SGI environmental THE SOURCE GROUP, INC.

May 21, 2013

Mr. Sunny Tong
Westlake Development Partners, LLC
520 El Camino, 9th Floor
San Mateo CA 94402

Subject: **LIMITED SUBSURFACE INVESTIGATION REPORT**
1696 Martinez Street
San Leandro, California
For Westlake Development

Dear Mr. Tong:

The Source Group, Inc. (SGI) prepared this *Limited Subsurface Investigation Report* (LSI Report) to present the results of the environmental investigation activities conducted on Martinez Street and Thornton Avenue in front of 1696 Martinez Street in San Leandro, California (the Site; Figure 1). The LSI was conducted by SGI in 2012 on behalf of Bridge Housing Corporation (BHC) to provide additional environmental information as part of a potential real estate transaction, which did not occur. In an April 26, 2013 email, Robert Stevenson of BHC confirmed SGI could finalize this LSI Report for Westlake Development Partners (WDP). SGI understands WDP intends to redevelop the Site in to an asphalt-covered parking lot. The following summarizes the site background, scope of work, analytical results and findings, and conclusion.

SITE BACKGROUND

The Site consists of an undeveloped, approximately 6,400 square foot triangular-shaped property located San Leandro, California (Figure 1). The property is bounded by Martinez Street to the west, Thornton Street to the south, a railroad easement and the BART tracks beyond to the east. Based on a review of investigation reports prepared for nearby sites, the interpreted groundwater flow direction in the area of the Site is to the west and southwest toward San Francisco Bay. Previous environmental assessment activities have been conducted at the Site to assess potential environmental impacts. The findings of the prior assessment did not identify significant environmental concerns. The assessment activities included the following:

ENVIRONMENTAL RISK SPECIALTIES (ERS) – MAY 2009[1]

The work performed by ERS in May 2009 included collection of soil samples from twelve soil borings (B-1 through B-12) at the Site to characterize general soil quality at the Site and evaluate if soil conditions exist that would result in undue regulatory scrutiny. The Site was reportedly used as a distribution facility that operated gasoline and diesel fuel above ground tanks. Soil samples were collected from depths ranging from 8.0 to 12 feet below ground surface (bgs) and submitted to an analytical laboratory for potential constituents of concerns.

[1] ERS, 2009. Revised Phase II Subsurface Investigation Report. 1696 Martinez Street, San Leandro, California. June 15.

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Soil samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg), TPH as diesel (TPHd), and TPH as motor oil (TPHmo), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), methyl-tertiary-butyl-ether (MTBE), 17 California Assessment Manual (CAM 17) metals, and polychlorinated biphenyls (PCBs).

ERS concluded the analytical results for metals were indicative of naturally occurring background concentrations. PCBs were not reported above the laboratory reporting limits. The analytical results from these samples indicated the presence of residual TPH impacts in shallow soil in isolated areas of the Site. In the June 15, 2009 report, ERS concluded that the TPH concentrations reported were localized, relatively minor, will naturally degrade, and no remediation was warranted. ERS also recommended the report be submitted to the Alameda County Environmental Health should regulatory closure be pursued for the Site.

SCOPE OF WORK

Based on this review of the previous investigation findings for the Site, a limited shallow groundwater investigation was proposed to confirm groundwater beneath the Site had not been impacted by the previously identified impacts in shallow soil.

Access to the Site was not granted by the property owner, therefore, to address these potential data gaps, grab groundwater were collected from five borings along the perimeter of the Site As shown on Figure 2, three borings were completed along Martinez Street and two borings were completed along Thornton Street.

PREFIELD AND PERMITTING ACTIVITIES

SGI acquired a drilling permit for the nine borings from Alameda County Public Works Agency (ACPWA). The permit is included as Appendix A. Prior to performing the field work, SGI prepared a Site-specific Health and Safety Plan (HASP) covering the proposed field activities. The HASP complies with Federal Occupational Safety and Health Administration (OSHA) regulations (29 CFR, Section 1910.120). Before mechanical drilling activities were conducted, Underground Service Alert (USA) was notified to mark the locations of potential underground utilities in the vicinity of the proposed borings. In addition, a private subsurface utility locating contractor was retained to identify the potential locations of underground utilities not addressed by the USA mark-out.

GRAB GROUNDWATER SAMPLING

Boring Locations: On March 21, 2012, Vironex, Inc. of Martinez, California advanced five direct-push borings to a total depth of 35 feet bgs using a direct-push rig. Three of the soil borings (SGI-1 through SGI-3) were advanced along Martinez Street and two soil borings were advanced along Thornton Street (Figure 2).

Concrete Coring and Hand Augering: Prior to advancing the borings, the ground surface material (concrete and asphalt) was cored to gain access to the underlying soil. The upper five feet of soil was hand cleared to evaluate the potential presence of underground utilities.

Soil Logging and Field Screening: Soils were logged for stratigraphic information using the Unified Soil Classification System (Appendix B). In addition, the soil cores were evaluated for visual staining and odor. No evidence of staining or odor was observed.

Groundwater Sampling: Grab groundwater samples were collected by removing the direct-push rods and installing schedule 40 PVC casing with two feet of 0.010-inch machined slot screen at the bottom of the borehole. The groundwater samples were collected using disposable plastic tubing equipped with a check valve.

Sample Handling: Groundwater samples were collected in HCL-preserved, 40-milliliter glass volatile organic analysis (VOA) vials with Teflon-lined septum caps, unpreserved 1-liter glass amber bottles, and unpreserved 250-milliliter plastic containers. The sample containers were labeled, placed in plastic bags, and stored on ice for transportation to the analytical laboratory. Standard chain-of-custody procedures are followed.

Decontamination Activities: Direct-push rods and sampling implements associated with the investigation were decontaminated between each boring. Disposable sampling equipment was replaced between each sampling point.

Borehole Backfilling: Following completion of sampling activities, the borings were backfilled with neat-cement grout under supervision of the ACPWA grout inspector. The borings were capped with a neat-cement and concrete mixture.

Soil Cutting Handling: Soil cuttings produced during Site activities were temporarily stored on-site in a clean, properly-labeled, California Department of Transportation (DOT) approved container pending characterization and disposal at an appropriate facility.

LABORATORY ANALYSIS

The samples were submitted to Kiff Analytical of Davis, California for analysis. As summarized on Tables 1 and 3, groundwater samples were analyzed for the following:

- TPHd and TPHmo by United States Environmental Protection Agency (USEPA) Method 8015M with silica gel cleanup;
- TPHg, BTEX compounds, MTBE, and other volatile organic compounds (VOCs) by USEPA Method 8260B;
- CAM 17 Metals by USEPA Method 6010B; and
- Semi-volatile organic compounds (SVOCs) by USEPA Method 8082.

ANALYTICAL RESULTS AND FINDINGS

Groundwater was encountered at each boring location at approximately 28 to 30 feet bgs. Grab groundwater samples were collected from each soil boring location at approximately 30 to 35 feet bgs. A summary of the analytical results include the following:

TPH Compounds

- TPHd was reported in three of the five samples collected (SGI-1, SGI-3, and SGI-5) at concentrations ranging from 61 micrograms per liter (µg/L) to 160 µg/L;
- TPHmo was reported in three of the five samples collected (SGI-1, SGI-3, and SGI-5) at concentrations ranging from 100 µg/L to 370 µg/L;
- The highest TPH concentrations were found in the sample collected from SGI-1 which yielded TPHd at 160 µg/L and TPHmo at 370 µg/L; and
- TPHg was not reported at concentrations above the laboratory method detection limit (LMDL).

Volatile Organic Compounds

- Toluene and chloroform were detected in four of the five samples (SGI-2, SGI-3, SGI-4, and SGI-5) at maximum concentrations of 0.80 µg/L and 5.7 µg/L, respectively;
- Methanol was detected in one of the five samples (SGI-4) at a concentration of 52 µg/L;
- Ethanol was detected in one of the five samples (SGI-5) at a concentration of 19 µg/L; and
- No MTBE or other VOCs were reported at or above the corresponding LMDL values.

Semi-volatile Organic Compounds

- There were no SVOCs reported at or above the corresponding LMDL values.

CAM 17 Metals

- Barium was detected in each of the five samples collected at a maximum concentration of 110 µg/L;
- Molybdenum was detected in each of the five samples collected at a maximum concentration of 19 µg/L; and
- Nickel was detected in each of the five samples collected at concentrations ranging from 9.8 to 22 µg/L.

CONCLUSION

The findings of this investigation indicate the following:

- Low concentrations of TPHd and TPHmo were reported in groundwater immediately downgradient of the Site;
- Low concentrations of toluene, chloroform, methanol, and ethanol were reported in groundwater immediately downgradient of the Site;
- Barium, molybdenum, and nickel were reported at concentrations consistent with regional background levels.

The TPH impacts identified during the 2009 ERS investigation were found in soil samples collected at a depth of 2.0 feet or less. TPHd was detected in one of the five shallow soil samples analyzed in 2009 at a concentration of 8.69 mg/kg. TPHg was detected in one of the five shallow soil samples analyzed in 2009 at a concentration of 578 mg/kg. Deeper samples collected from the same boring locations contained decreasing to non-detectable concentrations of TPH suggesting the impacts did not extend vertically below 3 feet bgs.

During the LSI activities presented in this Report groundwater was encountered beneath the Site at approximately 30 feet bgs. Maximum concentrations of TPHd and TPHmo in groundwater immediately downgradient of the Site were 160 and 370 μg/L, respectively. These concentrations are minor when compared to residual TPH concentrations in groundwater from regional TPH impacts at nearby sites, such as San Leandro Crossings property located at 1333 Martinez Street, immediately west of the Site across Martinez Street (Iris Environmental, 2010[2]).

A review of documents prepared for the San Leandro Crossings site indicate the lead regulatory oversight agency has approved case closure with resdiual TPH concentrations in groundwater at least one order of magnitude higher than those found beneath the Site during this LSI. Therefore, the minor TPH impacts found during this LSI will not likely warrant remedial actions prior to Site closure, assuming the same regulatory agency is involved. SGI recommends contacting the Regional Water Quality Control Board to confirm this. In the absence of a primary residual hydrocarbon source at the Site, the limited TPH impacts in groundwater detected during this LSI are expected to naturally attenuate with time.

DISCLAIMER

SGI has prepared this LSI Report based on information collected from observations made during field activities and from reasonably ascertainable information obtained from governing public agencies and private sources.

This LSI Report is not definitive and should not be assumed to be a complete or specific definition of the conditions above or below grade. Information in this Report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes. SGI makes no representation or warranty that the past or current operations at the Subject Property are or have been in compliance with all applicable Federal, State and local laws, regulations and codes.

Regardless of the findings stated in this Report, SGI is not responsible for consequences or conditions arising from facts that were concealed, withheld, or not fully disclosed at the time the assessment was conducted.

This Report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

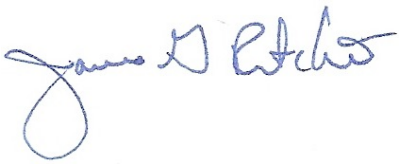
[2] Iris Environmental, 2010. Remdial Action Plan, San Leandro Crossing (Focus Area), San Leandro, CA. January 27.

CLOSING

SGI appreciates the opportunity to support Westlake Development Partners on this project. Should you have any questions or require additional information, please call us at (925) 951-6375.

Sincerely,

The Source Group, Inc.



Serene Daro
Project Scientist

James G. Ritchie, P.G.
Principal Geologist

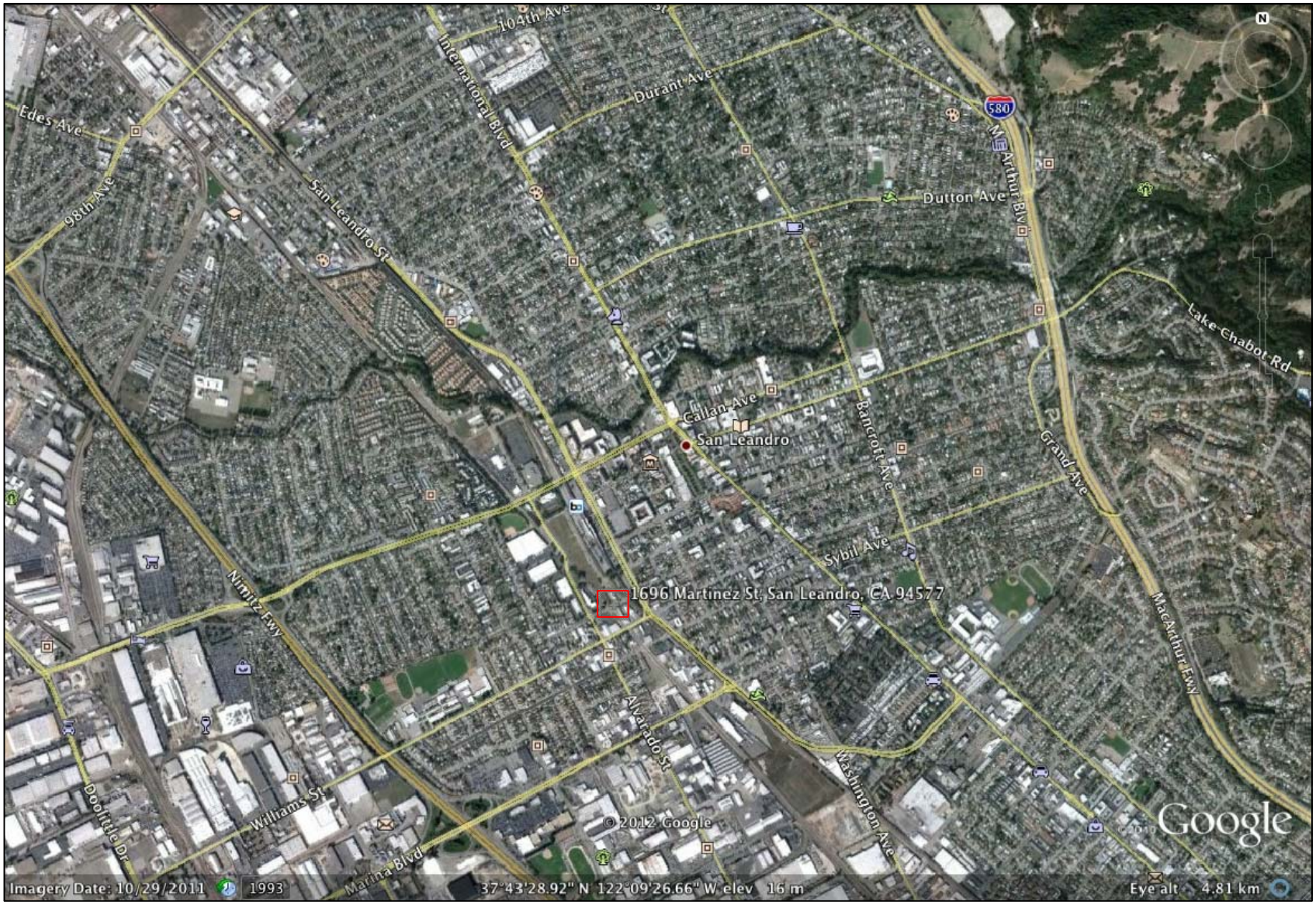
ATTACHMENTS

Figure 1 – Site Location Map
Figure 2 – Site Plan

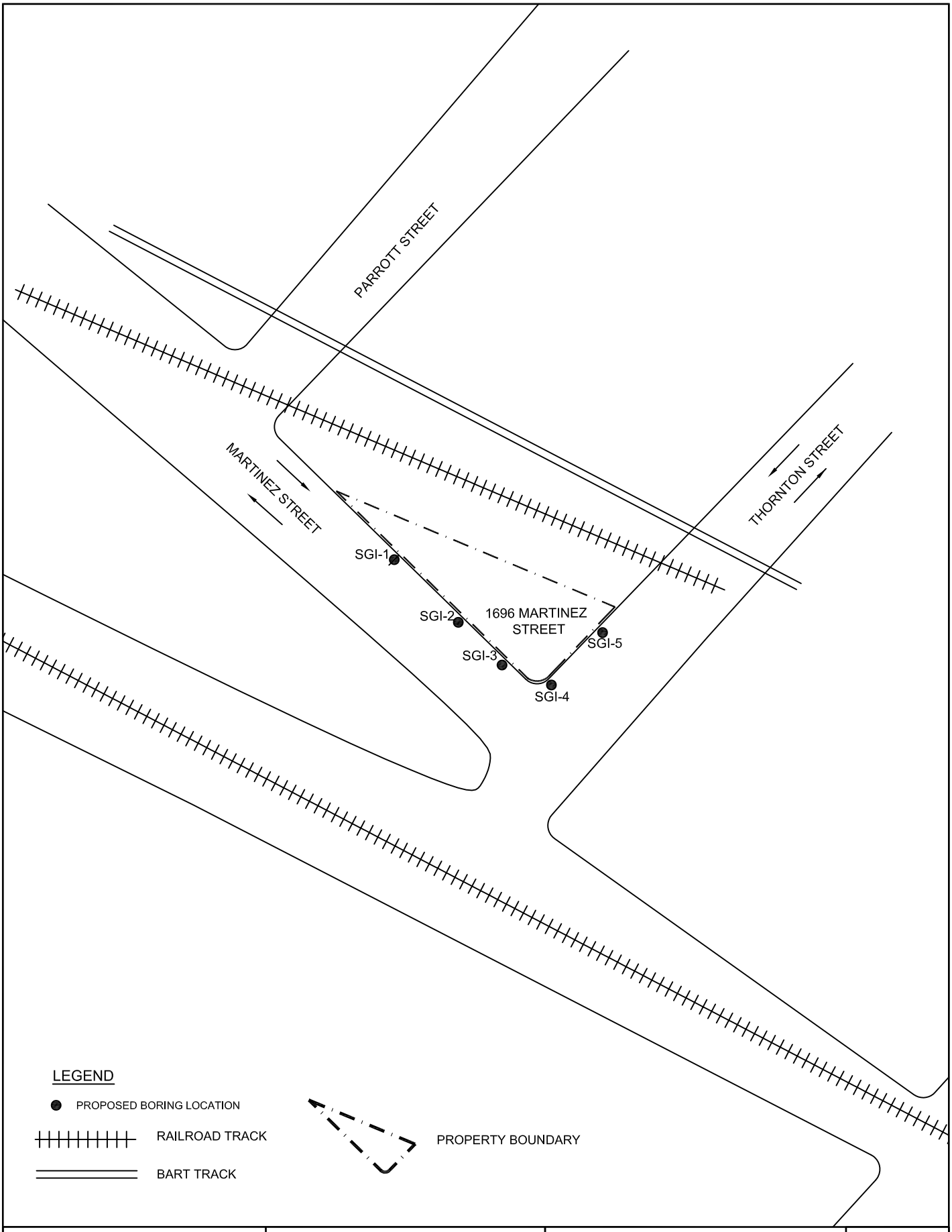
Table 1 – Grab Groundwater Analytical Results – TPH and VOCs
Table 2 – Grab Groundwater Analytical Results – Metals
Table 3 – Grab Groundwater Analytical Results – SVOCs

Appendix A – ACPWA Boring Permit
Appendix B – Soil Boring Logs
Appendix C – Analytical Laboratory Reports

FIGURES



SGI environmental THE SOURCE GROUP, INC. 3478 BUSKIRK AVENUE, SUITE 100 PLEASANT HILL, CA 94523	BRIDGE HOUSING 1696 MARTINEZ STREET OAKLAND, CALIFORNIA			SITE LOCATION MAP	FIGURE 1
	PROJECT NO. 01-BHC-001	DATE 04/10/12	DR.BY: SD	APP. BY: SD	



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BRIDGE HOUSING CORPORATION
1696 MARTINEZ STREET
SAN LEANDRO, CA

SITE PLAN

PROJECT NO.	DATE	DR.BY:	APP. BY:
012-BHC-001	03/07/12	ZA	SD

0 100 200
HORIZONTAL SCALE IN FEET

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FIGURE 2

TABLES

Table 1
Groundwater Analytical Results - TPH and VOCs
Bridge Housing Corporation
1696 Martinez Street
San Leandro, California

	Sample Results				
Client Sample I.D.	**SGI-1**	**SGI-2**	**SGI-3**	**SGI-4**	**SGI-5**
Date Sampled	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Analytes					
TPH as Diesel (w/Silicia Gel)	**160**	<50	**61**	<50	**83**
TPH as Motor Oil (w/Silica Gel)	**370**	<100	**100**	<100	**140**
TPH as Gasoline	<50	<50	<50	<50	<50
Methyl-t-butyl ether (MTBE)	<0.50	<0.50	<0.50	<0.50	<0.50
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	<0.50	<0.50
Ethyl-t-butyl ether (ETBE)	<0.50	<0.50	<0.50	<0.50	<0.50
Tert-amyl methyl ether (TAME)	<0.50	<0.50	<0.50	<0.50	<0.50
Tert-Butanol	<0.50	<5.0	<5.0	<5.0	<5.0
Methanol	<50	<50	<50	**52**	<50
Ethanol	<5.0	<5.0	<5.0	<5.0	**19**
Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<20	<20	<20	<20	<20
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	<0.50	**5.7**	**2.5**	**2.6**	**2.6**
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	<0.50	**0.68**	**0.56**	**0.69**	**0.8**
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1
Groundwater Analytical Results - TPH and VOCs
Bridge Housing Corporation
1696 Martinez Street
San Leandro, California

	Sample Results				
Client Sample I.D.	**SGI-1**	**SGI-2**	**SGI-3**	**SGI-4**	**SGI-5**
Date Sampled	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Analytes					
P,M-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0
O-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<0.50	<0.50	<0.50	<0.50	<0.50
Isopropyl benzene	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50
2+4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50
p-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:
ug/L = micrograms per liter
< = not detected above the method reporting limit

Table 2
Groundwater Analytical Results - Metals
Bridge Housing Corporation
1696 Martinez Street
San Leandro, California

	Sample Results				
Client Sample I.D.	**SGI-1**	**SGI-2**	**SGI-3**	**SGI-4**	**SGI-5**
Date Sampled	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Analytes					
Antimony	<0.015	<0.015	<0.015	<0.015	<0.015
Arsenic	<0.015	<0.015	<0.015	<0.015	<0.015
Barium	**0.1**	**0.098**	**0.1**	**0.1**	**0.11**
Beryllium	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Copper	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lead	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum	**0.017**	**0.016**	**0.016**	**0.019**	**0.015**
Nickel	**0.01**	**0.0098**	**0.022**	**0.019**	**0.014**
Selenium	<0.015	<0.015	<0.015	<0.015	<0.015
Silver	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Thallium	<0.015	<0.015	<0.015	<0.015	<0.015
Vanadium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc	<0.010	<0.010	<0.010	<0.010	<0.010
Mercury	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

Notes:
mg/L = milligrams per liter
< = not detected above the method reporting limit

Table 3
Groundwater Analytical Results - SVOCs
Bridge Housing Corporation
1696 Martinez Street
San Leandro, California

	Sample Results				
Client Sample I.D.	**SGI-1**	**SGI-2**	**SGI-3**	**SGI-4**	**SGI-5**
Date Sampled	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Analytes					
Acenaphthene	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND
Aniline	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND
Azobenzene	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND
Benzo (a) Anthracene	ND	ND	ND	ND	ND
Benzo (a) Pyrene	ND	ND	ND	ND	ND
Benzo (b) Fluoranthene	ND	ND	ND	ND	ND
Benzo (g,h,i) Perylene	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	ND	ND	ND	ND	ND
Benzoic Acid	ND	ND	ND	ND	ND
Benzyl Alcohol	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane	ND	ND	ND	ND	ND
Bis(2-Chloroethyl) Ether	ND	ND	ND	ND	ND
Bis(2-Chloroisopropyl) Ether	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl) Phthalate	ND	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	ND	ND	ND	ND	ND
4-Chloro-3-Methylphenol	ND	ND	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenyl Ether	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND
Di-n-Butyl Phthalate	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	ND	ND	ND	ND	ND
Dibenz (a,h) Anthracene	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND
Diethyl Phthalate	ND	ND	ND	ND	ND
Dimethyl Phthalate	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND
4,6-Dinitro-2-Methylphenol	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) Pyrene	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND	ND	ND
1-Methylnaphthalene	ND	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results - SVOCs
Bridge Housing Corporation
1696 Martinez Street
San Leandro, California

	Sample Results				
Client Sample I.D.	**SGI-1**	**SGI-2**	**SGI-3**	**SGI-4**	**SGI-5**
Date Sampled	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**	**3/21/2012**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Analytes					
3/4-Methylphenol	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND
Pyridine	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND

Notes:
ug/L = micrograms per liter
ND = not detected above the method reporting limit

APPENDIX A

ACWD Boring Permit

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/01/2012 By jamesy

Permit Numbers: W2012-0152
Permits Valid from 03/20/2012 to 03/22/2012

Application Id: 1330558733781 **City of Project Site:** San Leandro
Site Location: Martinez Street and Thornton Avenue in San Leandro
Project Start Date: 03/20/2012 **Completion Date:** 03/22/2012
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: The Source Group, Inc. - Serene Daro **Phone:** 925-285-9393
3478 Buskirk Avenue, Pleasant Hill, CA 94523
Property Owner: City of San Leandro **Phone:** --
835 E. 14th Street, San Leandro, CA 94577
Client: Joe McCarthy **Phone:** --
345 Spear Street, San Francisco, CA 94105

Total Due: $265.00
Receipt Number: WR2012-0066 **Total Amount Paid:** $265.00
Payer Name : Serene G Daro Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 5 Boreholes
Driller: Vironex - Lic #: 705927 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2012-0152	03/01/2012	06/18/2012	5	2.00 in.	40.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and

coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B

Soil Boring Logs

THE SOURCE GROUP, INC.

BORING/WELL ID:

SGI-1

PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA	**Project No.:** 012-BHC-001	
BORING LOCATION (AT SITE):	Martinez Street - 5 feet from east curb	**Logged By:** Serene Daro	
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	3/21/12 9:00	**FINISH DATE/ TIME**	3/21/12 9:55
FIRST WATER (BGS):	~28' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
	0				0		Asphalt	
					1		Sandy silt with gravel (ML), reddish brown, dry, loose.	
					2			
					3			
	0				4			
					5		Clayey sand (SC), reddish brown, moist, medium plasticity, fine sand.	
					6			
					7			
					8			
					9			
	0				10			
					11		Coarse sand.	
					12			
					13			
	0				14		Sandy clay (CL), dark reddish brown, moist, stiff, medium plasticity.	
					15			
					16			
					17			
					18			
					19			
					20			

THE SOURCE GROUP, INC.			BORING/WELL ID: **SGI-1**
PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA		**Project No.:** 012-BHC-001
BORING LOCATION (AT SITE):	Martinez Street - 5 feet from east curb		**Logged By:** Serene Daro
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	3/21/12 9:00	**FINISH DATE/ TIME**	3/21/12 9:55
FIRST WATER (BGS):	~28' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
	0				20			
					21			
					22			
					23			
					24			
	0				25		Clayey sand (SC), reddish brown, moist, fine to coarse sand.	
					26			
					27			
					28			
					29			
	0				30			
					31			
					32		Clayey gravel with sand (GC), reddish brown, wet, gravel up to 1" and subangular.	
					33			
	0				34			
					35		**Total Depth 35' bgs**	
					36			
					37			
					38			
					39			
					40			

THE SOURCE GROUP, INC.			BORING/WELL ID: **SGI-2**
PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA		**Project No.:** 012-BHC-001
BORING LOCATION (AT SITE):	Martinez Street - 5 feet from east curb		**Logged By:** Serene Daro
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	3/21/12 10:00	**FINISH DATE/ TIME**	3/21/12 10:25
FIRST WATER (BGS):	~30' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0		Asphalt	
	0						Gravel (GP), fill, dry, loose, gravels up to 2".	
					1			
							Silty sand with gravel and clay (SM), reddish brown, moist, gravels up to 1".	
					2			
					3			
					4			
	0							
					5		Sandy clay (CL), dark reddish brown, moist, stiff, medium plasticity.	
					6			
					7			
					8			
					9			
	0							
					10			
					11		More dense, dark reddish brown.	
					12			
					13			
					14			
	0				15			
					16			
					17			
					18		Increasing sand.	
					19			
					20			

THE SOURCE GROUP, INC.			BORING/WELL ID: **SGI-2**
PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA		**Project No.:** 012-BHC-001
BORING LOCATION (AT SITE):	Martinez Street - 5 feet from east curb		**Logged By:** Serene Daro
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	
START DATE/ (TIME):	3/21/12 10:00	**FINISH DATE/ TIME**	3/21/12 10:25
FIRST WATER (BGS):	~30' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
	0				20			
					21			
					22			
					23			
	0				24			
					25		Clay (CL), reddish brown, moist, medium plasticity.	
					26			
					27			
					28			
	0				29			
					30		Sandy Clay (CL), light reddish brown, moist, medium plasticity, fine to coarse sand.	
					31			
					32			
					33		Well graded gravel with sand (GW), reddish brown, wet, loose.	
	0				34			
					35		**Total Depth 35' bgs**	
					36			
					37		No odor or staining present.	
					38			
					39			
					40			

THE SOURCE GROUP, INC.

BORING/WELL ID:

SGI-3

PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA		**Project No.:** 012-BHC-001
BORING LOCATION (AT SITE):	Martinez Street - 5 feet from east curb		**Logged By:** Serene Daro
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	3/21/12 11:45	**FINISH DATE/ TIME**	3/21/12 12:30
FIRST WATER (BGS):	~30' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0		Asphalt	
	0						Gravelly silt with sand (ML), dark brown, dry, loose, gravels up to 1".	
					1			
					2			
					3			
					4			
	0				5		Clayey sand (SC), reddish brown, moist, medium plasticity, coarse sand.	
					6			
					7		Sandy clay (CL), yellowish brown, soft, medium plasticity.	
					8			
					9			
	0				10			
					11			
					12			
					13			
					14			
	0				15		dense, dark reddish brown.	
					16			
					17			
					18		Clayey sand (SC), reddish brown, moist, fine to coarse sand.	
					19			
					20			

THE SOURCE GROUP, INC.			BORING/WELL ID: **SGI-3**
PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA		**Project No.:** 012-BHC-001
BORING LOCATION (AT SITE):	Martinez Street - 5 feet from east curb		**Logged By:** Serene Daro
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	3/21/12 11:45	**FINISH DATE/ TIME**	3/21/12 12:30
FIRST WATER (BGS):	~30' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
	0				20			
					21		Sandy clay (CL), reddish brown, moist, soft, medium plasticity, fine sand.	
					22			
					23			
					24			
	0				25		Clay (CL), reddish brown, mosit.	
					26			
					27			
					28			
	0				29			
					30			
					31		Well graded gravel with sand fines (GW), reddish brown, wet, loose.	
					32			
					33		Soft clay (CL), light brown, wet, medium plasticity.	
	0				34			
					35		**Total Depth 35' bgs**	
					36			
					37		No odor or staining present.	
					38			
					39			
					40			

THE SOURCE GROUP, INC.

BORING/WELL ID:

SGI-4

PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA		**Project No.:** 012-BHC-001
BORING LOCATION (AT SITE):	Thornton Street - 5 feet from north curb		**Logged By:** Serene Daro
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	3/21/12 12:40	**FINISH DATE/ TIME**	3/21/2012 13:10:00 PM
FIRST WATER (BGS):	~30' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
					0		Asphalt	
	0				1		Gravelly silt with sand (ML), dark brown, dry, loose, gravels up to 1".	
					2		Silty Sand (SM), reddish brown, moist,loose, coarse sand.	
					3			
	0				4			
					5			
					6		Sandy clay (CL), yellowish brown, soft, medium plasticity.	
					7			
					8			
					9			
	0				10			
					11			
					12			
					13			
					14			
	0				15		.	
					16			
					17			
					18		Clayey sand (SC), reddish brown, moist, fine to coarse sand.	
					19			
					20			

THE SOURCE GROUP, INC.			BORING/WELL ID: **SGI-4**
PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA		**Project No.:** 012-BHC-001
BORING LOCATION (AT SITE):	Thornton Street - 5 feet from north curb		**Logged By:** Serene Daro
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	3/21/12 12:40	**FINISH DATE/ TIME**	3/21/2012 13:10:00 PM
FIRST WATER (BGS):	~30' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
	0				20			
					21			
					22		Sandy clay (CL), reddish brown, moist, soft, medium plasticity, fine sand.	
					23			
					24			
	0				25			
					26			
					27			
					28			
	0				29			
					30			
					31		Well-graded gravel with sand (GW), reddish brown, wet, loose.	
					32			
					33		Soft clay (CL), light reddish brown, wet, medium plasticity.	
	0				34			
					35		**Total Depth 35' bgs**	
					36			
					37		No odor or staining present.	
					38			
					39			
					40			

THE SOURCE GROUP, INC.

BORING/WELL ID:

SGI-5

PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA	**Project No.:** 012-BHC-001	
BORING LOCATION (AT SITE):	Thornton Street - 5 feet from north curb	**Logged By:** Serene Daro	
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	3/21/2012 13:20:00 AM	**FINISH DATE/ TIME**	3/21/2012 14:00:00 PM
FIRST WATER (BGS):	~30' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
	0				0		Asphalt	
					1		Gravelly silt (ML), dark brown, dry, loose, gravels up to 2".	
					2		Silty sand (SM), reddish brown, moist, coarse to fine sand.	
					3			
	0				4			
					5		Sandy clay (CL), yellowish brown, soft, medium plasticity.	
					6			
					7			
					8			
	0				9			
					10			
					11			
					12		coarse sand	
					13			
	0				14			
					15			
					16			
					17			
					18		Clayey sand (SC), reddish brown, moist, fine to coarse sand.	
	0				19			
					20			

THE SOURCE GROUP, INC.			BORING/WELL ID: **SGI-5**
PROJECT NAME AND ADDRESS:	Bridge Housing - 1696 Martinez Street, San Leandro, CA		**Project No.:** 012-BHC-001
BORING LOCATION (AT SITE):	Martinez Street - 50' from E. curb.		**Logged By:** Serene Daro
CONTRACTOR AND EQUIPMENT:	Vironex, Geoprobe		
SAMPLING METHOD:	DPT	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	3/21/2012 13:20:00 AM	**FINISH DATE/ TIME**	3/21/2012 14:00:00 PM
FIRST WATER (BGS):	~30' bgs	**STABILIZED WATER LEVEL:**	N/A
SURFACE ELEVATION:	N/A	**CASING TOP ELEVATION:**	N/A
TOTAL BORING DEPTH(S):	35' bgs	**BORING DIAMETER/DEPTH:**	2", 35' bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
	0				20		Sandy clay (CL), reddish brown, moist, soft, medium plasticity, fine sand.	
					21			
					22			
					23			
	0				24			
					25			
					26			
					27			
					28			
	0				29			
					30			
					31			
					32		Well graded gravel with sand fines (GW), reddish brown, wet, loose.	
					33			
					34			
	0						Soft clay (CL), light brown, wet, medium plasticity.	
					35		**Total Depth 35' bgs**	
					36			
					37		No odor or staining present.	
					38			
					39			
					40			

APPENDIX C

Analytical Laboratory Reports

Report Number : 80750
Date : 03/29/2012

Laboratory Results

Serene Daro
The Source Group, Inc.
3478 Buskirk Avenue, Suite 100
Pleasant Hill, CA 94523

Subject : 5 Water Samples
Project Name : Bridge Housing
Project Number : 01-BHC-001
P.O. Number : 01-BHC-001

Dear Ms. Daro,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy G. Turpen

Troy Turpen

Report Number : 80750

Date : 03/29/2012

Subject : 5 Water Samples
Project Name : Bridge Housing
Project Number : 01-BHC-001
P.O. Number : 01-BHC-001

Case Narrative

Samples SGI-1, SGI-2, SGI-3, SGI-4 and SGI-5 were filtered in the laboratory for metals analysis.

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Sample : **SGI-1** Matrix : Water Lab Number : 80750-01

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel (w/ Silica Gel)	**160**	50	ug/L	M EPA 8015	03/28/12 21:59
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Motor Oil (w/ Silica Gel)	**370**	100	ug/L	M EPA 8015	03/28/12 21:59
Octacosane (Silica Gel Surr)	106		% Recovery	M EPA 8015	03/28/12 21:59

Sample : **SGI-2** Matrix : Water Lab Number : 80750-02

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	03/28/12 22:28
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	03/28/12 22:28
Octacosane (Silica Gel Surr)	82.5		% Recovery	M EPA 8015	03/28/12 22:28

Sample : **SGI-3** Matrix : Water Lab Number : 80750-03

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel (w/ Silica Gel)	**61**	50	ug/L	M EPA 8015	03/28/12 22:57
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Motor Oil (w/ Silica Gel)	**100**	100	ug/L	M EPA 8015	03/28/12 22:57
Octacosane (Silica Gel Surr)	94.2		% Recovery	M EPA 8015	03/28/12 22:57

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Sample : **SGI-4** Matrix : Water Lab Number : 80750-04

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	03/28/12 23:26
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	03/28/12 23:26
Octacosane (Silica Gel Surr)	95.9		% Recovery	M EPA 8015	03/28/12 23:26

Sample : **SGI-5** Matrix : Water Lab Number : 80750-05

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel (w/ Silica Gel)	**83**	50	ug/L	M EPA 8015	03/28/12 23:56
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Motor Oil (w/ Silica Gel)	**140**	100	ug/L	M EPA 8015	03/28/12 23:56
Octacosane (Silica Gel Surr)	97.1		% Recovery	M EPA 8015	03/28/12 23:56

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-1**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-01

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	03/28/12 15:41
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	03/28/12 15:41
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	03/28/12 15:41
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	03/28/12 15:41
Tert-Butanol	< 5.0	5.0	ug/L	03/28/12 15:41
Methanol	< 50	50	ug/L	03/28/12 15:41
Ethanol	< 5.0	5.0	ug/L	03/29/12 11:52
TPH as Gasoline	< 50	50	ug/L	03/28/12 15:41
Dichlorodifluoromethane	< 0.50	0.50	ug/L	03/28/12 15:41
Chloromethane	< 0.50	0.50	ug/L	03/28/12 15:41
Vinyl Chloride	< 0.50	0.50	ug/L	03/28/12 15:41
Bromomethane	< 20	20	ug/L	03/28/12 15:41
Chloroethane	< 0.50	0.50	ug/L	03/28/12 15:41
Trichlorofluoromethane	< 0.50	0.50	ug/L	03/28/12 15:41
1,1-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 15:41
Methylene Chloride	< 5.0	5.0	ug/L	03/28/12 15:41
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 15:41
1,1-Dichloroethane	< 0.50	0.50	ug/L	03/28/12 15:41
2,2-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 15:41
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 15:41
Chloroform	< 0.50	0.50	ug/L	03/28/12 15:41
Bromochloromethane	< 0.50	0.50	ug/L	03/28/12 15:41
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	03/28/12 15:41
1,1-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 15:41
1,2-Dichloroethane	< 0.50	0.50	ug/L	03/28/12 15:41
Carbon Tetrachloride	< 0.50	0.50	ug/L	03/28/12 15:41
Benzene	< 0.50	0.50	ug/L	03/28/12 15:41
Trichloroethene	< 0.50	0.50	ug/L	03/28/12 15:41
1,2-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 15:41
Bromodichloromethane	< 0.50	0.50	ug/L	03/28/12 15:41
Dibromomethane	< 0.50	0.50	ug/L	03/28/12 15:41
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 15:41
Toluene	< 0.50	0.50	ug/L	03/28/12 15:41

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-1**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-01

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 15:41
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	03/28/12 15:41
1,3-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 15:41
Tetrachloroethene	< 0.50	0.50	ug/L	03/28/12 15:41
Dibromochloromethane	< 0.50	0.50	ug/L	03/28/12 15:41
1,2-Dibromoethane	< 0.50	0.50	ug/L	03/28/12 15:41
Chlorobenzene	< 0.50	0.50	ug/L	03/28/12 15:41
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/28/12 15:41
Ethylbenzene	< 0.50	0.50	ug/L	03/28/12 15:41
P,M-Xylene	< 1.0	1.0	ug/L	03/28/12 15:41
O-Xylene	< 0.50	0.50	ug/L	03/28/12 15:41
Styrene	< 0.50	0.50	ug/L	03/28/12 15:41
Isopropyl benzene	< 0.50	0.50	ug/L	03/28/12 15:41
Bromoform	< 0.50	0.50	ug/L	03/28/12 15:41
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/28/12 15:41
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	03/28/12 15:41
n-Propylbenzene	< 0.50	0.50	ug/L	03/28/12 15:41
Bromobenzene	< 0.50	0.50	ug/L	03/28/12 15:41
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	03/28/12 15:41
2+4-Chlorotoluene	< 1.0	1.0	ug/L	03/28/12 15:41
tert-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 15:41
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	03/28/12 15:41
sec-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 15:41
p-Isopropyltoluene	< 0.50	0.50	ug/L	03/28/12 15:41
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 15:41
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 15:41
n-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 15:41
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 15:41
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	03/28/12 15:41
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	03/28/12 15:41
Hexachlorobutadiene	< 0.50	0.50	ug/L	03/28/12 15:41
Naphthalene	< 0.50	0.50	ug/L	03/28/12 15:41
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	03/28/12 15:41
1,2-Dichloroethane-d4 (Surr)	99.0		% Recovery	03/28/12 15:41

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-1**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-01

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
4-Bromofluorobenzene (Surr)	97.7		% Recovery	03/28/12 15:41
Toluene - d8 (Surr)	98.8		% Recovery	03/28/12 15:41

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-2**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-02

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	03/28/12 16:17
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	03/28/12 16:17
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	03/28/12 16:17
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	03/28/12 16:17
Tert-Butanol	< 5.0	5.0	ug/L	03/28/12 16:17
Methanol	< 50	50	ug/L	03/28/12 16:17
Ethanol	< 5.0	5.0	ug/L	03/29/12 12:25
TPH as Gasoline	< 50	50	ug/L	03/28/12 16:17
Dichlorodifluoromethane	< 0.50	0.50	ug/L	03/28/12 16:17
Chloromethane	< 0.50	0.50	ug/L	03/28/12 16:17
Vinyl Chloride	< 0.50	0.50	ug/L	03/28/12 16:17
Bromomethane	< 20	20	ug/L	03/28/12 16:17
Chloroethane	< 0.50	0.50	ug/L	03/28/12 16:17
Trichlorofluoromethane	< 0.50	0.50	ug/L	03/28/12 16:17
1,1-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 16:17
Methylene Chloride	< 5.0	5.0	ug/L	03/28/12 16:17
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 16:17
1,1-Dichloroethane	< 0.50	0.50	ug/L	03/28/12 16:17
2,2-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 16:17
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 16:17
Chloroform	**5.7**	0.50	ug/L	03/28/12 16:17
Bromochloromethane	< 0.50	0.50	ug/L	03/28/12 16:17
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	03/28/12 16:17
1,1-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 16:17
1,2-Dichloroethane	< 0.50	0.50	ug/L	03/28/12 16:17
Carbon Tetrachloride	< 0.50	0.50	ug/L	03/28/12 16:17
Benzene	< 0.50	0.50	ug/L	03/28/12 16:17
Trichloroethene	< 0.50	0.50	ug/L	03/28/12 16:17
1,2-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 16:17
Bromodichloromethane	< 0.50	0.50	ug/L	03/28/12 16:17
Dibromomethane	< 0.50	0.50	ug/L	03/28/12 16:17
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 16:17
Toluene	**0.68**	0.50	ug/L	03/28/12 16:17

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-2**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-02

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 16:17
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	03/28/12 16:17
1,3-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 16:17
Tetrachloroethene	< 0.50	0.50	ug/L	03/28/12 16:17
Dibromochloromethane	< 0.50	0.50	ug/L	03/28/12 16:17
1,2-Dibromoethane	< 0.50	0.50	ug/L	03/28/12 16:17
Chlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:17
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/28/12 16:17
Ethylbenzene	< 0.50	0.50	ug/L	03/28/12 16:17
P,M-Xylene	< 1.0	1.0	ug/L	03/28/12 16:17
O-Xylene	< 0.50	0.50	ug/L	03/28/12 16:17
Styrene	< 0.50	0.50	ug/L	03/28/12 16:17
Isopropyl benzene	< 0.50	0.50	ug/L	03/28/12 16:17
Bromoform	< 0.50	0.50	ug/L	03/28/12 16:17
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/28/12 16:17
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	03/28/12 16:17
n-Propylbenzene	< 0.50	0.50	ug/L	03/28/12 16:17
Bromobenzene	< 0.50	0.50	ug/L	03/28/12 16:17
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	03/28/12 16:17
2+4-Chlorotoluene	< 1.0	1.0	ug/L	03/28/12 16:17
tert-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 16:17
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	03/28/12 16:17
sec-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 16:17
p-Isopropyltoluene	< 0.50	0.50	ug/L	03/28/12 16:17
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:17
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:17
n-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 16:17
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:17
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	03/28/12 16:17
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:17
Hexachlorobutadiene	< 0.50	0.50	ug/L	03/28/12 16:17
Naphthalene	< 0.50	0.50	ug/L	03/28/12 16:17
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:17
1,2-Dichloroethane-d4 (Surr)	98.4		% Recovery	03/28/12 16:17

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-2**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-02

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
4-Bromofluorobenzene (Surr)	98.5		% Recovery	03/28/12 16:17
Toluene - d8 (Surr)	99.0		% Recovery	03/28/12 16:17

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-3**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-03

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	03/28/12 16:53
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	03/28/12 16:53
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	03/28/12 16:53
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	03/28/12 16:53
Tert-Butanol	< 5.0	5.0	ug/L	03/28/12 16:53
Methanol	< 50	50	ug/L	03/28/12 16:53
Ethanol	< 5.0	5.0	ug/L	03/28/12 16:53
TPH as Gasoline	< 50	50	ug/L	03/28/12 16:53
Dichlorodifluoromethane	< 0.50	0.50	ug/L	03/28/12 16:53
Chloromethane	< 0.50	0.50	ug/L	03/28/12 16:53
Vinyl Chloride	< 0.50	0.50	ug/L	03/28/12 16:53
Bromomethane	< 20	20	ug/L	03/28/12 16:53
Chloroethane	< 0.50	0.50	ug/L	03/28/12 16:53
Trichlorofluoromethane	< 0.50	0.50	ug/L	03/28/12 16:53
1,1-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 16:53
Methylene Chloride	< 5.0	5.0	ug/L	03/28/12 16:53
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 16:53
1,1-Dichloroethane	< 0.50	0.50	ug/L	03/28/12 16:53
2,2-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 16:53
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 16:53
Chloroform	**2.5**	0.50	ug/L	03/28/12 16:53
Bromochloromethane	< 0.50	0.50	ug/L	03/28/12 16:53
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	03/28/12 16:53
1,1-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 16:53
1,2-Dichloroethane	< 0.50	0.50	ug/L	03/28/12 16:53
Carbon Tetrachloride	< 0.50	0.50	ug/L	03/28/12 16:53
Benzene	< 0.50	0.50	ug/L	03/28/12 16:53
Trichloroethene	< 0.50	0.50	ug/L	03/28/12 16:53
1,2-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 16:53
Bromodichloromethane	< 0.50	0.50	ug/L	03/28/12 16:53
Dibromomethane	< 0.50	0.50	ug/L	03/28/12 16:53
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 16:53
Toluene	**0.56**	0.50	ug/L	03/28/12 16:53

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-3**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-03

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 16:53
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	03/28/12 16:53
1,3-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 16:53
Tetrachloroethene	< 0.50	0.50	ug/L	03/28/12 16:53
Dibromochloromethane	< 0.50	0.50	ug/L	03/28/12 16:53
1,2-Dibromoethane	< 0.50	0.50	ug/L	03/28/12 16:53
Chlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:53
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/28/12 16:53
Ethylbenzene	< 0.50	0.50	ug/L	03/28/12 16:53
P,M-Xylene	< 1.0	1.0	ug/L	03/28/12 16:53
O-Xylene	< 0.50	0.50	ug/L	03/28/12 16:53
Styrene	< 0.50	0.50	ug/L	03/28/12 16:53
Isopropyl benzene	< 0.50	0.50	ug/L	03/28/12 16:53
Bromoform	< 0.50	0.50	ug/L	03/28/12 16:53
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/28/12 16:53
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	03/28/12 16:53
n-Propylbenzene	< 0.50	0.50	ug/L	03/28/12 16:53
Bromobenzene	< 0.50	0.50	ug/L	03/28/12 16:53
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	03/28/12 16:53
2+4-Chlorotoluene	< 1.0	1.0	ug/L	03/28/12 16:53
tert-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 16:53
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	03/28/12 16:53
sec-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 16:53
p-Isopropyltoluene	< 0.50	0.50	ug/L	03/28/12 16:53
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:53
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:53
n-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 16:53
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:53
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	03/28/12 16:53
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:53
Hexachlorobutadiene	< 0.50	0.50	ug/L	03/28/12 16:53
Naphthalene	< 0.50	0.50	ug/L	03/28/12 16:53
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	03/28/12 16:53
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	03/28/12 16:53

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-3**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-03

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
4-Bromofluorobenzene (Surr)	96.3		% Recovery	03/28/12 16:53
Toluene - d8 (Surr)	98.9		% Recovery	03/28/12 16:53

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-4**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-04

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	03/28/12 17:28
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	03/28/12 17:28
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	03/28/12 17:28
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	03/28/12 17:28
Tert-Butanol	< 5.0	5.0	ug/L	03/28/12 17:28
Methanol	**52**	50	ug/L	03/28/12 17:28
Ethanol	< 5.0	5.0	ug/L	03/29/12 12:57
TPH as Gasoline	< 50	50	ug/L	03/28/12 17:28
Dichlorodifluoromethane	< 0.50	0.50	ug/L	03/28/12 17:28
Chloromethane	< 0.50	0.50	ug/L	03/28/12 17:28
Vinyl Chloride	< 0.50	0.50	ug/L	03/28/12 17:28
Bromomethane	< 20	20	ug/L	03/28/12 17:28
Chloroethane	< 0.50	0.50	ug/L	03/28/12 17:28
Trichlorofluoromethane	< 0.50	0.50	ug/L	03/28/12 17:28
1,1-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 17:28
Methylene Chloride	< 5.0	5.0	ug/L	03/28/12 17:28
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 17:28
1,1-Dichloroethane	< 0.50	0.50	ug/L	03/28/12 17:28
2,2-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 17:28
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/28/12 17:28
Chloroform	**2.6**	0.50	ug/L	03/28/12 17:28
Bromochloromethane	< 0.50	0.50	ug/L	03/28/12 17:28
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	03/28/12 17:28
1,1-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 17:28
1,2-Dichloroethane	< 0.50	0.50	ug/L	03/28/12 17:28
Carbon Tetrachloride	< 0.50	0.50	ug/L	03/28/12 17:28
Benzene	< 0.50	0.50	ug/L	03/28/12 17:28
Trichloroethene	< 0.50	0.50	ug/L	03/28/12 17:28
1,2-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 17:28
Bromodichloromethane	< 0.50	0.50	ug/L	03/28/12 17:28
Dibromomethane	< 0.50	0.50	ug/L	03/28/12 17:28
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 17:28
Toluene	**0.69**	0.50	ug/L	03/28/12 17:28

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-4**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-04

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/28/12 17:28
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	03/28/12 17:28
1,3-Dichloropropane	< 0.50	0.50	ug/L	03/28/12 17:28
Tetrachloroethene	< 0.50	0.50	ug/L	03/28/12 17:28
Dibromochloromethane	< 0.50	0.50	ug/L	03/28/12 17:28
1,2-Dibromoethane	< 0.50	0.50	ug/L	03/28/12 17:28
Chlorobenzene	< 0.50	0.50	ug/L	03/28/12 17:28
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/28/12 17:28
Ethylbenzene	< 0.50	0.50	ug/L	03/28/12 17:28
P,M-Xylene	< 1.0	1.0	ug/L	03/28/12 17:28
O-Xylene	< 0.50	0.50	ug/L	03/28/12 17:28
Styrene	< 0.50	0.50	ug/L	03/28/12 17:28
Isopropyl benzene	< 0.50	0.50	ug/L	03/28/12 17:28
Bromoform	< 0.50	0.50	ug/L	03/28/12 17:28
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/28/12 17:28
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	03/28/12 17:28
n-Propylbenzene	< 0.50	0.50	ug/L	03/28/12 17:28
Bromobenzene	< 0.50	0.50	ug/L	03/28/12 17:28
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	03/28/12 17:28
2+4-Chlorotoluene	< 1.0	1.0	ug/L	03/28/12 17:28
tert-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 17:28
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	03/28/12 17:28
sec-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 17:28
p-Isopropyltoluene	< 0.50	0.50	ug/L	03/28/12 17:28
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 17:28
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 17:28
n-Butylbenzene	< 0.50	0.50	ug/L	03/28/12 17:28
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	03/28/12 17:28
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	03/28/12 17:28
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	03/28/12 17:28
Hexachlorobutadiene	< 0.50	0.50	ug/L	03/28/12 17:28
Naphthalene	< 0.50	0.50	ug/L	03/28/12 17:28
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	03/28/12 17:28
1,2-Dichloroethane-d4 (Surr)	97.1		% Recovery	03/28/12 17:28

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-4**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-04

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
4-Bromofluorobenzene (Surr)	96.8		% Recovery	03/28/12 17:28
Toluene - d8 (Surr)	99.2		% Recovery	03/28/12 17:28

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-5**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-05

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	03/29/12 04:16
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	03/29/12 04:16
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	03/29/12 04:16
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	03/29/12 04:16
Tert-Butanol	< 5.0	5.0	ug/L	03/29/12 13:30
Methanol	< 50	50	ug/L	03/29/12 04:16
Ethanol	**19**	5.0	ug/L	03/29/12 04:16
TPH as Gasoline	< 50	50	ug/L	03/29/12 04:16
Dichlorodifluoromethane	< 0.50	0.50	ug/L	03/29/12 04:16
Chloromethane	< 0.50	0.50	ug/L	03/29/12 04:16
Vinyl Chloride	< 0.50	0.50	ug/L	03/29/12 04:16
Bromomethane	< 20	20	ug/L	03/29/12 04:16
Chloroethane	< 0.50	0.50	ug/L	03/29/12 04:16
Trichlorofluoromethane	< 0.50	0.50	ug/L	03/29/12 04:16
1,1-Dichloroethene	< 0.50	0.50	ug/L	03/29/12 04:16
Methylene Chloride	< 5.0	5.0	ug/L	03/29/12 04:16
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/29/12 04:16
1,1-Dichloroethane	< 0.50	0.50	ug/L	03/29/12 04:16
2,2-Dichloropropane	< 0.50	0.50	ug/L	03/29/12 04:16
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/29/12 04:16
Chloroform	**2.6**	0.50	ug/L	03/29/12 04:16
Bromochloromethane	< 0.50	0.50	ug/L	03/29/12 04:16
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	03/29/12 04:16
1,1-Dichloropropene	< 0.50	0.50	ug/L	03/29/12 04:16
1,2-Dichloroethane	< 0.50	0.50	ug/L	03/29/12 04:16
Carbon Tetrachloride	< 0.50	0.50	ug/L	03/29/12 04:16
Benzene	< 0.50	0.50	ug/L	03/29/12 04:16
Trichloroethene	< 0.50	0.50	ug/L	03/29/12 04:16
1,2-Dichloropropane	< 0.50	0.50	ug/L	03/29/12 04:16
Bromodichloromethane	< 0.50	0.50	ug/L	03/29/12 04:16
Dibromomethane	< 0.50	0.50	ug/L	03/29/12 04:16
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/29/12 04:16
Toluene	**0.80**	0.50	ug/L	03/29/12 04:16

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-5**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-05

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/29/12 04:16
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	03/29/12 04:16
1,3-Dichloropropane	< 0.50	0.50	ug/L	03/29/12 04:16
Tetrachloroethene	< 0.50	0.50	ug/L	03/29/12 04:16
Dibromochloromethane	< 0.50	0.50	ug/L	03/29/12 04:16
1,2-Dibromoethane	< 0.50	0.50	ug/L	03/29/12 04:16
Chlorobenzene	< 0.50	0.50	ug/L	03/29/12 04:16
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/29/12 04:16
Ethylbenzene	< 0.50	0.50	ug/L	03/29/12 04:16
P,M-Xylene	< 1.0	1.0	ug/L	03/29/12 04:16
O-Xylene	< 0.50	0.50	ug/L	03/29/12 04:16
Styrene	< 0.50	0.50	ug/L	03/29/12 04:16
Isopropyl benzene	< 0.50	0.50	ug/L	03/29/12 04:16
Bromoform	< 0.50	0.50	ug/L	03/29/12 04:16
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/29/12 04:16
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	03/29/12 04:16
n-Propylbenzene	< 0.50	0.50	ug/L	03/29/12 04:16
Bromobenzene	< 0.50	0.50	ug/L	03/29/12 04:16
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	03/29/12 04:16
2+4-Chlorotoluene	< 1.0	1.0	ug/L	03/29/12 04:16
tert-Butylbenzene	< 0.50	0.50	ug/L	03/29/12 04:16
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	03/29/12 04:16
sec-Butylbenzene	< 0.50	0.50	ug/L	03/29/12 04:16
p-Isopropyltoluene	< 0.50	0.50	ug/L	03/29/12 04:16
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	03/29/12 04:16
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	03/29/12 04:16
n-Butylbenzene	< 0.50	0.50	ug/L	03/29/12 04:16
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	03/29/12 04:16
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	03/29/12 04:16
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	03/29/12 04:16
Hexachlorobutadiene	< 0.50	0.50	ug/L	03/29/12 04:16
Naphthalene	< 0.50	0.50	ug/L	03/29/12 04:16
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	03/29/12 04:16
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	03/29/12 04:16

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Sample : **SGI-5**

Project Name : **Bridge Housing**

Project Number : **01-BHC-001** Lab Number : 80750-05

Matrix : Water Sample Date :03/21/2012 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
4-Bromofluorobenzene (Surr)	98.0		% Recovery	03/29/12 04:16
Toluene - d8 (Surr)	98.6		% Recovery	03/29/12 04:16

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Sample : **SGI-1** Matrix : Water Lab Number : 80750-01

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 12:42
Arsenic, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 12:42
Barium, Dissolved	**0.10**	0.010	mg/L	EPA 6010B	03/28/12 12:42
Beryllium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 12:42
Cadmium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 12:42
Chromium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 12:42
Cobalt, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 12:42
Copper, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 12:42
Lead, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 12:42
Molybdenum, Dissolved	**0.017**	0.0050	mg/L	EPA 6010B	03/28/12 12:42
Nickel, Dissolved	**0.010**	0.0050	mg/L	EPA 6010B	03/28/12 12:42
Selenium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 12:42
Silver, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 12:42
Thallium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 12:42
Vanadium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 12:42
Zinc, Dissolved	< 0.010	0.010	mg/L	EPA 6010B	03/28/12 12:42
Mercury, Dissolved	< 0.00050	0.00050	mg/L	EPA 7470A	03/29/12 13:37

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Sample : **SGI-2** Matrix : Water Lab Number : 80750-02

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:00
Arsenic, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:00
Barium, Dissolved	**0.098**	0.010	mg/L	EPA 6010B	03/28/12 13:00
Beryllium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 13:00
Cadmium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 13:00
Chromium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:00
Cobalt, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:00
Copper, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:00
Lead, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:00
Molybdenum, Dissolved	**0.016**	0.0050	mg/L	EPA 6010B	03/28/12 13:00
Nickel, Dissolved	**0.0098**	0.0050	mg/L	EPA 6010B	03/28/12 13:00
Selenium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:00
Silver, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:00
Thallium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:00
Vanadium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:00
Zinc, Dissolved	< 0.010	0.010	mg/L	EPA 6010B	03/28/12 13:00
Mercury, Dissolved	< 0.00050	0.00050	mg/L	EPA 7470A	03/29/12 13:32

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Sample : **SGI-3** Matrix : Water Lab Number : 80750-03

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:04
Arsenic, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:04
Barium, Dissolved	**0.10**	0.010	mg/L	EPA 6010B	03/28/12 13:04
Beryllium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 13:04
Cadmium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 13:04
Chromium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:04
Cobalt, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:04
Copper, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:04
Lead, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:04
Molybdenum, Dissolved	**0.016**	0.0050	mg/L	EPA 6010B	03/28/12 13:04
Nickel, Dissolved	**0.022**	0.0050	mg/L	EPA 6010B	03/28/12 13:04
Selenium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:04
Silver, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:04
Thallium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:04
Vanadium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:04
Zinc, Dissolved	< 0.010	0.010	mg/L	EPA 6010B	03/28/12 13:04
Mercury, Dissolved	< 0.00050	0.00050	mg/L	EPA 7470A	03/29/12 13:38

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Sample : **SGI-4** Matrix : Water Lab Number : 80750-04

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:08
Arsenic, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:08
Barium, Dissolved	**0.10**	0.010	mg/L	EPA 6010B	03/28/12 13:08
Beryllium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 13:08
Cadmium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 13:08
Chromium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:08
Cobalt, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:08
Copper, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:08
Lead, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:08
Molybdenum, Dissolved	**0.019**	0.0050	mg/L	EPA 6010B	03/28/12 13:08
Nickel, Dissolved	**0.019**	0.0050	mg/L	EPA 6010B	03/28/12 13:08
Selenium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:08
Silver, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:08
Thallium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:08
Vanadium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:08
Zinc, Dissolved	< 0.010	0.010	mg/L	EPA 6010B	03/28/12 13:08
Mercury, Dissolved	< 0.00050	0.00050	mg/L	EPA 7470A	03/29/12 13:40

KIFF Analytical LLC

Report Number : 80750

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Sample : **SGI-5** Matrix : Water Lab Number : 80750-05

Sample Date :03/21/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:12
Arsenic, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:12
Barium, Dissolved	**0.11**	0.010	mg/L	EPA 6010B	03/28/12 13:12
Beryllium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 13:12
Cadmium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/12 13:12
Chromium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:12
Cobalt, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:12
Copper, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:12
Lead, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:12
Molybdenum, Dissolved	**0.015**	0.0050	mg/L	EPA 6010B	03/28/12 13:12
Nickel, Dissolved	**0.014**	0.0050	mg/L	EPA 6010B	03/28/12 13:12
Selenium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:12
Silver, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:12
Thallium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/12 13:12
Vanadium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/12 13:12
Zinc, Dissolved	< 0.010	0.010	mg/L	EPA 6010B	03/28/12 13:12
Mercury, Dissolved	< 0.00050	0.00050	mg/L	EPA 7470A	03/29/12 13:42

Report Number : 80750

Date : 03/29/2012

QC Report : Method Blank Data

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Antimony, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/2012
Arsenic, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/2012
Barium, Dissolved	< 0.010	0.010	mg/L	EPA 6010B	03/28/2012
Beryllium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/2012
Cadmium, Dissolved	< 0.0010	0.0010	mg/L	EPA 6010B	03/28/2012
Chromium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/2012
Cobalt, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/2012
Copper, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/2012
Lead, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/2012
Molybdenum, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/2012
Nickel, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/2012
Selenium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/2012
Silver, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/2012
Thallium, Dissolved	< 0.015	0.015	mg/L	EPA 6010B	03/28/2012
Vanadium, Dissolved	< 0.0050	0.0050	mg/L	EPA 6010B	03/28/2012
Zinc, Dissolved	< 0.010	0.010	mg/L	EPA 6010B	03/28/2012
Mercury, Dissolved	< 0.00050	0.00050	mg/L	EPA 7470A	03/29/2012
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	03/28/2012
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	03/28/2012
Octacosane (Silica Gel Surr)	102		%	M EPA 8015	03/28/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	03/28/2012
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Methanol	< 50	50	ug/L	EPA 8260B	03/28/2012
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/28/2012
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/28/2012
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	03/28/2012
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

Date : 03/29/2012

QC Report : Method Blank Data

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Bromomethane	< 20	20	ug/L	EPA 8260B	03/28/2012
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	03/28/2012
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	03/28/2012
Styrene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/28/2012
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	03/28/2012
4-Bromofluorobenzene (Surr)	98.8		%	EPA 8260B	03/28/2012
Toluene - d8 (Surr)	99.5		%	EPA 8260B	03/28/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	03/29/2012
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/29/2012

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1,1,2-Tetrachloroethane														
	80748-02	<0.50	39.1	39.4	40.3	40.7	ug/L	EPA 8260B	3/28/12	103	103	0.00920	70.0-130	25
1,1,1-Trichloroethane														
	80748-02	<0.50	39.1	39.4	41.1	40.3	ug/L	EPA 8260B	3/28/12	105	102	2.78	70.0-130	25
1,1,2,2-Tetrachloroethane														
	80748-02	<0.50	39.1	39.4	41.4	44.0	ug/L	EPA 8260B	3/28/12	106	111	5.08	80-121	25
1,1,2-Trichloroethane														
	80748-02	<0.50	39.1	39.4	38.6	40.0	ug/L	EPA 8260B	3/28/12	98.7	101	2.60	70.0-130	25
1,1-Dichloroethane														
	80748-02	<0.50	39.1	39.4	40.4	40.4	ug/L	EPA 8260B	3/28/12	103	102	0.998	76.5-120	25
1,1-Dichloroethene														
	80748-02	<0.50	39.1	39.4	40.6	40.3	ug/L	EPA 8260B	3/28/12	104	102	1.64	69.6-124	25
1,1-Dichloropropene														
	80748-02	<0.50	39.1	39.4	40.9	40.7	ug/L	EPA 8260B	3/28/12	105	103	1.36	70.0-130	25
1,2,3-Trichlorobenzene														
	80748-02	0.69	39.1	39.4	36.1	37.8	ug/L	EPA 8260B	3/28/12	90.6	94.1	3.81	70.0-130	25
1,2,3-Trichloropropane														
	80748-02	<0.50	39.1	39.4	38.0	41.2	ug/L	EPA 8260B	3/28/12	97.4	104	7.09	70.0-130	25
1,2,4-Trichlorobenzene														
	80748-02	0.59	39.1	39.4	38.4	39.6	ug/L	EPA 8260B	3/28/12	96.8	98.9	2.22	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2,4-Trimethylbenzene														
	80748-02	<0.50	39.1	39.4	39.8	40.4	ug/L	EPA 8260B	3/28/12	102	102	0.510	70.0-130	25
1,2-Dibromoethane														
	80748-02	<0.50	39.3	39.6	38.9	40.6	ug/L	EPA 8260B	3/28/12	99.2	102	3.29	80-120	25
1,2-Dichlorobenzene														
	80748-02	<0.50	39.1	39.4	39.6	39.6	ug/L	EPA 8260B	3/28/12	101	100	0.931	80-120	25
1,2-Dichloroethane														
	80748-02	<0.50	39.1	39.4	39.9	40.3	ug/L	EPA 8260B	3/28/12	102	102	0.0420	75.7-122	25
1,2-Dichloropropane														
	80748-02	<0.50	39.1	39.4	39.8	40.5	ug/L	EPA 8260B	3/28/12	102	102	0.704	80-120	25
1,2-dibromo-3-chloropropane														
	80748-02	0.60	39.1	39.4	38.0	42.6	ug/L	EPA 8260B	3/28/12	95.8	106	10.5	70.0-130	25
1,3,5-Trimethylbenzene														
	80748-02	<0.50	39.1	39.4	40.7	41.4	ug/L	EPA 8260B	3/28/12	104	105	0.823	70.0-130	25
1,3-Dichlorobenzene														
	80748-02	<0.50	39.1	39.4	37.9	38.8	ug/L	EPA 8260B	3/28/12	97.1	98.3	1.31	79.3-120	25
1,3-Dichloropropane														
	80748-02	<0.50	39.1	39.4	39.8	40.9	ug/L	EPA 8260B	3/28/12	102	104	1.66	70.0-130	25
1,4-Dichlorobenzene														
	80748-02	<0.50	39.1	39.4	40.1	40.0	ug/L	EPA 8260B	3/28/12	103	102	1.12	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
2+4-Chlorotoluene														
	80748-02	<1.0	78.1	78.9	79.5	80.7	ug/L	EPA 8260B	3/28/12	102	102	0.534	70.0-130	25
2,2-Dichloropropane														
	80748-02	<0.50	39.1	39.4	38.7	37.6	ug/L	EPA 8260B	3/28/12	99.1	95.4	3.81	65.6-145	25
Benzene														
	80748-02	<0.50	39.1	39.4	40.6	40.8	ug/L	EPA 8260B	3/28/12	104	103	0.707	80-120	25
Bromobenzene														
	80748-02	<0.50	39.1	39.4	38.6	39.2	ug/L	EPA 8260B	3/28/12	98.8	99.4	0.536	70.0-130	25
Bromochloromethane														
	80748-02	<0.50	39.1	39.4	40.4	40.9	ug/L	EPA 8260B	3/28/12	103	104	0.332	70.0-130	25
Bromodichloromethane														
	80748-02	<0.50	39.1	39.4	41.0	41.2	ug/L	EPA 8260B	3/28/12	105	104	0.666	70.0-130	25
Bromoform														
	80748-02	<0.50	39.1	39.4	40.8	42.7	ug/L	EPA 8260B	3/28/12	104	108	3.47	73.0-142	25
Bromomethane														
	80748-02	<20	195	197	204	205	ug/L	EPA 8260B	3/28/12	104	104	0.184	33.5-140	25
Carbon Tetrachloride														
	80748-02	<0.50	39.1	39.4	40.7	40.2	ug/L	EPA 8260B	3/28/12	104	102	2.22	70.0-130	25
Chlorobenzene														
	80748-02	<0.50	39.1	39.4	39.3	39.5	ug/L	EPA 8260B	3/28/12	100	100	0.318	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Chloroethane														
	80748-02	<0.50	39.1	39.4	41.0	40.8	ug/L	EPA 8260B	3/28/12	105	103	1.37	70.0-130	25
Chloroform														
	80748-02	<0.50	39.1	39.4	40.1	39.9	ug/L	EPA 8260B	3/28/12	103	101	1.40	80.0-120	25
Chloromethane														
	80748-02	<0.50	39.1	39.4	36.1	35.0	ug/L	EPA 8260B	3/28/12	92.5	88.8	4.05	45.9-142	25
Dibromochloromethane														
	80748-02	<0.50	39.1	39.4	40.7	41.4	ug/L	EPA 8260B	3/28/12	104	105	0.583	70.0-130	25
Dibromomethane														
	80748-02	<0.50	39.1	39.4	39.9	41.2	ug/L	EPA 8260B	3/28/12	102	104	2.15	70.0-130	25
Dichlorodifluoromethane														
	80748-02	<0.50	39.1	39.4	32.4	31.1	ug/L	EPA 8260B	3/28/12	82.8	78.8	5.05	47.4-151	25
Diisopropyl ether														
	80748-02	<0.50	38.6	39.0	39.4	39.4	ug/L	EPA 8260B	3/28/12	102	101	0.974	80-120	25
Ethanol														
	80748-02	6.3	97.8	98.8	132	130	ug/L	EPA 8260B	3/28/12	128	125	2.70	55.1-159	25
Ethyl-tert-butyl ether														
	80748-02	<0.50	39.1	39.5	37.8	37.8	ug/L	EPA 8260B	3/28/12	96.8	95.9	0.880	76.5-120	25
Ethylbenzene														
	80748-02	<0.50	39.1	39.4	42.4	42.4	ug/L	EPA 8260B	3/28/12	108	108	0.750	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Hexachlorobutadiene														
	80748-02	<0.50	39.1	39.4	38.3	39.3	ug/L	EPA 8260B	3/28/12	98.0	99.6	1.57	70.0-130	25
Isopropyl benzene														
	80748-02	<0.50	39.1	39.4	40.0	40.4	ug/L	EPA 8260B	3/28/12	102	102	0.187	70.0-130	25
Methanol														
	80748-02	<50	976	986	1260	1170	ug/L	EPA 8260B	3/28/12	129	118	8.46	53.2-147	25
Methyl-t-butyl ether														
	80748-02	3.0	39.1	39.5	39.4	40.4	ug/L	EPA 8260B	3/28/12	93.2	94.7	1.58	69.7-121	25
Methylene Chloride														
	80748-02	<5.0	39.1	39.4	38.4	38.6	ug/L	EPA 8260B	3/28/12	98.3	97.7	0.616	70.0-130	25
Naphthalene														
	80748-02	1.5	39.1	39.4	35.8	39.6	ug/L	EPA 8260B	3/28/12	87.8	96.7	9.58	70.0-130	25
O-Xylene														
	80748-02	0.82	39.1	39.4	41.2	41.7	ug/L	EPA 8260B	3/28/12	103	104	0.317	79.7-120	25
P + M Xylene														
	80748-02	<1.0	39.1	39.4	41.0	41.3	ug/L	EPA 8260B	3/28/12	105	105	0.135	76.8-120	25
Styrene														
	80748-02	<0.50	39.1	39.4	41.0	41.6	ug/L	EPA 8260B	3/28/12	105	106	0.524	70.0-130	25
Tert-Butanol														
	80748-02	<5.0	196	198	206	208	ug/L	EPA 8260B	3/28/12	105	105	0.0800	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-amyl-methyl ether														
	80748-02	<0.50	38.5	38.9	38.2	39.0	ug/L	EPA 8260B	3/28/12	99.2	100	0.995	78.9-120	25
Tetrachloroethene														
	80748-02	3.2	39.1	39.4	43.5	43.4	ug/L	EPA 8260B	3/28/12	103	102	1.37	77.0-120	25
Toluene														
	80748-02	<0.50	39.1	39.4	40.2	40.5	ug/L	EPA 8260B	3/28/12	103	103	0.355	80-120	25
Trichloroethene														
	80748-02	<0.50	39.1	39.4	38.8	38.9	ug/L	EPA 8260B	3/28/12	99.4	98.6	0.731	80-120	25
Trichlorofluoromethane														
	80748-02	<0.50	39.1	39.4	38.2	37.4	ug/L	EPA 8260B	3/28/12	97.8	94.7	3.24	70.0-130	25
Vinyl Chloride														
	80748-02	<0.50	39.1	39.4	36.1	35.1	ug/L	EPA 8260B	3/28/12	92.3	89.1	3.58	42.1-138	25
c-1,3-Dichloropropene														
	80748-02	<5.0	39.1	39.4	40.6	40.9	ug/L	EPA 8260B	3/28/12	104	104	0.188	70.0-130	25
cis-1,2-Dichloroethene														
	80748-02	<0.50	39.1	39.4	40.0	40.0	ug/L	EPA 8260B	3/28/12	102	101	1.12	70.0-130	25
n-butylbenzene														
	80748-02	<0.50	39.1	39.4	42.0	41.8	ug/L	EPA 8260B	3/28/12	108	106	1.52	70.0-130	25
n-propylbenzene														
	80748-02	<0.50	39.1	39.4	39.6	40.3	ug/L	EPA 8260B	3/28/12	101	102	0.894	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
p-isopropyltoluene														
	80748-02	<0.50	39.1	39.4	39.8	40.0	ug/L	EPA 8260B	3/28/12	102	101	0.402	70.0-130	25
sec-butylbenzene														
	80748-02	<0.50	39.1	39.4	40.3	40.8	ug/L	EPA 8260B	3/28/12	103	103	0.201	70.0-130	25
t-1,2-Dichloroethene														
	80748-02	<5.0	39.1	39.4	40.5	39.9	ug/L	EPA 8260B	3/28/12	104	101	2.46	70.0-130	25
t-1,3-Dichloropropene														
	80748-02	<5.0	39.1	39.4	40.2	40.8	ug/L	EPA 8260B	3/28/12	103	104	0.522	70.0-130	25
tert-butylbenzene														
	80748-02	<0.50	39.1	39.4	39.5	40.6	ug/L	EPA 8260B	3/28/12	101	103	1.81	70.0-130	25
Ethanol														
	80752-07	5.7	100	100	98.9	103	ug/L	EPA 8260B	3/29/12	93.0	97.0	4.19	55.1-159	25
Tert-Butanol														
	80752-07	<5.0	201	201	195	196	ug/L	EPA 8260B	3/29/12	96.8	97.3	0.575	80-120	25
TPH-D (Si Gel)														
	BLANK	<50	1000	1000	853	872	ug/L	M EPA 8015	3/28/12	85.3	87.2	2.18	70-130	25
Antimony, (Dis)														
	80750-01	< 0.015	0.400	0.400	0.407	0.392	mg/L	EPA 6010B	3/28/12	102	97.7	3.81	75-125	20

KIFF ANALYTICAL, LLC

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Project Name : **Bridge Housing**

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Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Arsenic, (Dis)														
	80750-01	< 0.015	0.400	0.400	0.413	0.395	mg/L	EPA 6010B	3/28/12	102	98.0	4.36	75-125	20
Barium, (Dis)														
	80750-01	0.10	0.400	0.400	0.506	0.483	mg/L	EPA 6010B	3/28/12	101	95.2	4.63	75-125	20
Beryllium, (Dis)														
	80750-01	< 0.0010	0.400	0.400	0.400	0.382	mg/L	EPA 6010B	3/28/12	100	95.4	4.70	75-125	20
Cadmium, (Dis)														
	80750-01	< 0.0010	0.400	0.400	0.407	0.394	mg/L	EPA 6010B	3/28/12	102	98.4	3.30	75-125	20
Chromium, (Dis)														
	80750-01	< 0.0050	0.400	0.400	0.390	0.372	mg/L	EPA 6010B	3/28/12	97.5	93.1	4.62	75-125	20
Cobalt, (Dis)														
	80750-01	< 0.0050	0.400	0.400	0.392	0.376	mg/L	EPA 6010B	3/28/12	97.5	93.5	4.16	75-125	20
Copper, (Dis)														
	80750-01	< 0.0050	0.400	0.400	0.398	0.379	mg/L	EPA 6010B	3/28/12	99.1	94.4	4.86	75-125	20
Lead, (Dis)														
	80750-01	< 0.0050	0.400	0.400	0.396	0.382	mg/L	EPA 6010B	3/28/12	98.8	95.4	3.47	75-125	20
Molybdenum, (Dis)														
	80750-01	0.017	0.400	0.400	0.418	0.401	mg/L	EPA 6010B	3/28/12	100	96.1	4.17	75-125	20
Nickel, (Dis)														
	80750-01	0.010	0.400	0.400	0.401	0.385	mg/L	EPA 6010B	3/28/12	97.8	93.6	4.27	75-125	20

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Selenium, (Dis)														
	80750-01	< 0.015	0.400	0.400	0.418	0.408	mg/L	EPA 6010B	3/28/12	104	102	2.44	75-125	20
Silver, (Dis)														
	80750-01	< 0.0050	0.100	0.100	0.101	0.0981	mg/L	EPA 6010B	3/28/12	100	98.0	2.52	75-125	20
Thallium, (Dis)														
	80750-01	< 0.015	0.400	0.400	0.398	0.387	mg/L	EPA 6010B	3/28/12	99.5	96.7	2.88	75-125	20
Vanadium, (Dis)														
	80750-01	< 0.0050	0.400	0.400	0.387	0.368	mg/L	EPA 6010B	3/28/12	96.7	92.0	5.01	75-125	20
Zinc, (Dis)														
	80750-01	< 0.010	0.400	0.400	0.418	0.401	mg/L	EPA 6010B	3/28/12	104	99.6	4.08	75-125	20
Mercury, (Dis)														
	80750-02	< 0.00050	0.00100	0.00100	0.00102	0.00104	mg/L	EPA 7470A	3/29/12	102	104	1.94	75-125	20

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Laboratory Control Sample (LCS)

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Antimony, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	93.7	85-115
Arsenic, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	93.5	85-115
Barium, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	93.9	85-115
Beryllium, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	93.7	85-115
Cadmium, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	94.9	85-115
Chromium, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	93.4	85-115
Cobalt, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	94.2	85-115
Copper, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	94.5	85-115
Lead, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	95.7	85-115
Molybdenum, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	94.8	85-115
Nickel, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	94.0	85-115
Selenium, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	94.1	85-115
Silver, (Dis)	0.100	mg/L	EPA 6010B	3/28/12	95.9	85-115
Thallium, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	97.2	85-115
Vanadium, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	91.6	85-115
Zinc, (Dis)	0.400	mg/L	EPA 6010B	3/28/12	96.0	85-115
Mercury, (Dis)	0.00100	mg/L	EPA 7470A	3/29/12	104	85-115
1,1,1,2-Tetrachloroethane	40.0	ug/L	EPA 8260B	3/28/12	105	70.0-130
1,1,1-Trichloroethane	40.0	ug/L	EPA 8260B	3/28/12	107	70.0-130
1,1,2,2-Tetrachloroethane	40.0	ug/L	EPA 8260B	3/28/12	101	80-121

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Laboratory Control Sample (LCS)

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1,2-Trichloroethane	40.0	ug/L	EPA 8260B	3/28/12	98.5	70.0-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	3/28/12	104	76.5-120
1,1-Dichloroethene	40.0	ug/L	EPA 8260B	3/28/12	105	69.6-124
1,1-Dichloropropene	40.0	ug/L	EPA 8260B	3/28/12	106	70.0-130
1,2,3-Trichlorobenzene	40.0	ug/L	EPA 8260B	3/28/12	97.1	70.0-130
1,2,3-Trichloropropane	40.0	ug/L	EPA 8260B	3/28/12	97.7	70.0-130
1,2,4-Trichlorobenzene	40.0	ug/L	EPA 8260B	3/28/12	103	70.0-130
1,2,4-Trimethylbenzene	40.0	ug/L	EPA 8260B	3/28/12	106	70.0-130
1,2-Dibromoethane	40.2	ug/L	EPA 8260B	3/28/12	100	80-120
1,2-Dichlorobenzene	40.0	ug/L	EPA 8260B	3/28/12	101	80-120
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	3/28/12	104	75.7-122
1,2-Dichloropropane	40.0	ug/L	EPA 8260B	3/28/12	104	80-120
1,2-dibromo-3-chloropropane	40.0	ug/L	EPA 8260B	3/28/12	94.6	70.0-130
1,3,5-Trimethylbenzene	40.0	ug/L	EPA 8260B	3/28/12	106	70.0-130
1,3-Dichlorobenzene	40.0	ug/L	EPA 8260B	3/28/12	101	79.3-120
1,3-Dichloropropane	40.0	ug/L	EPA 8260B	3/28/12	104	70.0-130
1,4-Dichlorobenzene	40.0	ug/L	EPA 8260B	3/28/12	104	80-120
2+4-Chlorotoluene	80.0	ug/L	EPA 8260B	3/28/12	104	70.0-130
2,2-Dichloropropane	40.0	ug/L	EPA 8260B	3/28/12	103	65.6-145
Benzene	40.0	ug/L	EPA 8260B	3/28/12	104	80-120
Bromobenzene	40.0	ug/L	EPA 8260B	3/28/12	100	70.0-130
Bromochloromethane	40.0	ug/L	EPA 8260B	3/28/12	104	70.0-130
Bromodichloromethane	40.0	ug/L	EPA 8260B	3/28/12	107	70.0-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 80750

QC Report : Laboratory Control Sample (LCS)

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Bromoform	40.0	ug/L	EPA 8260B	3/28/12	106	73.0-142
Bromomethane	200	ug/L	EPA 8260B	3/28/12	93.0	33.5-140
Carbon Tetrachloride	40.0	ug/L	EPA 8260B	3/28/12	107	70.0-130
Chlorobenzene	40.0	ug/L	EPA 8260B	3/28/12	102	80-120
Chloroethane	40.0	ug/L	EPA 8260B	3/28/12	104	70.0-130
Chloroform	40.0	ug/L	EPA 8260B	3/28/12	104	80.0-120
Chloromethane	40.0	ug/L	EPA 8260B	3/28/12	90.6	45.9-142
Dibromochloromethane	40.0	ug/L	EPA 8260B	3/28/12	107	70.0-130
Dibromomethane	40.0	ug/L	EPA 8260B	3/28/12	103	70.0-130
Dichlorodifluoromethane	40.0	ug/L	EPA 8260B	3/28/12	87.1	47.4-151
Diisopropyl ether	39.5	ug/L	EPA 8260B	3/28/12	102	80-120
Ethanol	100	ug/L	EPA 8260B	3/28/12	126	55.1-159
Ethyl-tert-butyl ether	40.0	ug/L	EPA 8260B	3/28/12	97.1	76.5-120
Ethylbenzene	40.0	ug/L	EPA 8260B	3/28/12	110	80-120
Hexachlorobutadiene	40.0	ug/L	EPA 8260B	3/28/12	105	70.0-130
Isopropyl benzene	40.0	ug/L	EPA 8260B	3/28/12	105	70.0-130
Methanol	1000	ug/L	EPA 8260B	3/28/12	134	53.2-147
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	3/28/12	93.4	69.7-121
Methylene Chloride	40.0	ug/L	EPA 8260B	3/28/12	99.5	70.0-130
Naphthalene	40.0	ug/L	EPA 8260B	3/28/12	92.6	70.0-130
O-Xylene	40.0	ug/L	EPA 8260B	3/28/12	106	79.7-120
P + M Xylene	40.0	ug/L	EPA 8260B	3/28/12	105	76.8-120
Styrene	40.0	ug/L	EPA 8260B	3/28/12	107	70.0-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

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QC Report : Laboratory Control Sample (LCS)

Date : 03/29/2012

Project Name : **Bridge Housing**

Project Number : **01-BHC-001**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Tert-Butanol	201	ug/L	EPA 8260B	3/28/12	101	80-120
Tert-amyl-methyl ether	39.4	ug/L	EPA 8260B	3/28/12	102	78.9-120
Tetrachloroethene	40.0	ug/L	EPA 8260B	3/28/12	107	77.0-120
Toluene	40.0	ug/L	EPA 8260B	3/28/12	104	80-120
Trichloroethene	40.0	ug/L	EPA 8260B	3/28/12	104	80-120
Trichlorofluoromethane	40.0	ug/L	EPA 8260B	3/28/12	100	70.0-130
Vinyl Chloride	40.0	ug/L	EPA 8260B	3/28/12	93.2	42.1-138
c-1,3-Dichloropropene	40.0	ug/L	EPA 8260B	3/28/12	106	70.0-130
cis-1,2-Dichloroethene	40.0	ug/L	EPA 8260B	3/28/12	102	70.0-130
n-butylbenzene	40.0	ug/L	EPA 8260B	3/28/12	108	70.0-130
n-propylbenzene	40.0	ug/L	EPA 8260B	3/28/12	104	70.0-130
p-isopropyltoluene	40.0	ug/L	EPA 8260B	3/28/12	106	70.0-130
sec-butylbenzene	40.0	ug/L	EPA 8260B	3/28/12	107	70.0-130
t-1,2-Dichloroethene	40.0	ug/L	EPA 8260B	3/28/12	105	70.0-130
t-1,3-Dichloropropene	40.0	ug/L	EPA 8260B	3/28/12	106	70.0-130
tert-butylbenzene	40.0	ug/L	EPA 8260B	3/28/12	104	70.0-130
Ethanol	100	ug/L	EPA 8260B	3/29/12	97.1	55.1-159
Tert-Butanol	202	ug/L	EPA 8260B	3/29/12	99.7	80-120

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800 x 104
Fax: 530.297.4802

SRG # / Lab No. 80750

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Serene Daro

Company / Address: The Source Group Inc.

Phone Number:

Fax Number: 925-944-2859

Project #: Bridge Housing

P.O. #: 01-BHC-001

Project Name:

California EDF Report? ☐ Yes ☒ No

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address):

Bill to: SGI

Sampler Print Name: Serene Daro

Sampler Signature:

Project Address:

Sample Designation	Sampling Date	Sampling Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar		HCl	HNO_3	None			Water	Soil	Air		MTBE @ 0.5 ppb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M) w/ SGC	TPH as Motor Oil (EPA 8015M) w/ SGC	CAM 17 Metals (EPA 200.7 / 6010)*	5 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA 200.7 / 6010)	Mercury (EPA 245.1 / 7470 / 7471)	Total Lead (EPA 200.7 / 6010)	W.E.T. Lead (STLC)	SVOCs				For Lab Use Only
SGI-1	3/21/12	944	X		X	X								X						X		X			X		X	X	X					X					01
SGI-2	↓	1045	↓		↓	↓								↓						↓		↓			↓		↓	↓	↓					↓					02
SGI-3	↓	1150	↓		↓	↓								↓						↓		↓			↓		↓	↓	↓					↓					03
SGI-4	↓	1245	↓		↓	↓								↓						↓		↓			↓		↓	↓	↓					↓					04
SGI-5	↓	1335	↓		↓	↓								↓						↓		↓			↓		↓	↓	↓					↓					05

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72hr ☒ 1 wk

CIRCLE METHOD

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	03222012	14:25	Keff Analytical Harold Brewer

Remarks: * Filter in lab

Distribution: White - Lab; Pink - Originator
Rev: 060409

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

RECEIVER: KB Initials

SRG#: 80750 Date: 032212

Project ID: Bridge Housing

Method of Receipt: ☒ Courier ☐ Over-the-counter ☐ Shipper

COC Inspection

Is COC present? ☒ Yes ☐ No

Custody seals on shipping container? ☐ Intact ☐ Broken ☐ Not present ☒ N/A

Is COC Signed by Relinquisher? ☒ Yes ☐ No Dated? ☒ Yes ☐ No

Is sampler name legibly indicated on COC? ☒ Yes ☐ No

Is analysis or hold requested for all samples? ☒ Yes ☐ No

Is the turnaround time indicated on COC? ☒ Yes ☐ No

Is COC free of whiteout and uninitialed cross-outs? ☒ Yes ☐ No, Whiteout ☐ No, Cross-outs

Sample Inspection

Coolant Present: ☒ Yes ☐ No (includes water)

Temperature °C 1.3 Therm. ID# IR-4 Initial LJR Date/Time 032212/1746 ☐ N/A

Are there custody seals on sample containers? ☐ Intact ☐ Broken ☒ Not present

Do containers match COC? ☒ Yes ☐ No ☐ No, COC lists absent sample(s) ☐ No, Extra sample(s) present

Are there samples matrices other than soil, water, air or carbon? ☐ Yes ☒ No

Are any sample containers broken, leaking or damaged? ☐ Yes ☒ No

Are preservatives indicated? ☒ Yes, on sample containers ☐ Yes, on COC ☐ Not indicated ☐ N/A

Are preservatives correct for analyses requested? ☒ Yes ☐ No ☐ N/A

Are samples within holding time for analyses requested? ☒ Yes ☐ No

Are the correct sample containers used for the analyses requested? ☒ Yes ☐ No

Is there sufficient sample to perform testing? ☒ Yes ☐ No

Does any sample contain product, have strong odor or are otherwise suspected to be hot? ☐ Yes ☒ No

Receipt Details

Matrix WA Container type amber # of containers received 5

Matrix WA Container type poly # of containers received 5

Matrix WA Container type VOA # of containers received 25

Date and Time Sample Put into Temp Storage Date: 032212 Time: 1751

Quicklog

Are the Sample ID's indicated: ☐ On COC ☐ On sample container(s) ☒ On Both ☐ Not indicated

If Sample ID's are listed on both COC and containers, do they all match? ☒ Yes ☐ No ☐ N/A

Is the Project ID indicated: ☐ On COC ☐ On sample container(s) ☒ On Both ☐ Not indicated

If project ID is listed on both COC and containers, do they all match? ☒ Yes ☐ No ☐ N/A

Are the sample collection dates indicated: ☐ On COC ☐ On sample container(s) ☒ On Both ☐ Not indicated

If collection dates are listed on both COC and containers, do they all match? ☒ Yes ☐ No ☐ N/A

Are the sample collection times indicated: ☐ On COC ☐ On sample container(s) ☒ On Both ☐ Not indicated

If collection times are listed on both COC and containers, do they all match? ☒ Yes ☐ No ☐ N/A

COMMENTS: Per S. Forbes, metals by 6010 and SVOCs by 8270. LJR 032212 - 1747

Bubbles in some samples. LJR 032312 0753

O:\old_ed\samprec\Forms\Sample Receipt Checklist rev 051409.doc

Leaders in Analytical Science and Service

KIFF Analytical LLC

Subcontract Laboratory Report Attachments

2795 Second Street, Suite 300 Davis, CA 95618
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www.kiffanalytical.com

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-1691

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Analytical Report For

Client: Kiff Analytical

Client Project Name: Bridge Housing

Attention: Joel Kiff
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Amanda Porter

Approved for release on 03/30/2012 by:
Amanda Porter
Project Manager

ResultLink

Email your PM

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

Calscience Environmental Laboratories, Inc.

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Client Project Name: Bridge Housing
Work Order Number: 12-03-1691

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Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	03/24/12
2795 2nd Street, Suite 300		Work Order No:	12-03-1691
Davis, CA 95616-6593		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: Bridge Housing			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SGI-1	**12-03-1691-1-A**	**03/21/12 09:44**	**Aqueous**	**GC/MS TT**	**03/27/12**	**03/29/12 15:27**	**120327L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	10	1		2,4-Dimethylphenol	ND	10	1	
Acenaphthylene	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Aniline	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Anthracene	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Azobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
Benzidine	ND	50	1		Fluoranthene	ND	10	1	
Benzo (a) Anthracene	ND	10	1		Fluorene	ND	10	1	
Benzo (a) Pyrene	ND	10	1		Hexachloro-1,3-Butadiene	ND	10	1	
Benzo (b) Fluoranthene	ND	10	1		Hexachlorobenzene	ND	10	1	
Benzo (g,h,i) Perylene	ND	10	1		Hexachlorocyclopentadiene	ND	25	1	
Benzo (k) Fluoranthene	ND	10	1		Hexachloroethane	ND	10	1	
Benzoic Acid	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Benzyl Alcohol	ND	10	1		Isophorone	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		2-Methylnaphthalene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		1-Methylnaphthalene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		2-Methylphenol	ND	10	1	
Bis(2-Ethylhexyl) Phthalate	ND	10	1		3/4-Methylphenol	ND	10	1	
4-Bromophenyl-Phenyl Ether	ND	10	1		N-Nitroso-di-n-propylamine	ND	10	1	
Butyl Benzyl Phthalate	ND	10	1		N-Nitrosodimethylamine	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
4-Chloroaniline	ND	10	1		Naphthalene	ND	10	1	
2-Chloronaphthalene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		3-Nitroaniline	ND	10	1	
4-Chlorophenyl-Phenyl Ether	ND	10	1		2-Nitroaniline	ND	10	1	
Chrysene	ND	10	1		Nitrobenzene	ND	25	1	
Di-n-Butyl Phthalate	ND	10	1		4-Nitrophenol	ND	10	1	
Di-n-Octyl Phthalate	ND	10	1		2-Nitrophenol	ND	10	1	
Dibenz (a,h) Anthracene	ND	10	1		Pentachlorophenol	ND	10	1	
Dibenzofuran	ND	10	1		Phenanthrene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Phenol	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Pyrene	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Pyridine	ND	10	1	
3,3'-Dichlorobenzidine	ND	25	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		2,4,6-Trichlorophenol	ND	10	1	
Diethyl Phthalate	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Dimethyl Phthalate	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	61	42-138		2-Fluorophenol	50	7-121	
Nitrobenzene-d5	63	50-146		p-Terphenyl-d14	77	47-173	
Phenol-d6	34	1-127		2,4,6-Tribromophenol	80	41-137	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	03/24/12
2795 2nd Street, Suite 300		Work Order No:	12-03-1691
Davis, CA 95616-6593		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: Bridge Housing			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SGI-2	**12-03-1691-2-A**	**03/21/12 10:45**	**Aqueous**	**GC/MS TT**	**03/27/12**	**03/29/12 15:52**	**120327L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	10	1		2,4-Dimethylphenol	ND	10	1	
Acenaphthylene	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Aniline	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Anthracene	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Azobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
Benzidine	ND	50	1		Fluoranthene	ND	10	1	
Benzo (a) Anthracene	ND	10	1		Fluorene	ND	10	1	
Benzo (a) Pyrene	ND	10	1		Hexachloro-1,3-Butadiene	ND	10	1	
Benzo (b) Fluoranthene	ND	10	1		Hexachlorobenzene	ND	10	1	
Benzo (g,h,i) Perylene	ND	10	1		Hexachlorocyclopentadiene	ND	25	1	
Benzo (k) Fluoranthene	ND	10	1		Hexachloroethane	ND	10	1	
Benzoic Acid	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Benzyl Alcohol	ND	10	1		Isophorone	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		2-Methylnaphthalene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		1-Methylnaphthalene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		2-Methylphenol	ND	10	1	
Bis(2-Ethylhexyl) Phthalate	ND	10	1		3/4-Methylphenol	ND	10	1	
4-Bromophenyl-Phenyl Ether	ND	10	1		N-Nitroso-di-n-propylamine	ND	10	1	
Butyl Benzyl Phthalate	ND	10	1		N-Nitrosodimethylamine	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
4-Chloroaniline	ND	10	1		Naphthalene	ND	10	1	
2-Chloronaphthalene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		3-Nitroaniline	ND	10	1	
4-Chlorophenyl-Phenyl Ether	ND	10	1		2-Nitroaniline	ND	10	1	
Chrysene	ND	10	1		Nitrobenzene	ND	25	1	
Di-n-Butyl Phthalate	ND	10	1		4-Nitrophenol	ND	10	1	
Di-n-Octyl Phthalate	ND	10	1		2-Nitrophenol	ND	10	1	
Dibenz (a,h) Anthracene	ND	10	1		Pentachlorophenol	ND	10	1	
Dibenzofuran	ND	10	1		Phenanthrene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Phenol	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Pyrene	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Pyridine	ND	10	1	
3,3'-Dichlorobenzidine	ND	25	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		2,4,6-Trichlorophenol	ND	10	1	
Diethyl Phthalate	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Dimethyl Phthalate	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	77	42-138		2-Fluorophenol	61	7-121	
Nitrobenzene-d5	81	50-146		p-Terphenyl-d14	91	47-173	
Phenol-d6	41	1-127		2,4,6-Tribromophenol	92	41-137	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	03/24/12
2795 2nd Street, Suite 300		Work Order No:	12-03-1691
Davis, CA 95616-6593		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: Bridge Housing			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SGI-3	**12-03-1691-3-A**	**03/21/12 11:50**	**Aqueous**	**GC/MS TT**	**03/27/12**	**03/29/12 16:19**	**120327L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	10	1		2,4-Dimethylphenol	ND	10	1	
Acenaphthylene	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Aniline	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Anthracene	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Azobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
Benzidine	ND	50	1		Fluoranthene	ND	10	1	
Benzo (a) Anthracene	ND	10	1		Fluorene	ND	10	1	
Benzo (a) Pyrene	ND	10	1		Hexachloro-1,3-Butadiene	ND	10	1	
Benzo (b) Fluoranthene	ND	10	1		Hexachlorobenzene	ND	10	1	
Benzo (g,h,i) Perylene	ND	10	1		Hexachlorocyclopentadiene	ND	25	1	
Benzo (k) Fluoranthene	ND	10	1		Hexachloroethane	ND	10	1	
Benzoic Acid	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Benzyl Alcohol	ND	10	1		Isophorone	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		2-Methylnaphthalene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		1-Methylnaphthalene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		2-Methylphenol	ND	10	1	
Bis(2-Ethylhexyl) Phthalate	ND	10	1		3/4-Methylphenol	ND	10	1	
4-Bromophenyl-Phenyl Ether	ND	10	1		N-Nitroso-di-n-propylamine	ND	10	1	
Butyl Benzyl Phthalate	ND	10	1		N-Nitrosodimethylamine	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
4-Chloroaniline	ND	10	1		Naphthalene	ND	10	1	
2-Chloronaphthalene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		3-Nitroaniline	ND	10	1	
4-Chlorophenyl-Phenyl Ether	ND	10	1		2-Nitroaniline	ND	10	1	
Chrysene	ND	10	1		Nitrobenzene	ND	25	1	
Di-n-Butyl Phthalate	ND	10	1		4-Nitrophenol	ND	10	1	
Di-n-Octyl Phthalate	ND	10	1		2-Nitrophenol	ND	10	1	
Dibenz (a,h) Anthracene	ND	10	1		Pentachlorophenol	ND	10	1	
Dibenzofuran	ND	10	1		Phenanthrene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Phenol	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Pyrene	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Pyridine	ND	10	1	
3,3'-Dichlorobenzidine	ND	25	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		2,4,6-Trichlorophenol	ND	10	1	
Diethyl Phthalate	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Dimethyl Phthalate	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	72	42-138		2-Fluorophenol	59	7-121	
Nitrobenzene-d5	73	50-146		p-Terphenyl-d14	87	47-173	
Phenol-d6	43	1-127		2,4,6-Tribromophenol	85	41-137	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	03/24/12
2795 2nd Street, Suite 300		Work Order No:	12-03-1691
Davis, CA 95616-6593		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: Bridge Housing			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SGI-4	**12-03-1691-4-A**	**03/21/12 12:45**	**Aqueous**	**GC/MS TT**	**03/27/12**	**03/29/12 16:44**	**120327L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	10	1		2,4-Dimethylphenol	ND	10	1	
Acenaphthylene	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Aniline	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Anthracene	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Azobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
Benzidine	ND	50	1		Fluoranthene	ND	10	1	
Benzo (a) Anthracene	ND	10	1		Fluorene	ND	10	1	
Benzo (a) Pyrene	ND	10	1		Hexachloro-1,3-Butadiene	ND	10	1	
Benzo (b) Fluoranthene	ND	10	1		Hexachlorobenzene	ND	10	1	
Benzo (g,h,i) Perylene	ND	10	1		Hexachlorocyclopentadiene	ND	25	1	
Benzo (k) Fluoranthene	ND	10	1		Hexachloroethane	ND	10	1	
Benzoic Acid	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Benzyl Alcohol	ND	10	1		Isophorone	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		2-Methylnaphthalene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		1-Methylnaphthalene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		2-Methylphenol	ND	10	1	
Bis(2-Ethylhexyl) Phthalate	ND	10	1		3/4-Methylphenol	ND	10	1	
4-Bromophenyl-Phenyl Ether	ND	10	1		N-Nitroso-di-n-propylamine	ND	10	1	
Butyl Benzyl Phthalate	ND	10	1		N-Nitrosodimethylamine	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
4-Chloroaniline	ND	10	1		Naphthalene	ND	10	1	
2-Chloronaphthalene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		3-Nitroaniline	ND	10	1	
4-Chlorophenyl-Phenyl Ether	ND	10	1		2-Nitroaniline	ND	10	1	
Chrysene	ND	10	1		Nitrobenzene	ND	25	1	
Di-n-Butyl Phthalate	ND	10	1		4-Nitrophenol	ND	10	1	
Di-n-Octyl Phthalate	ND	10	1		2-Nitrophenol	ND	10	1	
Dibenz (a,h) Anthracene	ND	10	1		Pentachlorophenol	ND	10	1	
Dibenzofuran	ND	10	1		Phenanthrene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Phenol	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Pyrene	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Pyridine	ND	10	1	
3,3'-Dichlorobenzidine	ND	25	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		2,4,6-Trichlorophenol	ND	10	1	
Diethyl Phthalate	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Dimethyl Phthalate	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	64	42-138		2-Fluorophenol	46	7-121	
Nitrobenzene-d5	67	50-146		p-Terphenyl-d14	73	47-173	
Phenol-d6	31	1-127		2,4,6-Tribromophenol	75	41-137	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	03/24/12
2795 2nd Street, Suite 300		Work Order No:	12-03-1691
Davis, CA 95616-6593		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: Bridge Housing			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SGI-5	**12-03-1691-5-A**	**03/21/12 13:35**	**Aqueous**	**GC/MS TT**	**03/27/12**	**03/29/12 17:10**	**120327L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	10	1		2,4-Dimethylphenol	ND	10	1	
Acenaphthylene	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Aniline	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Anthracene	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Azobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
Benzidine	ND	50	1		Fluoranthene	ND	10	1	
Benzo (a) Anthracene	ND	10	1		Fluorene	ND	10	1	
Benzo (a) Pyrene	ND	10	1		Hexachloro-1,3-Butadiene	ND	10	1	
Benzo (b) Fluoranthene	ND	10	1		Hexachlorobenzene	ND	10	1	
Benzo (g,h,i) Perylene	ND	10	1		Hexachlorocyclopentadiene	ND	25	1	
Benzo (k) Fluoranthene	ND	10	1		Hexachloroethane	ND	10	1	
Benzoic Acid	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Benzyl Alcohol	ND	10	1		Isophorone	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		2-Methylnaphthalene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		1-Methylnaphthalene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		2-Methylphenol	ND	10	1	
Bis(2-Ethylhexyl) Phthalate	ND	10	1		3/4-Methylphenol	ND	10	1	
4-Bromophenyl-Phenyl Ether	ND	10	1		N-Nitroso-di-n-propylamine	ND	10	1	
Butyl Benzyl Phthalate	ND	10	1		N-Nitrosodimethylamine	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
4-Chloroaniline	ND	10	1		Naphthalene	ND	10	1	
2-Chloronaphthalene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		3-Nitroaniline	ND	10	1	
4-Chlorophenyl-Phenyl Ether	ND	10	1		2-Nitroaniline	ND	10	1	
Chrysene	ND	10	1		Nitrobenzene	ND	25	1	
Di-n-Butyl Phthalate	ND	10	1		4-Nitrophenol	ND	10	1	
Di-n-Octyl Phthalate	ND	10	1		2-Nitrophenol	ND	10	1	
Dibenz (a,h) Anthracene	ND	10	1		Pentachlorophenol	ND	10	1	
Dibenzofuran	ND	10	1		Phenanthrene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Phenol	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Pyrene	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Pyridine	ND	10	1	
3,3'-Dichlorobenzidine	ND	25	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		2,4,6-Trichlorophenol	ND	10	1	
Diethyl Phthalate	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Dimethyl Phthalate	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	76	42-138		2-Fluorophenol	31	7-121	
Nitrobenzene-d5	79	50-146		p-Terphenyl-d14	89	47-173	
Phenol-d6	22	1-127		2,4,6-Tribromophenol	76	41-137	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	03/24/12
2795 2nd Street, Suite 300		Work Order No:	12-03-1691
Davis, CA 95616-6593		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: Bridge Housing			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-3,347**	**N/A**	**Aqueous**	**GC/MS TT**	**03/27/12**	**03/29/12 10:46**	**120327L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	10	1		2,4-Dimethylphenol	ND	10	1	
Acenaphthylene	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Aniline	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Anthracene	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
Azobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
Benzidine	ND	50	1		Fluoranthene	ND	10	1	
Benzo (a) Anthracene	ND	10	1		Fluorene	ND	10	1	
Benzo (a) Pyrene	ND	10	1		Hexachloro-1,3-Butadiene	ND	10	1	
Benzo (b) Fluoranthene	ND	10	1		Hexachlorobenzene	ND	10	1	
Benzo (g,h,i) Perylene	ND	10	1		Hexachlorocyclopentadiene	ND	25	1	
Benzo (k) Fluoranthene	ND	10	1		Hexachloroethane	ND	10	1	
Benzoic Acid	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Benzyl Alcohol	ND	10	1		Isophorone	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		2-Methylnaphthalene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		1-Methylnaphthalene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		2-Methylphenol	ND	10	1	
Bis(2-Ethylhexyl) Phthalate	ND	10	1		3/4-Methylphenol	ND	10	1	
4-Bromophenyl-Phenyl Ether	ND	10	1		N-Nitroso-di-n-propylamine	ND	10	1	
Butyl Benzyl Phthalate	ND	10	1		N-Nitrosodimethylamine	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
4-Chloroaniline	ND	10	1		Naphthalene	ND	10	1	
2-Chloronaphthalene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		3-Nitroaniline	ND	10	1	
4-Chlorophenyl-Phenyl Ether	ND	10	1		2-Nitroaniline	ND	10	1	
Chrysene	ND	10	1		Nitrobenzene	ND	25	1	
Di-n-Butyl Phthalate	ND	10	1		4-Nitrophenol	ND	10	1	
Di-n-Octyl Phthalate	ND	10	1		2-Nitrophenol	ND	10	1	
Dibenz (a,h) Anthracene	ND	10	1		Pentachlorophenol	ND	10	1	
Dibenzofuran	ND	10	1		Phenanthrene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		Phenol	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Pyrene	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Pyridine	ND	10	1	
3,3'-Dichlorobenzidine	ND	25	1		1,2,4-Trichlorobenzene	ND	10	1	
2,4-Dichlorophenol	ND	10	1		2,4,6-Trichlorophenol	ND	10	1	
Diethyl Phthalate	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Dimethyl Phthalate	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	62	42-138		2-Fluorophenol	52	7-121	
Nitrobenzene-d5	66	50-146		p-Terphenyl-d14	80	47-173	
Phenol-d6	34	1-127		2,4,6-Tribromophenol	82	41-137	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Kiff Analytical		Date Received:	N/A
2795 2nd Street, Suite 300		Work Order No:	12-03-1691
Davis, CA 95616-6593		Preparation:	EPA 3510C
		Method:	EPA 8270C

Project: Bridge Housing

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-3,347	**Aqueous**	**GC/MS TT**	**03/27/12**	**03/29/12**	**120327L06**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	75	74	55-139	41-153	2	0-17	
Acenaphthylene	200.0	76	76	33-145	14-164	0	0-20	
Butyl Benzyl Phthalate	200.0	75	74	0-152	0-177	1	0-20	
4-Chloro-3-Methylphenol	200.0	68	67	55-121	44-132	2	0-18	
2-Chlorophenol	200.0	76	75	53-113	43-123	2	0-17	
1,4-Dichlorobenzene	200.0	64	63	50-122	38-134	1	0-19	
Dimethyl Phthalate	200.0	75	73	0-112	0-131	2	0-20	
2,4-Dinitrotoluene	200.0	73	70	41-161	21-181	3	0-22	
Fluorene	200.0	76	75	59-121	49-131	2	0-20	
N-Nitroso-di-n-propylamine	200.0	73	72	56-146	41-161	2	0-22	
Naphthalene	200.0	73	72	21-133	2-152	1	0-20	
4-Nitrophenol	200.0	30	29	1-145	0-169	5	0-29	
Pentachlorophenol	200.0	68	67	34-130	18-146	1	0-23	
Phenol	200.0	39	38	4-142	0-165	2	0-24	
Pyrene	200.0	77	78	38-170	16-192	1	0-27	
1,2,4-Trichlorobenzene	200.0	77	76	49-121	37-133	1	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-03-1691

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

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

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KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4808

Calscience
7440 Lincoln Way
Garden Grove, CA 92841-1427
714-895-5494

12-03-1691

COC No. **80750** Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Scott Forbes

EDF Report? NO

Company/Address: Kiff Analytical

Phone No.: 530-297-4800 | FAX No.: 530-297-4808

Project Number: Bridge Housing | P.O. No.: 80750

Project Name: Bridge Housing

Project Address:

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

Deliverables to (Email Address): inbox@kiffanalytical.com

Sample Designation	Sampling Date	Sampling Time	Container / Preservative: 1-L Amber None	Matrix: Water	Analysis Request: Semi-Volatile Organics by EPA 8270	TAT: 4-Days	For Lab Use Only
SGI-1	03/21/12	09:44	1	X	X	X	1
SGI-2	03/21/12	10:45	1	X	X	X	2
SGI-3	03/21/12	11:50	1	X	X	X	3
SGI-4	03/21/12	12:45	1	X	X	X	4
SGI-5	03/21/12	13:35	1	X	X	X	5

Relinquished by:	Date	Time	Received by:
Kiff Analytical	032312	1900	
	3/24/12	0100	Received by Laboratory:

Remarks:

Bill to: Accounts Payable

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-1691

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: KIFF

DATE: 03/24/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.8 °C - 0.3 °C (CF) = 1.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: YL

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: YL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: TN

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** TN

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** [illegible]

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** [illegible]

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