URS

July 28, 2000

California Environmental Protection Agency
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Attn: Mr. Farhad Azimzadeh

Re: **Recent Groundwater Analytical Results and NPDES Permit No. CAG912002, Order No. 96-078, Shorenstein Realty Services, Parcel T9, 555 12th Street, Oakland**

Dear Mr. Azimzadeh:

URS, on behalf of Shorenstein Realty Services (Shorenstein), is pleased to submit this letter report detailing the analytical results from groundwater samples collected from the recently installed dewatering wells at the subject site. The original intent was to dewater the site during construction using 18 wells at the site and discharge the treated water to the storm drain system under the approved NPDES Permit No. CAG912002, Order No 96-078, Discharge of Extracted and Treated Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites. The permit application was based on groundwater data from two existing wells, one of which indicated 240 µg/L of TPH-diesel. Given the limited amount of groundwater data as noted in our recent discussions, Shorenstein elected to sample each of the subject wells to determine the current groundwater quality across the site. Based on these results described herein, Shorenstein is proposing to alter the configuration of the groundwater dewatering and discharge system. We are hereby seeking your concurrence on the proposed plan described herein.

DESCRIPTION OF FIELD ACTIVITIES

A total of eighteen (18) groundwater dewatering wells (W1 through W18) were installed by Viking Drillers between 5 and 10 July 2000 for the sole purpose of being used during the construction dewatering activities. As such, they were not installed according to the standard of practice for environmental projects. The wells were installed with 20 feet of blank casing and 20 feet of screened casing. Following the installation of the wells, they were developed with the development water being discharged down the filter pack of the neighboring well. Pea gravel was used in the filter packs to maximize the amount of water that each well could produce.

The wells were purged and sampled on July 15 and 16, 2000 by Environmental Sampling Services under subcontract to URS. Groundwater level measurements and total well depths were recorded for each of the wells prior to purging and sample collection. Water level elevations for each well are presented in Table 1.

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During purging, groundwater parameters including temperature, conductivity, and pH were monitored at regular intervals. Groundwater samples were collected following stabilization of the groundwater parameters. Samples were collected in appropriately preserved, laboratory supplied and individually labeled sample containers. Purged water was placed in a temporary storage tank and was also sampled. Following sample collection, the samples were stored on ice in a cooler for transport under standard chain-of-custody procedures to Chromalab Inc. Environmental Services in Pleasanton, California.

The field well data, including approximate purge water volumes, water parameter measurements and sampling times are presented in Attachment 1. Groundwater samples from each of the wells were submitted to the laboratory for analysis of:

- Total petroleum hydrocarbons (TPH) as diesel by EPA Method 8015 M;
- TPH as gasoline; benzene, toluene, ethylbenzene and xylenes (BTEX); and Methyl Tert-Butyl Ether (MTBE) by EPA Method 8020 M;

Samples from four representative wells were also analyzed for:

- Volatile Organic Compounds (VOCs) by EPA Method 8010;
- Metals including antimony, arsenic, beryllium, cadmium, copper, lead, nickel, selenium, silver, thallium, zinc, and mercury, by EPA Method 6010; and
- Cyanide by EPA Method 335.2.

Duplicate groundwater samples were collected and handled similar to that of the regular samples and submitted for the same suite of analyses as listed above. The duplicate samples are used for quality assurance/quality control (QA/QC) purposes. An assessment of the laboratory QA/QC is presented below.

Groundwater samples were collected from 17 of the 18 existing wells (W1 through W3, and W5 through W18). One well (W4) was apparently damaged following installation; thus, a sample could not be collected for analysis due to blockage of the casing with granular material. Additionally, one sample was collected from the purged water tank (Tank).

GROUNDWATER ANALYTICAL RESULTS

A summary of the groundwater analytical results is included in Tables 2 through 5. A graphic representation of the groundwater analytical results is presented in Figure 1. The laboratory reports are provided in Attachment 2. The results are summarized below.

Total Petroleum Hydrocarbons as Diesel – The analytical results for TPH as diesel are summarized in Table 2. TPH as diesel was detected in ten of the 18 samples. The maximum TPH as diesel concentrations was detected at W1 and W14 at 150 and 130 micrograms per liter (µg/L), respectively. These two detection's were qualified with "edr" by the laboratory ("edr" qualifies the result as "hydrocarbon reported in the early diesel range"). The qualification was confirmed by the TPH as gasoline result, as described below. The other eight detection's were qualified with "ndp" (hydrocarbon reported does not match diesel standard) or "nhc" (compounds do not exhibit a pattern characteristic of

petroleum hydrocarbon). The laboratory qualifiers are further defined in the following QA/QC section. The sample from the tank was re-analyzed for TPH as diesel after being passed through a silica gel matrix to remove any potential polar hydrocarbons (i.e., naturally occurring organic material) that may be interfering with the interpretation of the TPH as diesel result. The re-analyzed sample had TPH as diesel below the laboratory detection limit. This result, and the fact that the water of the tank was collected from all the wells at the site, suggests that the source of the qualified results may be polar hydrocarbons, and not related to fuel hydrocarbons. The samples from wells W2, W8, W9, W10, W11, W15, and W16 are currently being re-analyzed following passage through a silica gel matrix, and the results will be provided upon receipt from the laboratory. The results of the re-analysis will be compared to the discharge limits in the NPDES permit referenced above.

Total Petroleum Hydrocarbons as Gasoline; Benzene, Toluene, Ethylbenzene and Xylenes (BTEX); and Methyl Tert-Butyl Ether (MTBE) – The analytical results for TPH as gasoline are summarized in Table 1. TPH as gasoline was detected above the laboratory detection limit in two of the 18 samples (W1 and W14). The sample from well W1 had 540 µg/L and the sample from well W14 had 320 µg/L. Benzene was detected solely in the sample from W1 at 8.5 µg/L. Toluene, ethylbenzene and xylenes were also detected in W1 and W14, at maximum concentrations of 10, 9.5 and 43 µg/L, respectively, all of them in W1. Toluene was also detected in W3 (at 2.5 µg/L) and W12 (4.1 µg/L). No TPH as gasoline, BTEX or MTBE were detected above laboratory detection limits at the other locations. Only the TPH as gasoline and the BTEX results from W1, and the TPH as gasoline and the ethylbenzene result from W14 exceed the discharge limits listed in the NPDES discharge permit referenced above.

Volatile Organic Compounds (VOCs) – The analytical results for VOCs are summarized in Table 3. The VOC results were below laboratory detection limits for all samples analyzed, and are in compliance with the discharge limits listed in the NPDES permit referenced above.

Metals – The analytical results for metals are summarized in Table 4. Antimony, beryllium, cadmium, lead, silver, thallium, and mercury results were below laboratory detection limits for all samples analyzed. Arsenic and nickel were found in three of the four samples with maximum concentrations of 0.0091 and 0.016 milligrams per liter (mg/L), respectively. Copper, selenium, and zinc were each found in one of the four samples. The sample from well W7 had 0.006 mg/L of copper and 0.011 mg/L of zinc, and the sample from W16 had 0.005 mg/L of selenium. To evaluate compliance with NPDES permit requirements, loads have been calculated for those metals encountered above detection limits. Load calculations assumed a "worse case" scenario, that is, all 17 wells will produce water containing the maximum concentrations detected within the sampled wells, and a dewatering rate of 4 gallons per minute (gpm) for 24 hours a day. The results indicate that the loads would be below the discharge limits listed in the NPDES discharge permit referenced above.

Cyanide – The analytical results for cyanide is summarized in Table 5. Cyanide results were below the laboratory detection limit for all samples analyzed, and are in compliance with the discharge limits listed in the NPDES permit referenced above.

QA/QC REVIEW OF ANALYTICAL DATA

Three laboratory qualifiers are associated with diesel results: edr, nhc, and ndp. Some samples appeared to contain a mixture of hydrocarbons that represent the early range of the diesel standard and are qualified

"edr" (early diesel range). Some samples contained a mixture of clustered hydrocarbons that did not match the diesel standard and are qualified "ndp" (not diesel pattern) while other samples contained a few isolated hydrocarbon spikes that are not representative of any known petroleum hydrocarbon and are qualified "nhc" (not petroleum hydrocarbon). The TPH as diesel chromatograms provided by the laboratory were reviewed to further evaluate the qualifiers and the potential for interference of polar hydrocarbons, i.e. naturally occurring organic matter, with the TPH result. The chromatograms for those samples qualified with "nhc" (W8, W15, and W16) showed individual peaks instead of the hump pattern characteristic of fuel related hydrocarbons. The chromatogram for W2 showed individual peaks and a very small hump pattern. The chromatograms for W9 and W10 showed very flat humps with some individual peaks. These samples and W11 will be re-analyzed after passing through a silica gel matrix to help interpret the results, and determine if fuel related hydrocarbons are present in the samples.

One laboratory qualifier is associated with gasoline results: "MTBE". Some samples had MTBE results quantified by EPA Method 8260 rather than EPA Method 8020. This discrepancy is not expected to adversely impact the data and therefore no additional qualification was judged necessary.

Chain of custody procedures was followed and samples were analyzed within the associated method-specific holding time. All trip and method blanks were free of contamination. All spike recoveries and relative percent differences were within control limits indicating acceptable analytical accuracy and precision. Field duplicate pairs had good agreement indicating acceptable analytical precision. In summary, the data reviewed are of acceptable precision and accuracy for project purposes.

PROPOSED DEWATERING AND DISCHARGE PLAN

Dewatering of the soils is required during excavation activities for the construction of a high-rise building foundation. Dewatering activities are estimated to begin the week starting July 31, 2000, and will proceed for approximately three months. Discharges from the dewatering system to the stormwater drainage system will be managed according to the intent of the subject NPDES Permit, and effluent concentrations will not exceed the stated limitations without appropriate notification of the RWQCB.

As discussed in our meeting on July 21, 2000, Shorenstein is proposing to dewater the site utilizing all the wells and provide carbon treatment for the wells with detectable petroleum hydrocarbon concentrations. Given the qualified diesel results presented herein and the expected outcome of the silica gel cleanup procedure, it is believed that only wells W1, W11 and W14 will have detectable concentrations of petroleum hydrocarbons. Carbon treatment will be provided for wells W1 and W14 because of the detection's of TPH-gasoline and BTEX, as well as the two wells located closest to these wells (W13 and W18). Also, carbon treatment will be provided for well W11 due to the detection of TPH-diesel, as well as well W12 which, is located between W11 and W14. In summary, six wells (W1, W11, W12, W13, W14, and W18) will be pumped through a carbon treatment system.

The granular activated carbon treatment system will consist of a flow equalization tank, transfer pump, particulate filter, and a single 1000-pound carbon vessel. The carbon treatment system will have sufficient capacity to remove the hydrocarbons such that the effluent meets the limitations expressed in the NPDES Permit for the duration of the project. Influent and effluent from the carbon treatment system will be monitored pursuant to the Self-Monitoring Program of the NPDES Permit separately from the non-treated system described below.

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For the wells with non-detectable petroleum hydrocarbon concentrations, the system will consist of dewatering from wells W2, W3, W5, W6, W7, W8, W9, W10, W15, W16, and W17 with no carbon as treatment. Well W4 will not be utilized since it was damaged following installation. The extracted water will be routed to a flow equalization tank and particulate filter prior to discharge to the stormwater drainage system pursuant to the Self-Monitoring Program of the NPDES Permit. During the pumping, groundwater levels will be measured to confirm draw down of the water level to the intended level required for building construction.

If you have any questions regarding the proposed plan, or require any additional information, please contact me at (510) 874-3027.

Sincerely,

URS CORPORATION

Jay B. Clare, P.E.
Project Manager

cc: Susan L. Hugo, Alameda County Health Agency
Nicholas Loukianoff, Shorenstein Realty Services
Calvin Yoshida, Pankow Builders
Margaret Rosegay, Pillsbury, Madison & Sutro LLP

Table 1
Groundwater Elevations at Parcel T9, Oakland

Well No.	Casing Elevation (Ft C.O.O.D.)	Depth to Water (Ft bTOC)	Groundwater Elevation (Ft C.O.O.D.)
W-1	35.539	25.05	10.489
W-2	36.567	26.12	10.447
W-3	38.912	28.39	10.522
W-4	40.666	None	NA
W-5	38.982	28.83	10.152
W-6	38.232	28.21	10.022
W-7	36.706	26.88	9.826
W-8	36.308	26.61	9.698
W-9	36.265	26.77	9.495
W-10	36.446	27.03	9.416
W-11	35.307	25.84	9.467
W-12	34.937	25.43	9.507
W-13	34.244	24.67	9.574
W-14	32.244	22.47	9.774
W-15	34.193	24.28	9.913
W-16	34.422	24.35	10.072
W-17	34.664	24.46	10.204
W-18	34.525	24.18	10.345

Elevations relative to City of Oakland Datum (C.O.O.D.)
bTOC = below top of well casing

Table 2- TPH Diesel (EPA 8015M) and TPH gas, BTEX and MTBE (EPA 8020) Analytical Results (µg/L)

	Tank	W1	W2	W3	W5	W6	W7	W8	W9	W10	W11	W12	W13	W13 DUP	W14	W15	W16	W17	W18	W18 DUP
DIESEL	110	150	67	<50	<50	<50	<50	67	82	55	100	<50	<50	<50	130	55	56	<50	<50	<50
GASOLINE	<50	540	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	320	<50	<50	<50	<50	<50
BENZENE	<0.50	8.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TOLUENE	<0.50	10	<0.50	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	<0.50	<0.50	0.96	<0.50	<0.50	<0.50	<0.50	<0.50
ETHYL BENZENE	<0.50	9.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6.2	<0.50	<0.50	<0.50	<0.50	<0.50
XYLENE(S)	<0.50	43	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.2	<0.50	<0.50	<0.50	<0.50	<0.50
MTBE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Note: Several of the TPH diesel result have been qualified by the laboratory. For laboratory qualifiers referred to the attached Figure 1.

Table 3- VOCs (EPA 8010) Analytical Results (µg/L)

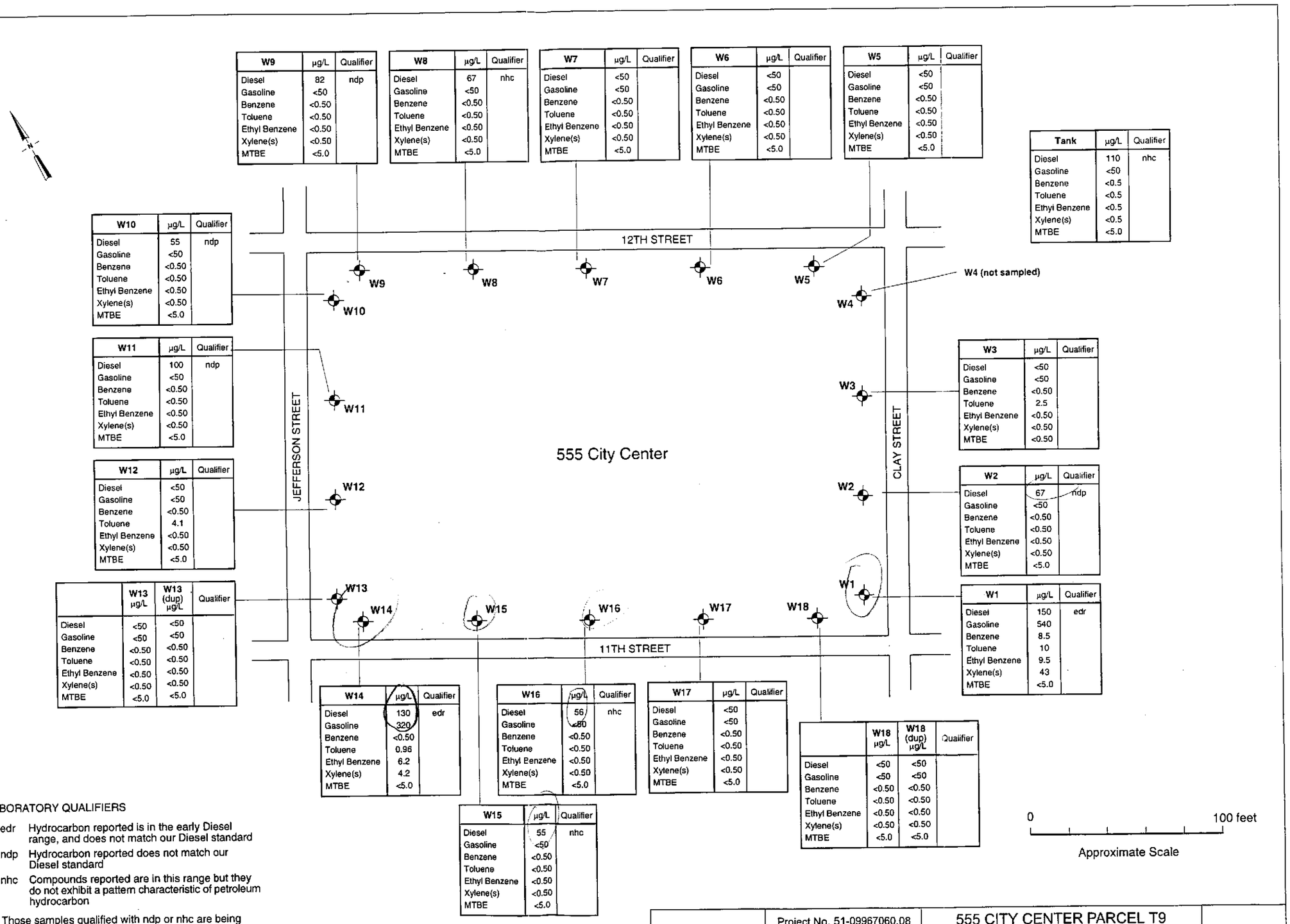
	W1	W7	W11	W16	W16 DUP
DICHLORODIFLUOROMETHANE	<1.0	<1.0	<1.0	<1.0	<1.0
VINYL CHLORIDE	<0.50	<0.50	<0.50	<0.50	<0.50
CHLOROETHANE	<0.50	<0.50	<0.50	<0.50	<0.50
TRICHLOROFLUOROMETHANE	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-DICHLOROETHENE	<0.50	<0.50	<0.50	<0.50	<0.50
METHYLENE CHLORIDE	<5.0	<5.0	<5.0	<5.0	<5.0
TRANS-1,2-DICHLOROETHENE	<0.50	<0.50	<0.50	<0.50	<0.50
CIS-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
CHLOROFORM	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-TRICHLOROETHANE	<0.50	<0.50	<0.50	<0.50	<0.50
CARBON TETRACHLORIDE	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-DICHLOROETHANE	<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
BROMOICHLOROMETHANE	<0.50	<0.50	<0.50	<0.50	<0.50
2-CHLOROETHYLVINYL ETHER	<0.50	<0.50	<0.50	<0.50	<0.50
TRANS-1,23-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
TETRACHLOROETHENE	<0.50	<0.50	<0.50	<0.50	<0.50
DIBROMOCHLOROMETHANE	<0.50	<0.50	<0.50	<0.50	<0.50
CHLOROBENZENE	<0.50	<0.50	<0.50	<0.50	<0.50
BROMOFORM	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	<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
1,2-DICHLOROBENZENE	<0.50	<0.50	<0.50	<0.50	<0.50
TRICHLOROTRIFLUOROETHANE	<2.0	<2.0	<2.0	<2.0	<2.0
CHLOROMETHANE	<1.0	<1.0	<1.0	<1.0	<1.0
BROMOMETHANE	<1.0	<1.0	<1.0	<1.0	<1.0

Table 4- Metals (EPA 6010) Analytical Results (mg/L)

	W2	W7	W11	W16	W16 DUP
ANTIMONY	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
ARSENIC	**0.0055**	**0.0058**	<0.0050	**0.0091**	**0.0075**
BERYLLIUM	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
CADMIUM	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
COPPER	<0.0050	**0.006**	<0.0050	<0.0050	<0.0050
LEAD	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
NICKEL	**0.012**	**0.013**	<0.0050	**0.016**	**0.017**
SELENIUM	<0.0050	<0.0050	<0.0050	**0.005**	**0.005**
SILVER	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
THALLIUM	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
ZINC	<0.010	**0.011**	<0.010	<0.010	<0.010
MERCURY	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

Table 5- Cyanide (EPA 335.2) Analytical Results (mg/L)

	W2	W7	W11	W16	W16 DUP
CYANIDE	<0.01	<0.01	<0.01	<0.01	<0.01



W9	µg/L	Qualifier
Diesel	82	ndp
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

W8	µg/L	Qualifier
Diesel	67	nhc
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

W7	µg/L	Qualifier
Diesel	<50	
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

W6	µg/L	Qualifier
Diesel	<50	
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

W5	µg/L	Qualifier
Diesel	<50	
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

Tank	µg/L	Qualifier
Diesel	110	nhc
Gasoline	<50	
Benzene	<0.5	
Toluene	<0.5	
Ethyl Benzene	<0.5	
Xylene(s)	<0.5	
MTBE	<5.0	

W10	µg/L	Qualifier
Diesel	55	ndp
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

W11	µg/L	Qualifier
Diesel	100	ndp
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

W12	µg/L	Qualifier
Diesel	<50	
Gasoline	<50	
Benzene	<0.50	
Toluene	4.1	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

	W13 µg/L	W13 (dup) µg/L	Qualifier
Diesel	<50	<50	
Gasoline	<50	<50	
Benzene	<0.50	<0.50	
Toluene	<0.50	<0.50	
Ethyl Benzene	<0.50	<0.50	
Xylene(s)	<0.50	<0.50	
MTBE	<5.0	<5.0	

W14	µg/L	Qualifier
Diesel	130	edr
Gasoline	320	
Benzene	<0.50	
Toluene	0.96	
Ethyl Benzene	6.2	
Xylene(s)	4.2	
MTBE	<5.0	

W15	µg/L	Qualifier
Diesel	55	nhc
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

W16	µg/L	Qualifier
Diesel	56	nhc
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

W17	µg/L	Qualifier
Diesel	<50	
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

	W18 µg/L	W18 (dup) µg/L	Qualifier
Diesel	<50	<50	
Gasoline	<50	<50	
Benzene	<0.50	<0.50	
Toluene	<0.50	<0.50	
Ethyl Benzene	<0.50	<0.50	
Xylene(s)	<0.50	<0.50	
MTBE	<5.0	<5.0	

W3	µg/L	Qualifier
Diesel	<50	
Gasoline	<50	
Benzene	<0.50	
Toluene	2.5	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<0.50	

W2	µg/L	Qualifier
Diesel	67	ndp
Gasoline	<50	
Benzene	<0.50	
Toluene	<0.50	
Ethyl Benzene	<0.50	
Xylene(s)	<0.50	
MTBE	<5.0	

W1	µg/L	Qualifier
Diesel	150	edr
Gasoline	540	
Benzene	8.5	
Toluene	10	
Ethyl Benzene	9.5	
Xylene(s)	43	
MTBE	<5.0	

LABORATORY QUALIFIERS

- edr Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard
- ndp Hydrocarbon reported does not match our Diesel standard
- nhc Compounds reported are in this range but they do not exhibit a pattern characteristic of petroleum hydrocarbon

Those samples qualified with ndp or nhc are being reanalyzed for TPH as Diesel after silica gel cleaning.

URS	Project No. 51-09967060.08 Parcel T9	555 CITY CENTER PARCEL T9 LOCATIONS OF DEWATERING WELLS AND ANALYTICAL RESULTS (July 15, 2000)	Figure 1

FIELD ACTIVITY REPORT

GROUNDWATER MONITORING
555 CITY CENTER
OAKLAND, CALIFORNIA

JULY, 2000

Prepared for: UPS
500 12th Street, Suite 200
Oakland, California 94607

By: Environmental Sampling Services
PMB 102
6680 Alhambra Avenue
Martinez, California 94553-6105

Date Prepared: July 24, 2000

Environmental
Sampling Services

FIELD ACTIVITY REPORT FOR
555 City Center
Oakland, California
July 15 and 16, 2000

Project Task: Groundwater Monitoring
ESS Personnel: Stephen Penman and Casey Wheable
Date of Activities: July 15 and 16, 2000

Decontamination Procedures

All downhole monitoring and sampling equipment was cleaned with a solution of LiquiNox® laboratory-grade detergent and tap water, rinsed with tap water, followed by a final rinse with distilled water.

Water Level and Total Depth Measurements

A total of eighteen (18) wells were measured for static water level and total depth. All readings were performed with a Solinst® water level indicator (Summary Table). Water level measurements were referenced to the north rim of each well casing.

Field Equipment Calibration

All field measurements were performed in accordance with the instruments' calibration and operating procedures. Field measurements included: pH, specific conductance, turbidity, and temperature (see water quality sample log sheets).

Well Purging/Sample Collection

All wells were purged and sampled using the GrundFos Redi-flow pump and new PVC tubing at each well location. Samples were collected after a minimum of three casing volumes was removed and water quality parameters had stabilized. All samples were properly preserved according to analysis. Sample containers were placed in a ziplock bag and stored in a chilled cooler for storage and shipment to the laboratory.

A composite sample was collected from the poly tank and was labeled "Tank". The poly tank contained purged groundwater from each well and all the decontamination water produced for this project.

QA/QC

One set of Trip blanks for EPA Method 8015M TPHg, BTEX and MTBE was submitted. Three wells - W13, W16 and W18 were sampled in duplicate (see summary table).

No other QA/QC samples were requested.

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Comments

Well W4 could not be sampled. This well was full of gravel up to 10.36 feet below top of casing.

All work was performed under satisfactory workmanship and according to URS's directive.

Stephen Penman
Vice President

Enclosure
Summary Table
Water Sample Log Sheets
Chain of Custody

Environmental
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555 City Center, Oakland Summary Table

Well I.D.	Depth to Water	Total Depth	Gallons Purged	Casing Volumes Removed	Date Sampled	Time Sampled	QA/QC	Comments
W1	25.05	40.48	124.5	3.1	7/16/00	11:10	-	
W2	26.12	40.48	118	3.1	7/16/00	12:02	-	
W3	28.39	41.97	114	3.2	7/16/00	12:57	-	
W4	NA	10.36	NA	NA	NA	NA	-	Well was filled with gravel.
W5	28.83	39.70	94.5	3.3	7/16/00	15:48	-	
W6	28.21	40.08	97	3.1	7/16/00	16:25	-	
W7	26.88	39.62	110	3.3	7/15/00	21:05	-	
W8	26.61	35.89	79	3.3	7/16/00	15:08	-	
W9	26.77	39.26	123	3.7	7/16/00	14:18	-	
W10	27.03	38.48	92.5	3.1	7/15/00	12:05	-	
W11	25.84	40.60	123	3.2	7/15/00	15:40	-	
W12	25.43	39.39	110.5	3.04	7/15/00	13:33	-	
W13	24.67	39.56	122	3.1	7/15/00	16:50	Duplicate	W13Dup @ 16:50
W14	22.47	32.77	88.5	3.3	7/15/00	17:50	-	
W15	24.28	35.86	93.5	3.1	7/15/00	18:35	-	
W16	24.35	38.96	123	3.2	7/15/00	19:23	Duplicate	W16Dup @ 19:23
W17	24.46	39.22	175	4.6	7/15/00	11:08	-	
W18	24.18	32.39	86	4.0	7/15/00	10:00	Duplicate	W18Dup @ 10:00
Tank	NA	NA	NA	NA	7/16/00	16:35	-	Purge/Decon Water Composite Sample

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: W1 | DATE: 7/16/00

Project Name: 555 City Center - Oakland | Project No.: 5109967060.08 Task 00000

Weather Conditions: Overcast and Cool

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? Yes (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well cap labeled #369

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox (Liqui-nox Tap Water DI Rinse) Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/16 10:30 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 25.05 Water Level Prior To Sampling: 26.56

TD = 40.48 - 25.05 (DTW) = 15.43 (ft.of water) x "K" = 40.3 (Gals./CV) x 3 (No. of CV) = 120.9 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("k" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/16/00	10:47	20	8.75	18.9	631	1076	Brown	
	10:49	40	7.61	18.5	612	682	"	
	10:54	60	7.40	19.2	538	1187	"	
	10:58	80	7.22	19.2	595	660	"	
	11:02	100	7.20	19.1	512	935	"	
V	11:07	120	7.20	19.0	538	653	"	

Total Discharge: 124.5 gallons Casing Volumes Removed: 3.1

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/16/00 @ 11:10 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W2 DATE: 7/16/00

Project Name: 555 City Center Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: overcast and cool

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? Yes (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well Cap labeled #370

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New) / Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox (Liqui-nox Tap Water DI Rinse) Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/16 @ 10:30 (4 7 10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 26.12 Water Level Prior To Sampling: 26.88

TD = 40.48 - 26.12 (DTW) = 14.36 (ft.of water) x "K" = 37.5 (Gals./CV) x 3 (No. of CV) = 112.5 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("k" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/16/00	11:39	20	7.47	18.9	760	233	Slightly cloudy Lt Brn.	
"	11:43	40	7.28	19.1	729	335	"	
"	11:46	60	7.23	19.3	691	51.7	"	
"	11:50	80	7.18	19.3	684	51.3	"	
"	11:54	100	7.17	19.2	669	67.5	cloudy Lt. Brown	
↓	11:57	115	7.14	19.1	648	52.6	"	

Total Discharge: 118 gallons Casing Volumes Removed: 3.1

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/16/00 @ 12:02 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W3	DATE: 7/16/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: Overcast and Cool

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? Yes / (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well cap labeled # 371

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox (Liqui-nox Tap Water DI Rinse) Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/16/00 0907 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 28.39 Water Level Prior To Sampling: 29.19

TD = 41.97 - 28.39 (DTW) = 13.58 (ft.of water) x "K" = 35.4 (Gals./CV) x 3 (No. of CV) = 106.2 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("k" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/16/00	12:37	20	7.21	19.3	509	21.3	Clear	
↓	12:41	40	7.02	19.5	548	103	cloudy Lt. Brown	
	12:45	60	6.89	19.7	601	124	"	
	12:49	80	6.92	19.6	550	86.4	"	
	12:53	100	6.88	19.5	628	56.7	"	
	12:55	110	6.87	19.7	629	48.0	"	

Total Discharge: 114 gallons Casing Volumes Removed: 3.2

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/16/00 @ 12:57 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W4	DATE: 7/16/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: Overcast and cool.

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? Yes (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well Cap is labeled # 372 This well is filled w/gravel to 10.3'

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump GrundFos Redi-flow Pump Other:_____

Pump Lines: NA New / Cleaned / Dedicated Bailer Line: NA New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox Liqui-nox Tap Water DI Rinse Other:_____

Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer GrundFos Redi-flow Pump Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/16 @ 10:30 (4 7 10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): NA Water Level Prior To Sampling:_____

TD = 10.30 - NA (DTW) = _____ (ft.of water) x "K" = _____ (Gals./CV) x 3 (No. of CV) = _____ (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS uS	Turbidity (NTU's)	Color	Comments

Total Discharge: _____ gallons Casing Volumes Removed:_____

Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other:_____

Date/Time Sampled: NA @_____ Analysis/No. of Bottles: See Chain of Custody

QA/QC: ____ @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: This well can not be Sampled it is filled with gravel to 10.3' below Top of Casing

Sampled By: Jacki Lee and Stephen Penman Signature(s):

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W5	DATE: 7/16/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: Overcast & Cool

Well Description: 2" 3.5" 4" 6" (8") Other ___ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? Yes (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well Cap labeled # 373

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox (Liqui-nox Tap Water DI Rinse) Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/16 @ 10:30 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 28.83 Water Level Prior To Sampling: 31.07

TD = 39.30 - 28.83 (DTW) = 10.87 (ft.of water) x "K" = 28.3 (Gals./CV) x 3 (No. of CV) = 84.9 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) (K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/16/00	15:28	15	7.45	20	639	1039	Brown	
↓	15:31	30	7.36	20.1	682	1204	"	
	15:35	45	7.30	20.6	691	1240	"	
	15:37	60	7.35	20.7	686	988	"	
	15:40	75	7.22	20.7	692	1030	"	
↓	15:44	90	7.19	20.7	691	1089	"	

Total Discharge: 94.5 gallons Casing Volumes Removed: 3.3

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/16/00 @ 15:48 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W6	DATE: 7/16/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: overcast and cool

Well Description: 2" 3.5" 4" 6" (8") Other ___ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? Yes (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well cap labeled #374

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox (Liqui-nox Tap Water DI Rinse) Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/16/0:20 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 28.21 Water Level Prior To Sampling: 31.06

TD = 40.08 - 28.21 (DTW) = 11.87 (ft.of water) x "K" = 31 (Gals./CV) x 3 (No. of CV) = 93 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) (K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/16/00	16:06	15	7.30	19.9	505	577	Lt. Brown	
	16:10	30	7.29	20.0	526	525	"	
	16:13	45	7.27	20.2	523	1002	Brown	
	16:15	60	7.26	20.2	506	859	"	
	16:18	75	7.24	20.2	528	985	"	
↓	16:20	90	7.21	20.2	529	866	"	

Total Discharge: 97 gallons Casing Volumes Removed: 3.1

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/16/00 @ 16:25 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W7 DATE: 7/15/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: Overcast and Cool

Well Description: 2" 3.5" 4" 6" (8") Other ___ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? Yes (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well Cap labeled # 375

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox) Tap Water DI Rinse Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) AE

Date/Time Calibrated: 7/15 09:00 (4 7 10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 26.88 Water Level Prior To Sampling: 28.04

TD = 39.62 - 26.88 (DTW) = 12.74 (ft.of water) x "K" = 33.3 (Gals./CV) x 3 (No. of CV) = 99.9 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	20:43	15	8.35	19.3	501	1309	Brown	
	20:46	30	8.21	19.6	500	1340	"	
	20:49	45	8.02	19.9	489.7	876	"	
	20:52	60	7.81	19.9	474.0	1042	"	
	20:54	75	7.71	19.8	463.9	642	"	
	20:57	90	7.58	19.7	454.6	480	Lt. Brown	
↓	21:00	105	7.50	19.7	450.6	357	"	

Total Discharge: 110 gallons Casing Volumes Removed: 3.3

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/15/00 @ 21:05 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ---- as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W8	DATE: 7/16/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: overcast and Cool

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:____

Is Well Secured? Yes / No Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: well cap labeled # 376

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:____

Pump Lines: NA (New) / Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox (Liqui-nox) Tap Water DI Rinse Other:____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/16 12:30 (4.0) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 26.61 Water Level Prior To Sampling: 28.68

TD = 35.89 - 26.61 (DTW) = 9.28 (ft.of water) x "K" = 24.2 (Gals./CV) x 3 (No. of CV) = 72.6 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/16/00	14:50	15	7.46	19.1	302.9	824	Brown	
	14:52	30	7.70	19.3	306.1	1026	"	
	14:56	45	7.76	19.3	291.3	1002	"	
	14:59	60	7.88	19.5	278.5	1001	"	
↓	15:04	75	7.88	19.6	265.9	1175	"	

Total Discharge: 79 gallons Casing Volumes Removed: 3.3

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:____

Date/Time Sampled: 7/16/00 @ 15:08 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacki Lee and Stephen Penman Signature(s): [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W9	DATE: 7/16/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: Overcast and Cool

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:____

Is Well Secured? Yes / (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: well cap labeled # 377

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox (Liqui-nox Tap Water DI Rinse) Other:____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/16 @ 10:30 (4.0) (7.0) (10.0) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 26.77 Water Level Prior To Sampling: 28.88

TD = 39.26 - 26.77 (DTW) = 12.49 (ft.of water) x "K" = 32.6 (Gals./CV) x 3 (No. of CV) = 97.8 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("k" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/16/00	13:46	15	8.40	19.3	286.9	1255	Brown	
	13:50	30	8.28	19.3	274.7	1056	"	
	13:52	45	8.18	19.5	265.5	1054	"	
	13:57	60	8.05	19.5	260.8	1213	"	
	14:02	75	7.93	19.7	267.5	1054	"	
	14:07	90	7.80	19.7	279.6	984	"	
	14:10	100	7.70	19.7	274.6	644	"	
	14:14	110	7.60	19.7	279.8	351	Lt Brown	
↓	14:17	120	7.56	19.8	273.6	260	"	

Total Discharge: 123 gallons Casing Volumes Removed: 3.7

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:____

Date/Time Sampled: 7/16/00 @ 14:18 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacki Lee and Stephen Penman Signature(s): [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W10	DATE: 7/15/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: sunny and warm

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? Yes (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well Cap labeled # 378

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New / Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox Tap Water DI Rinse) Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/15 09:00 (4.00) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 27.03 Water Level Prior To Sampling: 28.46

TD = 38.48 - 27.03 (DTW) = 11.45 (ft.of water) x "K" = 29.9 (Gals./CV) x 3 (No. of CV) = 89.6 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("k" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	11:47	15	7.70	20.6	305.0	495	cloudy	
	11:50	30	7.75	20.4	309.1	1192	brown	
	11:53	45	7.78	20.4	308.0	1086	"	
	11:55	60	7.74	20.5	306.6	1046	"	
	11:58	75	7.73	20.5	306.1	1001	"	
V	12:01	90	7.72	20.5	305.0	801	"	

Total Discharge: 92.5 gallons Casing Volumes Removed: 3.1

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/15/00 @ 12:05 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W11	DATE: 7/15/00

Project Name: 555 City Center Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: Sunny warm

Well Description: 2" 3.5" 4" 6" (8") Other ___ Well Type: (PVC) Stainless Steel Other:___

Is Well Secured? Yes / (No) Bolt Size N/A Type of lock / Lock number: no lock

Observations / Comments: well cap labeled #379

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:___

Pump Lines: NA (New) / Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox Tap Water DI Rinse) Other:___

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:___

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:___

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/15 7:00 (4.7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:___

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 25.84 Water Level Prior To Sampling: 27.01

TD = 40.60 - 25.84 (DTW) = 14.76 (ft.of water) x "K" = 38.5 (Gals./CV) x 3 (No. of CV) = 115.6 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) (K" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	14:56	20	7.90	20.6	348.2	402	Tan	
	15:03	40	7.68	20.4	348.5	29.4	Slightly cloudy	
	15:11	60	7.58	20.1	350.6	3.99	Clear	
	15:19	80	7.53	20.2	351.4	1.49	"	
	15:27	100	7.49	20.2	355.3	0.98	"	
	15:36	120	7.43	20.3	355.2	0.51	"	
		90 HR						

Total Discharge: 123 gallons Casing Volumes Removed: 3.2

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:___

Date/Time Sampled: 7/15/00 @ 15:40 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ___ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ___

Sampled By: Jacki Lee and Stephen Penman Signature(s): Stephen Penman

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W12 DATE: 7/15/00

Project Name: 555 City Center Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: Sunny and warm

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? (Yes) No Bolt Size N/A Type of lock / Lock number: no lock

Observations / Comments: Well cap labeled #380

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox Tap Water DI Rinse) Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 (330089) Spec. Cond. Meter Serial No.: (96H0203AB) AE

Date/Time Calibrated: 7/15 0830 (1000) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 25.43 Water Level Prior To Sampling: 26.68

TD = 39.39 - 25.43 (DTW) = 13.96 (ft.of water) x "K" = 36.4 (Gals./CV) x 3 (No. of CV) = 109 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	13:13	15	7.45	20.4	764	104	cloudy	
	13:16	30	7.36	20.4	790	820	tan	
	13:18	45	7.35	20.2	806	1226	brown	
	13:21	60	7.28	20.3	811	1340	"	
	13:23	75	7.18	20.2	819	817	Tan	
	13:25	90	7.15	20.1	820	645	"	
	13:27	105	7.14	20.3	814	696	"	

Total Discharge: 110.5 gallons Casing Volumes Removed: 3.04

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/15/00 @ 13:33 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W13	DATE: 7/15/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: sunny and warm

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:____

Is Well Secured? Yes (No) Bolt Size N/A Type of lock / Lock number: no locks

Observations / Comments: well cap labeled #381

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox) Tap Water DI Rinse Other:____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:____

pH Meter Serial No.: 217254 (330089) Spec. Cond. Meter Serial No.: (96H0203AB) AE

Date/Time Calibrated: 7/15@900 @0010 @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: N/A ppm @ Well Head

Water Level at Start (DTW): 24.67 Water Level Prior To Sampling: 24.80

TD = 39.56 - 24.67 (DTW) = 14.89 (ft.of water) x "K" = 38.9 (Gals./CV) x 3 (No. of CV) = 116.7 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	16:20	20	7.81	20.3	474.2	316	Brown	
↓	16:24	40	7.70	20.1	468.2	198	"	
	16:28	60	7.62	20.0	470.5	633	"	
	6:34	80	7.50	20.0	471.7	1034	"	
	16:39	100	7.38	20.0	470.3	648	lt. Brown	
↓	16:44	120	7.34	20.0	468.4	275	"	

Total Discharge: 122 gallons Casing Volumes Removed: 3.1

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:____

Date/Time Sampled: 7/15/00 @ 16:50 Analysis/No. of Bottles: See Chain of Custody

QA/QC: W13Dup @ 16:50 as an Equipment Blank (Duplicate) MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacki Lee and Stephen Penman Signature(s): [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W14	DATE: 7/15/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: overcast & cool

Well Description: 2" 3.5" 4" 6" (8") Other ___ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? Yes / (No) Bolt Size NA Type of lock / Lock number: No lock

Observations / Comments: Well Cap labeled #382

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other: _____

Pump Lines: NA (New) / Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox) (Tap Water) (DI Rinse) Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other: _____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/15 @ 9:00 (4.00) (7.00) (10.0) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other: _____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 22.47 Water Level Prior To Sampling: 25.18

TD = 32.77 - 22.47 (DTW) = 10.3 (ft.of water) x "K" = 26.9 (Gals./CV) x 3 (No. of CV) = 80.7 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	17:31	15	8.13	19.9	228.6	635	Brown	
	17:34	30	8.33	20.1	229.4	566	"	
	17:39	45	8.44	20.0	221.8	865	"	
	17:41	60	8.54	20.2	201.8	757	"	
	17:44	75	8.50	20.2	202.6	1111	"	
↓	17:45	85	8.49	20.2	204.8	1086	"	

Total Discharge: 88.5 gallons Casing Volumes Removed: 3.3

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other: _____

Date/Time Sampled: 7/15/00 @ 17:50 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W15	DATE: 7/15/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: overcast & cool

Well Description: 2" 3.5" 4" 6" (8) Other ____ Well Type: (PVC) Stainless Steel Other:_____

Is Well Secured? Yes / (No) Bolt Size NA Type of lock / Lock number: No lock

Observations / Comments: Well Cap labeled #383

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox) Tap Water DI Rinse Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) AE

Date/Time Calibrated: 7/15 @ 900 (4.0) (7.0) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 24.28 Water Level Prior To Sampling: 25.17

TD = 35.86 - 24.28 (DTW) = 11.58 (ft.of water) x "K" = 30.2 (Gals./CV) x 3 (No. of CV) = 90.7 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	18:16	15	8.35	19.3	235.1	800	Brown	
	18:18	30	8.25	19.6	210.4	870	"	
	18:21	45	8.17	19.6	194.0	989	"	
	18:23	60	8.11	19.7	189.6	1045	"	
	18:26	75	8.08	19.7	186.4	1029	"	
↓	18:29	90	8.09	19.6	186.5	892	"	

Total Discharge: 93.5 gallons Casing Volumes Removed: 3.1

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/15/00 @ 18:35 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W16 DATE: 7/15/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: overcast & cool

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? Yes (No) Bolt Size NA Type of lock / Lock number: No lock

Observations / Comments: well cap is labeled #384

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other: _____

Pump Lines: NA (New) / Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox) Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other: _____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) AE

Date/Time Calibrated: 7/15 @ 0900 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other: _____

Method to Measure Water Level: Solinst Serial No.: 21754 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 24.35 Water Level Prior To Sampling: 25.56

TD = 38.96 - 24.35 (DTW) = 14.61 (ft.of water) x "K" = 38.1 (Gals./CV) x 3 (No. of CV) = 114.4 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("k" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	18:56	20	7.72	18.8	631	1073	Brown	
↓	18:59	40	7.58	19.0	616	1050	"	
	19:03	60	7.50	19.0	630	1203	"	
	19:08	80	7.40	18.9	645	1165	"	
	19:13	100	7.33	18.9	658	574	Lt. Brown	
↓	19:19	120	7.33	18.8	650	195	Cloudy Lt. Brown	
		123 ~~gal~~						

Total Discharge: 123 gallons Casing Volumes Removed: 3.2

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other: _____

Date/Time Sampled: 7/15/00 @ 19:23 Analysis/No. of Bottles: See Chain of Custody

QA/QC: W16 Dup @ 19:23 as an Equipment Blank (Duplicate) MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W17 DATE: 7/15/00

Project Name: 555 City Center - Oakland Project No.: 5109967060.08 Task 00000

Weather Conditions: overcast and cool

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type: (PVC) Stainless Steel Other:____

Is Well Secured? Yes (No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well Cap labeled #385

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:____

Pump Lines: NA (New) / Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox) Tap Water DI Rinse Other:____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/15 09:00 (4.0) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:____

Method to Measure Water Level: Solinst Serial No.: 21758 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 24.46 Water Level Prior To Sampling: 26.26

TD = 39.22 - 24.46 (DTW) = 14.76 (ft.of water) x "K" = 38.5 (Gals./CV) x 3 (No. of CV) = 116 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("K" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	10:41	20	7.62	19.2	521	972	brown	
	10:44	40	7.95	19.2	630	522	"	
	10:48	60	8.05	19.4	659	246	brown	
	10:51	80	7.98	19.3	680	173	lt brown	
	10:54	100	7.84	19.5	684	231	"	
	10:57	120	7.66	19.6	673	441	brown	
	11:00	140	7.62	19.7	660	899	"	
↓	11:04	160	7.53	19.5	662	1072	"	

Total Discharge: 175 gallons Casing Volumes Removed: 4.6

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:____

Date/Time Sampled: 7/15/00 @ 11:08 Analysis/No. of Bottles: See Chain of Custody

QA/QC: None @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacki Lee and Stephen Penman Signature(s): [signature]

PMB 102 • 6680 Alhambra Ave. • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: W-18 DATE: 7/15/00

Project Name: 555 City Center - OAKLAND Project No.: 5109967060.08 Task 00000

Weather Conditions: overcast & cool

Well Description: 2" 3.5" 4" 6" (8") Other ____ Well Type (PVC) Stainless Steel Other:_____

Is Well Secured? Yes /(No) Bolt Size NA Type of lock / Lock number: No Lock

Observations / Comments: Well Cap Locked # 386

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump (GrundFos Redi-flow Pump) Other:_____

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox (Liqui-nox) Tap Water (DI Rinse) Other:_____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other:_____

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer (GrundFos Redi-flow Pump) Other:_____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 7/15 @ 9:00 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other:_____

Method to Measure Water Level: Solinst Serial No.: 21958 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 24.18 Water Level Prior To Sampling: 25.79

TD = 32.39 - 24.18 (DTW) = 8.21 (ft.of water) x "K" = 7.48 (Gals./CV) x 3 (No. of CV) = 64.3 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) ("k" = 2.61(8" well))

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
7/15/00	9:40	10	8.36	19.0	878	181	tan	
	9:41	20	7.94	19.0	839	924	brown	
	9:42	30	7.88	19.1	804	317	Brown	
	9:49	40	7.88	19.2	742	121	"	
	9:50	50	7.85	19.3	728	115	tan	
	9:52	60	7.83	19.2	716	158	tan	
	9:54	70	7.81	19.1	697	325	brown	
↓	9:55	80	7.81	19.1	686	332	"	

Total Discharge: 86 gallons Casing Volumes Removed: 4

Method of disposal of discharged water: 55 Gallon Drum(s) (Poly Tank) Treatment System Other:_____

Date/Time Sampled: 7/15/00 @ 10:00 Analysis/No. of Bottles: See Chain of Custody

QA/QC: MW18DUP @ 10:00 as an Equipment Blank (Duplicate) MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): _____

PMB 102 • 6680 Alhambra Ave. • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

URS Greiner Woodward Clyde
500 12th Street, Suite 200, Oakland, CA 94607-4014
510.893.3600

Chain of Custody Record

PROJECT NO.

SAMPLERS: (Signature)

DATE	TIME	SAMPLE NUMBER	Sample Matrix (S)oil, (W)ater, (A)ir	ANALYSES: EPA Method	EPA Method	EPA Method	EPA Method									Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
						X	X	X	X							4	
								X	X							5	*) TOTAL METALS IN UNPRESERVED CONTAINER - FILTER AND
				X	X	X	X	X	X	X						12	
								X	X							5	
								X	X							5	**) FILL SAMPLE IN UNPRESERVED
								X	X							5	
								X	X							5	BOTTLE FOR
				X	X	X	X	X	X	X						12	METALS -
								X	X							5	Detection limits
								X	X							5	
								X	X							5	Ag - 0.2 µg/L
				X	X	X	X	X	X	X						12	Cd - 2 µg/L
								X	X							5	
								X	X							5	As, Cr, Co, Pb,
								X	X							5	Mo, Ni Ag - 5 µg/L
								X	X							5	
				X	X	X	X	X	X	X						12	Cu, Tl, Zn 10 µg/L
								X	X							5	
								X	X							5	Se - 30 µg/L
								X								3	
				X	X	X	X			X						8	**) Flow on field
								X	X							5	
								X	X							5	

TOTAL NUMBER OF CONTAINERS: 142

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME

URS Greiner Woodward Clyde- Oakland
500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn.: Almudena Villanueva

Attached is our report for your samples received on Sunday July 16, 2000
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after August 15, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,

Afsaneh Salimpour

To: URS Greiner Woodward Clyde- Oakland
Attn.: Almudena Villanueva

CASE NARRATIVE

General and Sample Comments

We (ChromaLab, Inc.) received 22 Water samples, on Jul 16 2000 5:30PM.

Diesel

Due to limited sample volume MS/MSD was not performed. Precision and accuracy was verified by LCS/LCSD.

Analysis Comments and Flags by QC Batch

Diesel	Water	QC Batch#: 2000/07/17.03-10

Tank Lab#: 2000-07-0222-001

Compound	Flag(s)
ndp	Hydrocarbon reported does not match the pattern of our Diesel standard

W1 Lab#: 2000-07-0222-002

edr	Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

W2 Lab#: 2000-07-0222-003

ndp	Hydrocarbon reported does not match the pattern of our Diesel standard

W8 Lab#: 2000-07-0222-008

ndp	Hydrocarbon reported does not match the pattern of our Diesel standard

W9 Lab#: 2000-07-0222-009

ndp	Hydrocarbon reported does not match the pattern of our Diesel standard

W10 Lab#: 2000-07-0222-010

ndp	Hydrocarbon reported does not match the pattern of our Diesel standard

W11 Lab#: 2000-07-0222-011

ndp	Hydrocarbon reported does not match the pattern of our Diesel standard

W14 Lab#: 2000-07-0222-014

edr	Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

W15 Lab#: 2000-07-0222-015

nhc	Compounds reported are in this range but they do not exhibit a pattern characteristic of petroleum hydrocarbon.

W16 Lab#: 2000-07-0222-016

nhc	Compounds reported are in this range but they do not exhibit a pattern characteristic of petroleum hydrocarbon.

G/BTEX with MTBE	Water	QC Batch#: 2000/07/17.01-04

W5 Lab#: 2000-07-0222-005

To: URS Greiner Woodward Clyde- Oakland

Attn.: Almudena Villanueva

CASE NARRATIVE

Compound	Flag(s)	
mtbe	MTBE analyzed by GC/MS 8260	
W6		Lab#: 2000-07-0222-006
mtbe	MTBE analyzed by GC/MS 8260	
W7		Lab#: 2000-07-0222-007
mtbe	MTBE analyzed by GC/MS 8260	
W8		Lab#: 2000-07-0222-008
mtbe	MTBE analyzed by GC/MS 8260	
W14		Lab#: 2000-07-0222-014
mtbe	MTBE analyzed by GC/MS 8260	
W15		Lab#: 2000-07-0222-015
mtbe	MTBE analyzed by GC/MS 8260	
W16		Lab#: 2000-07-0222-016
mtbe	MTBE analyzed by GC/MS 8260	
W17		Lab#: 2000-07-0222-017
mtbe	MTBE analyzed by GC/MS 8260	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

Diesel

URS Greiner Woodward Clyde- Oakland

500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn: Almudena Villanueva

Phone: (510) 893-3600 Fax: (510) 874-3268

Project #: 5109967060.08.00000

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
Tank	Water	07/16/2000 16:35	1
W1	Water	07/16/2000 11:10	2
W2	Water	07/16/2000 12:02	3
W3	Water	07/16/2000 12:57	4
W5	Water	07/16/2000 15:48	5
W6	Water	07/16/2000 16:25	6
W7	Water	07/15/2000 21:05	7
W8	Water	07/16/2000 15:08	8
W9	Water	07/16/2000 14:18	9
W10	Water	07/15/2000 12:05	10
W11	Water	07/15/2000 15:40	11
W12	Water	07/15/2000 13:33	12
W13	Water	07/15/2000 16:50	13
W14	Water	07/15/2000 17:50	14
W15	Water	07/15/2000 18:35	15
W16	Water	07/15/2000 19:23	16
W17	Water	07/15/2000 11:08	17
W18	Water	07/15/2000 10:00	18
W18 Dup	Water	07/16/2000 10:00	21
W13 Dup	Water	07/16/2000 16:50	22

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**Tank**	Lab Sample ID:	**2000-07-0222-001**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 16:35	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	110	50	ug/L	1.00	07/17/2000 12:01	nhc
Surrogate(s)						
o-Terphenyl	84.3	60-130	%	1.00	07/17/2000 12:01	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W1**	Lab Sample ID:	**2000-07-0222-002**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 11:10	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	150	50	ug/L	1.00	07/17/2000 12:39	edr
Surrogate(s)						
o-Terphenyl	92.5	60-130	%	1.00	07/17/2000 12:39	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W2**	Lab Sample ID:	**2000-07-0222-003**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 12:02	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	67	50	ug/L	1.00	07/17/2000 13:18	ndp
Surrogate(s)						
o-Terphenyl	92.5	60-130	%	1.00	07/17/2000 13:18	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W3**	Lab Sample ID:	**2000-07-0222-004**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 12:57	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 13:57	
Surrogate(s)						
o-Terphenyl	90.0	60-130	%	1.00	07/17/2000 13:57	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W5**	Lab Sample ID:	**2000-07-0222-005**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 15:48	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 14:36	
Surrogate(s)						
o-Terphenyl	90.3	60-130	%	1.00	07/17/2000 14:36	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W6**	Lab Sample ID:	**2000-07-0222-006**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 16:25	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 15:14	
Surrogate(s)						
o-Terphenyl	92.8	60-130	%	1.00	07/17/2000 15:14	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W7**	Lab Sample ID:	**2000-07-0222-007**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 21:05	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 15:53	
Surrogate(s)						
o-Terphenyl	88.2	60-130	%	1.00	07/17/2000 15:53	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W8**	Lab Sample ID:	**2000-07-0222-008**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 15:08	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	67	50	ug/L	1.00	07/17/2000 16:32	nhc
Surrogate(s)						
o-Terphenyl	84.1	60-130	%	1.00	07/17/2000 16:32	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W9**	Lab Sample ID:	**2000-07-0222-009**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 14:18	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	82	50	ug/L	1.00	07/17/2000 17:11	ndp
Surrogate(s)						
o-Terphenyl	84.0	60-130	%	1.00	07/17/2000 17:11	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W10**	Lab Sample ID:	**2000-07-0222-010**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 12:05	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	55	50	ug/L	1.00	07/17/2000 17:50	ndp
Surrogate(s)						
o-Terphenyl	85.3	60-130	%	1.00	07/17/2000 17:50	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W11**	Lab Sample ID:	**2000-07-0222-011**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 15:40	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	100	50	ug/L	1.00	07/17/2000 18:29	ndp
Surrogate(s)						
o-Terphenyl	90.1	60-130	%	1.00	07/17/2000 18:29	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W12**	Lab Sample ID:	**2000-07-0222-012**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 13:33	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 19:08	
Surrogate(s)						
o-Terphenyl	81.8	60-130	%	1.00	07/17/2000 19:08	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W13**	Lab Sample ID:	**2000-07-0222-013**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 16:50	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 11:42	
Surrogate(s)						
o-Terphenyl	79.7	60-130	%	1.00	07/17/2000 11:42	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W14**	Lab Sample ID:	**2000-07-0222-014**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 17:50	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	130	50	ug/L	1.00	07/17/2000 12:28	edr
Surrogate(s)						
o-Terphenyl	78.6	60-130	%	1.00	07/17/2000 12:28	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W15**	Lab Sample ID:	**2000-07-0222-015**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 18:35	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	55	50	ug/L	1.00	07/17/2000 13:14	nhc
Surrogate(s)						
o-Terphenyl	82.7	60-130	%	1.00	07/17/2000 13:14	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W16**	Lab Sample ID:	**2000-07-0222-016**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 19:23	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	56	50	ug/L	1.00	07/17/2000 14:01	nhc
Surrogate(s)						
o-Terphenyl	81.0	60-130	%	1.00	07/17/2000 14:01	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W17**	Lab Sample ID:	**2000-07-0222-017**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 11:08	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 14:47	
Surrogate(s)						
o-Terphenyl	82.3	60-130	%	1.00	07/17/2000 14:47	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W18**	Lab Sample ID:	**2000-07-0222-018**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/15/2000 10:00	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 15:32	
Surrogate(s)						
o-Terphenyl	78.3	60-130	%	1.00	07/17/2000 15:32	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W18 Dup**	Lab Sample ID:	**2000-07-0222-021**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 10:00	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 16:19	
Surrogate(s)						
o-Terphenyl	87.2	60-130	%	1.00	07/17/2000 16:19	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**W13 Dup**	Lab Sample ID:	**2000-07-0222-022**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:37
Sampled:	07/16/2000 16:50	QC-Batch:	2000/07/17-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/17/2000 17:05	
Surrogate(s)						
o-Terphenyl	84.1	60-130	%	1.00	07/17/2000 17:05	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report
Diesel

Method Blank | **Water** | **QC Batch # 2000/07/17-03.10**

MB: 2000/07/17-03.10-001 | Date Extracted: 07/17/2000 10:37

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	07/17/2000 11:22	
Surrogate(s)					
o-Terphenyl	93.5	60-130	%	07/17/2000 11:22	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn: Almudena Villanueva

Test Method: 8015M

Prep Method: 3510/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/17-03.10**

LCS: 2000/07/17-03.10-002 Extracted: 07/17/2000 10:37 Analyzed 07/17/2000 19:47

LCSD: 2000/07/17-03.10-003 Extracted: 07/17/2000 10:37 Analyzed 07/17/2000 20:26

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1030	1050	1250	1250	82.4	84.0	1.9	60-130	25		
Surrogate(s)											
o-Terphenyl	19.1	19.5	20.0	20.0	95.5	97.5		60-130			

To: **URS Greiner Woodward Clyde- Oakland**
Attn:Almudena Villanueva

Test Method: 8015M
Prep Method: 3510/8015M

Legend & Notes

Diesel

Notes

Due to limited sample volume MS/MSD was not performed. Precision and accuracy was verified by LCS/LCSD.

Analyte Flags

edr

Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

nhc

Compounds reported are in this range but they do not exhibit a pattern characteristic of petroleum hydrocarbon.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

Metals

URS Greiner Woodward Clyde- Oakland

500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn: Almudena Villanueva

Phone: (510) 893-3600 Fax: (510) 874-3268

Project #: 5109967060.08.00000

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
W2	Water	07/16/2000 12:02	3
W7	Water	07/15/2000 21:05	7
W11	Water	07/15/2000 15:40	11
W16	Water	07/15/2000 19:23	16
W16 Dup	Water	07/16/2000 19:23	20

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Metals

Sample ID:	**W2**	Lab Sample ID:	**2000-07-0222-003**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:26
Sampled:	07/16/2000 12:02	QC-Batch:	2000/07/17-04.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	0.0050	mg/L	1.00	07/18/2000 11:06	
Arsenic	0.0055	0.0050	mg/L	1.00	07/18/2000 11:06	
Beryllium	ND	0.0050	mg/L	1.00	07/18/2000 11:06	
Cadmium	ND	0.0020	mg/L	1.00	07/18/2000 11:06	
Copper	ND	0.0050	mg/L	1.00	07/18/2000 11:06	
Lead	ND	0.0050	mg/L	1.00	07/18/2000 11:06	
Nickel	0.012	0.0050	mg/L	1.00	07/18/2000 11:06	
Selenium	ND	0.0050	mg/L	1.00	07/18/2000 11:06	
Silver	ND	0.0050	mg/L	1.00	07/18/2000 11:06	
Thallium	ND	0.0050	mg/L	1.00	07/18/2000 11:06	
Zinc	ND	0.010	mg/L	1.00	07/18/2000 11:06	
Mercury	ND	0.00020	mg/L	1.00	07/17/2000 16:27	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Metals

Sample ID:	**W7**	Lab Sample ID:	**2000-07-0222-007**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:26
Sampled:	07/15/2000 21:05	QC-Batch:	2000/07/17-04.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	0.0050	mg/L	1.00	07/18/2000 11:18	
Arsenic	0.0058	0.0050	mg/L	1.00	07/18/2000 11:18	
Beryllium	ND	0.0050	mg/L	1.00	07/18/2000 11:18	
Cadmium	ND	0.0020	mg/L	1.00	07/18/2000 11:18	
Copper	0.0060	0.0050	mg/L	1.00	07/18/2000 11:18	
Lead	ND	0.0050	mg/L	1.00	07/18/2000 11:18	
Nickel	0.013	0.0050	mg/L	1.00	07/18/2000 11:18	
Selenium	ND	0.0050	mg/L	1.00	07/18/2000 11:18	
Silver	ND	0.0050	mg/L	1.00	07/18/2000 11:18	
Thallium	ND	0.0050	mg/L	1.00	07/18/2000 11:18	
Zinc	0.011	0.010	mg/L	1.00	07/18/2000 11:18	
Mercury	ND	0.00020	mg/L	1.00	07/17/2000 16:28	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Metals

Sample ID:	**W11**	Lab Sample ID:	**2000-07-0222-011**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:26
Sampled:	07/15/2000 15:40	QC-Batch:	2000/07/17-04.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	0.0050	mg/L	1.00	07/18/2000 11:22	
Arsenic	ND	0.0050	mg/L	1.00	07/18/2000 11:22	
Beryllium	ND	0.0050	mg/L	1.00	07/18/2000 11:22	
Cadmium	ND	0.0020	mg/L	1.00	07/18/2000 11:22	
Copper	ND	0.0050	mg/L	1.00	07/18/2000 11:22	
Lead	ND	0.0050	mg/L	1.00	07/18/2000 11:22	
Nickel	ND	0.0050	mg/L	1.00	07/18/2000 11:22	
Selenium	ND	0.0050	mg/L	1.00	07/18/2000 11:22	
Silver	ND	0.0050	mg/L	1.00	07/18/2000 11:22	
Thallium	ND	0.0050	mg/L	1.00	07/18/2000 11:22	
Zinc	ND	0.010	mg/L	1.00	07/18/2000 11:22	
Mercury	ND	0.00020	mg/L	1.00	07/17/2000 16:29	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Metals

Sample ID:	**W16**	Lab Sample ID:	**2000-07-0222-016**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:26
Sampled:	07/15/2000 19:23	QC-Batch:	2000/07/17-04.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	0.0050	mg/L	1.00	07/18/2000 11:25	
Arsenic	0.0091	0.0050	mg/L	1.00	07/18/2000 11:25	
Beryllium	ND	0.0050	mg/L	1.00	07/18/2000 11:25	
Cadmium	ND	0.0020	mg/L	1.00	07/18/2000 11:25	
Copper	ND	0.0050	mg/L	1.00	07/18/2000 11:25	
Lead	ND	0.0050	mg/L	1.00	07/18/2000 11:25	
Nickel	0.016	0.0050	mg/L	1.00	07/18/2000 11:25	
Selenium	0.0050	0.0050	mg/L	1.00	07/18/2000 11:25	
Silver	ND	0.0050	mg/L	1.00	07/18/2000 11:25	
Thallium	ND	0.0050	mg/L	1.00	07/18/2000 11:25	
Zinc	ND	0.010	mg/L	1.00	07/18/2000 11:25	
Mercury	ND	0.00020	mg/L	1.00	07/17/2000 16:31	

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Metals

Sample ID:	**W16 Dup**	Lab Sample ID:	**2000-07-0222-020**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 10:26
Sampled:	07/16/2000 19:23	QC-Batch:	2000/07/17-04.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	0.0050	mg/L	1.00	07/18/2000 11:29	
Arsenic	0.0075	0.0050	mg/L	1.00	07/18/2000 11:29	
Beryllium	ND	0.0050	mg/L	1.00	07/18/2000 11:29	
Cadmium	ND	0.0020	mg/L	1.00	07/18/2000 11:29	
Copper	ND	0.0050	mg/L	1.00	07/18/2000 11:29	
Lead	ND	0.0050	mg/L	1.00	07/18/2000 11:29	
Nickel	0.017	0.0050	mg/L	1.00	07/18/2000 11:29	
Selenium	ND	0.0050	mg/L	1.00	07/18/2000 11:29	
Silver	ND	0.0050	mg/L	1.00	07/18/2000 11:29	
Thallium	ND	0.0050	mg/L	1.00	07/18/2000 11:29	
Zinc	ND	0.010	mg/L	1.00	07/18/2000 11:29	
Mercury	ND	0.00020	mg/L	1.00	07/17/2000 16:34	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Batch QC Report

Metals

Method Blank | **Water** | **QC Batch # 2000/07/17-01.16**

MB: 2000/07/17-01.16-079

Date Extracted: 07/17/2000 10:29

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Mercury	ND	0.0002	mg/L	07/17/2000 15:53	

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Batch QC Report
Metals

Method Blank | **Water** | **QC Batch # 2000/07/17-04.15**

MB: 2000/07/17-04.15-016

Date Extracted: 07/17/2000 10:26

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Antimony	ND	0.0050	mg/L	07/18/2000 10:55	
Arsenic	ND	0.0050	mg/L	07/18/2000 10:55	
Beryllium	ND	0.0050	mg/L	07/18/2000 10:55	
Cadmium	ND	0.0020	mg/L	07/18/2000 10:55	
Copper	ND	0.0050	mg/L	07/18/2000 10:55	
Lead	ND	0.0050	mg/L	07/18/2000 10:55	
Nickel	ND	0.0050	mg/L	07/18/2000 10:55	
Selenium	ND	0.0050	mg/L	07/18/2000 10:55	
Silver	ND	0.0050	mg/L	07/18/2000 10:55	
Thallium	ND	0.0050	mg/L	07/18/2000 10:55	
Zinc	ND	0.010	mg/L	07/18/2000 10:55	

To: **URS Greiner Woodward Clyde- Oakland**

Attn: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Batch QC Report

Metals

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/17-01.16**

LCS: 2000/07/17-01.16-090 Extracted: 07/17/2000 10:29 Analyzed 07/17/2000 16:10

LCSD: 2000/07/17-01.16-091 Extracted: 07/17/2000 10:29 Analyzed 07/17/2000 16:11

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Mercury	0.0196	0.0198	0.0200	0.0200	98.0	99.0	1.0	85-115	20		

To: **URS Greiner Woodward Clyde- Oakland**

Attn: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Batch QC Report

Metals

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/17-04.15**

LCS: 2000/07/17-04.15-017 Extracted: 07/17/2000 10:26 Analyzed 07/18/2000 10:59

LCSD: 2000/07/17-04.15-018 Extracted: 07/17/2000 10:26 Analyzed 07/18/2000 11:02

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Antimony	0.489	0.525	0.500	0.500	97.8	105.0	7.1	80-120	20		
Arsenic	0.474	0.511	0.500	0.500	94.8	102.2	7.5	80-120	20		
Beryllium	0.455	0.494	0.500	0.500	91.0	98.8	8.2	80-120	20		
Cadmium	0.448	0.481	0.500	0.500	89.6	96.2	7.1	80-120	20		
Copper	0.463	0.504	0.500	0.500	92.6	100.8	8.5	80-120	20		
Lead	0.451	0.483	0.500	0.500	90.2	96.6	6.9	80-120	20		
Nickel	0.468	0.510	0.500	0.500	93.6	102.0	8.6	80-120	20		
Selenium	0.447	0.483	0.500	0.500	89.4	96.6	7.7	80-120	20		
Silver	0.455	0.488	0.500	0.500	91.0	97.6	7.0	80-120	20		
Thallium	0.457	0.485	0.500	0.500	91.4	97.0	5.9	80-120	20		
Zinc	0.460	0.496	0.500	0.500	92.0	99.2	7.5	80-120	20		

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 6010B
7470A

Prep Method: 3010A
7470A

Batch QC Report

Metals

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/07/17-04.15**

Sample ID: **W2** Lab Sample ID: 2000-07-0222-003

MS: 2000/07/17-04.15-020 Extracted: 07/17/2000 10:26 Analyzed: 07/18/2000 11:10 Dilution: 1.0

MSD: 2000/07/17-04.15-021 Extracted: 07/17/2000 10:26 Analyzed: 07/18/2000 11:14 Dilution: 1.0

Compound	Conc. [mg/L]			Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Antimony	0.553	0.528	ND	0.500	0.500	110.6	105.6	4.6	75-125	20		
Arsenic	0.552	0.527	0.00551	0.500	0.500	109.3	104.3	4.7	75-125	20		
Beryllium	0.516	0.501	ND	0.500	0.500	103.2	100.2	2.9	75-125	20		
Cadmium	0.482	0.465	ND	0.500	0.500	96.4	93.0	3.6	75-125	20		
Copper	0.514	0.496	ND	0.500	0.500	102.8	99.2	3.6	75-125	20		
Lead	0.489	0.467	ND	0.500	0.500	97.8	93.4	4.6	75-125	20		
Nickel	0.516	0.499	0.0121	0.500	0.500	100.8	97.4	3.4	75-125	20		
Selenium	0.510	0.496	ND	0.500	0.500	102.0	99.2	2.8	75-125	20		
Silver	0.507	0.489	ND	0.500	0.500	101.4	97.8	3.6	75-125	20		
Thallium	0.492	0.469	ND	0.500	0.500	98.4	93.8	4.8	75-125	20		
Zinc	0.500	0.484	ND	0.500	0.500	100.0	96.8	3.3	75-125	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Test Method: 6010B
7470A

Attn.: Almudena Villanueva

Prep Method: 3010A
7470A

Batch QC Report

Metals

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/07/17-01.16**

Sample ID: **MW-OAK-8** Lab Sample ID: 2000-07-0125-001

MS: 2000/07/17-01.16-092 Extracted: 07/17/2000 10:29 Analyzed: 07/17/2000 16:14 Dilution: 1.0

MSD: 2000/07/17-01.16-093 Extracted: 07/17/2000 10:29 Analyzed: 07/17/2000 16:15 Dilution: 1.0

Compound	Conc. [mg/L]			Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Mercury	0.0331	0.0322	0.00140	0.030	0.030	105.7	102.7	2.9	85-115	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

Gas/BTEX and MTBE

URS Greiner Woodward Clyde- Oakland

500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn: Almudena Villanueva

Phone: (510) 893-3600 Fax: (510) 874-3268

Project #: 5109967060.08.00000 Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
Tank	Water	07/16/2000 16:35	1
W1	Water	07/16/2000 11:10	2
W2	Water	07/16/2000 12:02	3
W3	Water	07/16/2000 12:57	4
W5	Water	07/16/2000 15:48	5
W6	Water	07/16/2000 16:25	6
W7	Water	07/15/2000 21:05	7
W8	Water	07/16/2000 15:08	8
W9	Water	07/16/2000 14:18	9
W10	Water	07/15/2000 12:05	10
W11	Water	07/15/2000 15:40	11
W12	Water	07/15/2000 13:33	12
W13	Water	07/15/2000 16:50	13
W14	Water	07/15/2000 17:50	14
W15	Water	07/15/2000 18:35	15
W16	Water	07/15/2000 19:23	16
W17	Water	07/15/2000 11:08	17
W18	Water	07/15/2000 10:00	18
Trip Blank	Water	07/16/2000 09:30	19
W18 Dup	Water	07/16/2000 10:00	21
W13 Dup	Water	07/16/2000 16:50	22

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**Tank**	Lab Sample ID:	**2000-07-0222-001**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 17:15
Sampled:	07/16/2000 16:35	QC-Batch:	2000/07/17-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 17:15	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 17:15	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 17:15	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 17:15	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 17:15	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 17:15	
Surrogate(s)						
Trifluorotoluene	94.4	58-124	%	1.00	07/17/2000 17:15	
4-Bromofluorobenzene-FID	106.9	50-150	%	1.00	07/17/2000 17:15	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W1**	Lab Sample ID:	**2000-07-0222-002**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 17:46
Sampled:	07/16/2000 11:10	QC-Batch:	2000/07/17-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	540	50	ug/L	1.00	07/17/2000 17:46	
Benzene	8.5	0.50	ug/L	1.00	07/17/2000 17:46	
Toluene	10	0.50	ug/L	1.00	07/17/2000 17:46	
Ethyl benzene	9.5	0.50	ug/L	1.00	07/17/2000 17:46	
Xylene(s)	43	0.50	ug/L	1.00	07/17/2000 17:46	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 17:46	
Surrogate(s)						
Trifluorotoluene	102.2	58-124	%	1.00	07/17/2000 17:46	
4-Bromofluorobenzene-FID	111.1	50-150	%	1.00	07/17/2000 17:46	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W2**	Lab Sample ID:	**2000-07-0222-003**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 18:17
Sampled:	07/16/2000 12:02	QC-Batch:	2000/07/17-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 18:17	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 18:17	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 18:17	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 18:17	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 18:17	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 18:17	
Surrogate(s)						
Trifluorotoluene	108.0	58-124	%	1.00	07/17/2000 18:17	
4-Bromofluorobenzene-FID	115.6	50-150	%	1.00	07/17/2000 18:17	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W3**	Lab Sample ID:	**2000-07-0222-004**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 18:49
Sampled:	07/16/2000 12:57	QC-Batch:	2000/07/17-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 18:49	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 18:49	
Toluene	2.5	0.50	ug/L	1.00	07/17/2000 18:49	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 18:49	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 18:49	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 18:49	
Surrogate(s)						
Trifluorotoluene	104.4	58-124	%	1.00	07/17/2000 18:49	
4-Bromofluorobenzene-FID	113.3	50-150	%	1.00	07/17/2000 18:49	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W5**	Lab Sample ID:	**2000-07-0222-005**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 17:43
Sampled:	07/16/2000 15:48	QC-Batch:	2000/07/17-01.04
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 17:43	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 17:43	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 17:43	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 17:43	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 17:43	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 17:43	mtbe
Surrogate(s)						
Trifluorotoluene	99.5	58-124	%	1.00	07/17/2000 17:43	
4-Bromofluorobenzene-FID	85.9	50-150	%	1.00	07/17/2000 17:43	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W6**	Lab Sample ID:	**2000-07-0222-006**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 18:10
Sampled:	07/16/2000 16:25	QC-Batch:	2000/07/17-01.04
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 18:10	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 18:10	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 18:10	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 18:10	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 18:10	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 18:10	mtbe
Surrogate(s)						
Trifluorotoluene	102.6	58-124	%	1.00	07/17/2000 18:10	
4-Bromofluorobenzene-FID	86.9	50-150	%	1.00	07/17/2000 18:10	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W7**	Lab Sample ID:	**2000-07-0222-007**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 18:38
Sampled:	07/15/2000 21:05	QC-Batch:	2000/07/17-01.04
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 18:38	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 18:38	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 18:38	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 18:38	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 18:38	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 18:38	mtbe
Surrogate(s)						
Trifluorotoluene	103.7	58-124	%	1.00	07/17/2000 18:38	
4-Bromofluorobenzene-FID	85.6	50-150	%	1.00	07/17/2000 18:38	

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W8**	Lab Sample ID:	**2000-07-0222-008**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 19:05
Sampled:	07/16/2000 15:08	QC-Batch:	2000/07/17-01.04
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 19:05	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 19:05	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 19:05	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 19:05	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 19:05	
MTBE	ND	5.0	ug/L	1.00	07/18/2000 19:05	mtbe
Surrogate(s)						
Trifluorotoluene	109.2	58-124	%	1.00	07/17/2000 19:05	
4-Bromofluorobenzene-FID	87.9	50-150	%	1.00	07/17/2000 19:05	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W9**	Lab Sample ID:	**2000-07-0222-009**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 20:22
Sampled:	07/16/2000 14:18	QC-Batch:	2000/07/17-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 20:22	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 20:22	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 20:22	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 20:22	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 20:22	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 20:22	
Surrogate(s)						
Trifluorotoluene	101.9	58-124	%	1.00	07/17/2000 20:22	
4-Bromofluorobenzene-FID	114.0	50-150	%	1.00	07/17/2000 20:22	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W10**	Lab Sample ID:	**2000-07-0222-010**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 20:53
Sampled:	07/15/2000 12:05	QC-Batch:	2000/07/17-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 20:53	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 20:53	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 20:53	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 20:53	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 20:53	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 20:53	
Surrogate(s)						
Trifluorotoluene	105.2	58-124	%	1.00	07/17/2000 20:53	
4-Bromofluorobenzene-FID	110.0	50-150	%	1.00	07/17/2000 20:53	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W11**	Lab Sample ID:	**2000-07-0222-011**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 21:24
Sampled:	07/15/2000 15:40	QC-Batch:	2000/07/17-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 21:24	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 21:24	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 21:24	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 21:24	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 21:24	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 21:24	
Surrogate(s)						
Trifluorotoluene	101.0	58-124	%	1.00	07/17/2000 21:24	
4-Bromofluorobenzene-FID	111.7	50-150	%	1.00	07/17/2000 21:24	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W12**	Lab Sample ID:	**2000-07-0222-012**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 21:55
Sampled:	07/15/2000 13:33	QC-Batch:	2000/07/17-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 21:55	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 21:55	
Toluene	4.1	0.50	ug/L	1.00	07/17/2000 21:55	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 21:55	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 21:55	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 21:55	
Surrogate(s)						
Trifluorotoluene	98.8	58-124	%	1.00	07/17/2000 21:55	
4-Bromofluorobenzene-FID	110.9	50-150	%	1.00	07/17/2000 21:55	

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W13**	Lab Sample ID:	**2000-07-0222-013**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 22:26
Sampled:	07/15/2000 16:50	QC-Batch:	2000/07/17-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 22:26	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 22:26	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 22:26	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 22:26	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 22:26	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 22:26	
Surrogate(s)						
Trifluorotoluene	91.2	58-124	%	1.00	07/17/2000 22:26	
4-Bromofluorobenzene-FID	106.4	50-150	%	1.00	07/17/2000 22:26	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W14**	Lab Sample ID:	**2000-07-0222-014**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 20:28
Sampled:	07/15/2000 17:50	QC-Batch:	2000/07/17-01.04
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	320	50	ug/L	1.00	07/17/2000 20:28	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 20:28	
Toluene	0.96	0.50	ug/L	1.00	07/17/2000 20:28	
Ethyl benzene	6.2	0.50	ug/L	1.00	07/17/2000 20:28	
Xylene(s)	4.2	0.50	ug/L	1.00	07/17/2000 20:28	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 20:28	mtbe
Surrogate(s)						
Trifluorotoluene	98.5	58-124	%	1.00	07/17/2000 20:28	
4-Bromofluorobenzene-FID	83.6	50-150	%	1.00	07/17/2000 20:28	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W15**	Lab Sample ID:	**2000-07-0222-015**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 20:56
Sampled:	07/15/2000 18:35	QC-Batch:	2000/07/17-01.04
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 20:56	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 20:56	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 20:56	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 20:56	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 20:56	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 20:56	mtbe
Surrogate(s)						
Trifluorotoluene	105.6	58-124	%	1.00	07/17/2000 20:56	
4-Bromofluorobenzene-FID	83.4	50-150	%	1.00	07/17/2000 20:56	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W16**	Lab Sample ID:	**2000-07-0222-016**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 21:23
Sampled:	07/15/2000 19:23	QC-Batch:	2000/07/17-01.04
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 21:23	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 21:23	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 21:23	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 21:23	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 21:23	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 21:23	mtbe
Surrogate(s)						
Trifluorotoluene	100.2	58-124	%	1.00	07/17/2000 21:23	
4-Bromofluorobenzene-FID	82.3	50-150	%	1.00	07/17/2000 21:23	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W17**	Lab Sample ID:	**2000-07-0222-017**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 21:51
Sampled:	07/15/2000 11:08	QC-Batch:	2000/07/17-01.04
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 21:51	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 21:51	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 21:51	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 21:51	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 21:51	
MTBE	ND	5.0	ug/L	1.00	07/17/2000 21:51	mtbe
Surrogate(s)						
Trifluorotoluene	115.6	58-124	%	1.00	07/17/2000 21:51	
4-Bromofluorobenzene-FID	84.3	50-150	%	1.00	07/17/2000 21:51	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W18**	Lab Sample ID:	**2000-07-0222-018**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 22:18
Sampled:	07/15/2000 10:00	QC-Batch:	2000/07/17-01.04
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2000 22:18	
Benzene	ND	0.50	ug/L	1.00	07/17/2000 22:18	
Toluene	ND	0.50	ug/L	1.00	07/17/2000 22:18	
Ethyl benzene	ND	0.50	ug/L	1.00	07/17/2000 22:18	
Xylene(s)	ND	0.50	ug/L	1.00	07/17/2000 22:18	
MTBE	ND	5.0	ug/L	1.00	07/18/2000 09:46	
Surrogate(s)						
Trifluorotoluene	95.7	58-124	%	1.00	07/17/2000 22:18	
4-Bromofluorobenzene-FID	81.5	50-150	%	1.00	07/17/2000 22:18	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**Trip Blank**	Lab Sample ID:	**2000-07-0222-019**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/18/2000 10:18
Sampled:	07/16/2000 09:30	QC-Batch:	2000/07/18-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/18/2000 10:18	
Benzene	ND	0.50	ug/L	1.00	07/18/2000 10:18	
Toluene	ND	0.50	ug/L	1.00	07/18/2000 10:18	
Ethyl benzene	ND	0.50	ug/L	1.00	07/18/2000 10:18	
Xylene(s)	ND	0.50	ug/L	1.00	07/18/2000 10:18	
MTBE	ND	5.0	ug/L	1.00	07/18/2000 10:18	
Surrogate(s)						
Trifluorotoluene	101.2	58-124	%	1.00	07/18/2000 10:18	
4-Bromofluorobenzene-FID	112.2	50-150	%	1.00	07/18/2000 10:18	

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W18 Dup**	Lab Sample ID:	**2000-07-0222-021**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/18/2000 10:49
Sampled:	07/16/2000 10:00	QC-Batch:	2000/07/18-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/18/2000 10:49	
Benzene	ND	0.50	ug/L	1.00	07/18/2000 10:49	
Toluene	ND	0.50	ug/L	1.00	07/18/2000 10:49	
Ethyl benzene	ND	0.50	ug/L	1.00	07/18/2000 10:49	
Xylene(s)	ND	0.50	ug/L	1.00	07/18/2000 10:49	
MTBE	ND	5.0	ug/L	1.00	07/18/2000 10:49	
Surrogate(s)						
Trifluorotoluene	92.1	58-124	%	1.00	07/18/2000 10:49	
4-Bromofluorobenzene-FID	112.4	50-150	%	1.00	07/18/2000 10:49	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**W13 Dup**	Lab Sample ID:	**2000-07-0222-022**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/18/2000 11:20
Sampled:	07/16/2000 16:50	QC-Batch:	2000/07/18-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/18/2000 11:20	
Benzene	ND	0.50	ug/L	1.00	07/18/2000 11:20	
Toluene	ND	0.50	ug/L	1.00	07/18/2000 11:20	
Ethyl benzene	ND	0.50	ug/L	1.00	07/18/2000 11:20	
Xylene(s)	ND	0.50	ug/L	1.00	07/18/2000 11:20	
MTBE	ND	5.0	ug/L	1.00	07/18/2000 11:20	
Surrogate(s)						
Trifluorotoluene	96.3	58-124	%	1.00	07/18/2000 11:20	
4-Bromofluorobenzene-FID	115.2	50-150	%	1.00	07/18/2000 11:20	

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2000/07/17-01.02**

MB: 2000/07/17-01.02-001

Date Extracted: 07/17/2000 15:10

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/17/2000 15:10	
Benzene	ND	0.5	ug/L	07/17/2000 15:10	
Toluene	ND	0.5	ug/L	07/17/2000 15:10	
Ethyl benzene	ND	0.5	ug/L	07/17/2000 15:10	
Xylene(s)	ND	0.5	ug/L	07/17/2000 15:10	
MTBE	ND	5.0	ug/L	07/17/2000 15:10	
Surrogate(s)					
Trifluorotoluene	95.0	58-124	%	07/17/2000 15:10	
4-Bromofluorobenzene-FID	105.2	50-150	%	07/17/2000 15:10	

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2000/07/17-01.04**

MB: 2000/07/17-01.04-001

Date Extracted: 07/17/2000 16:12

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/17/2000 16:12	
Benzene	ND	0.5	ug/L	07/17/2000 16:12	
Toluene	ND	0.5	ug/L	07/17/2000 16:12	
Ethyl benzene	ND	0.5	ug/L	07/17/2000 16:12	
Xylene(s)	ND	0.5	ug/L	07/17/2000 16:12	
Surrogate(s)					
Trifluorotoluene	89.4	58-124	%	07/17/2000 16:12	
4-Bromofluorobenzene-FID	87.8	50-150	%	07/17/2000 16:12	

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2000/07/18-01.02**

MB: 2000/07/18-01.02-001

Date Extracted: 07/18/2000 06:26

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/18/2000 06:26	
Benzene	ND	0.5	ug/L	07/18/2000 06:26	
Toluene	ND	0.5	ug/L	07/18/2000 06:26	
Ethyl benzene	ND	0.5	ug/L	07/18/2000 06:26	
Xylene(s)	ND	0.5	ug/L	07/18/2000 06:26	
MTBE	ND	5.0	ug/L	07/18/2000 06:26	
Surrogate(s)					
Trifluorotoluene	105.2	58-124	%	07/18/2000 06:26	
4-Bromofluorobenzene-FID	111.0	50-150	%	07/18/2000 06:26	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Test Method: 8020
8015M

Attn: Almudena Villanueva

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/17-01.02**

LCS: 2000/07/17-01.02-002 Extracted: 07/17/2000 14:37 Analyzed 07/17/2000 14:37

LCSD: 2000/07/17-01.02-003 Extracted: 07/17/2000 15:41 Analyzed 07/17/2000 15:41

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	477	485	500	500	95.4	97.0	1.7	75-125	20		
Benzene	90.7	92.5	100.0	100.0	90.7	92.5	2.0	77-123	20		
Toluene	89.0	90.6	100.0	100.0	89.0	90.6	1.8	78-122	20		
Ethyl benzene	84.6	85.0	100.0	100.0	84.6	85.0	0.5	70-130	20		
Xylene(s)	262	264	300	300	87.3	88.0	0.8	75-125	20		
Surrogate(s)											
Trifluorotoluene	427	425	500	500	85.4	85.0		58-124			
4-Bromofluorobenzene-FI	552	571	500	500	110.4	114.2		50-150			

To: **URS Greiner Woodward Clyde- Oakland**

Attn: Almudena Villanueva

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/17-01.04**

LCS: 2000/07/17-01.04-002 Extracted: 07/17/2000 15:10 Analyzed 07/17/2000 15:10

LCSD: 2000/07/17-01.04-003 Extracted: 07/17/2000 15:37 Analyzed 07/17/2000 15:37

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	574	551	500	500	114.8	110.2	4.1	75-125	20		
Benzene	102	86.9	100.0	100.0	102.0	86.9	16.0	77-123	20		
Toluene	99.2	85.2	100.0	100.0	99.2	85.2	15.2	78-122	20		
Ethyl benzene	97.7	82.7	100.0	100.0	97.7	82.7	16.6	70-130	20		
Xylene(s)	295	252	300	300	98.3	84.0	15.7	75-125	20		
Surrogate(s)											
Trifluorotoluene	465	374	500	500	93.0	74.8		58-124			
4-Bromofluorobenzene-FI	449	448	500	500	89.8	89.6		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Test Method: 8020
8015M

Attn: Almudena Villanueva

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/18-01.02**

LCS: 2000/07/18-01.02-002 Extracted: 07/18/2000 06:57 Analyzed 07/18/2000 06:57

LCSD: 2000/07/18-01.02-003 Extracted: 07/18/2000 07:28 Analyzed 07/18/2000 07:28

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	446	465	500	500	89.2	93.0	4.2	75-125	20		
Benzene	95.8	93.2	100.0	100.0	95.8	93.2	2.8	77-123	20		
Toluene	93.9	91.7	100.0	100.0	93.9	91.7	2.4	78-122	20		
Ethyl benzene	89.6	88.2	100.0	100.0	89.6	88.2	1.6	70-130	20		
Xylene(s)	277	273	300	300	92.3	91.0	1.4	75-125	20		
Surrogate(s)											
Trifluorotoluene	477	458	500	500	95.4	91.6		58-124			
4-Bromofluorobenzene-FI	551	562	500	500	110.2	112.4		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Test Method: 8020
8015M

Attn.: Almudena Villanueva

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/07/17-01.04**

Sample ID: **W18** Lab Sample ID: 2000-07-0222-018

MS: 2000/07/17-01.04-004 Extracted: 07/17/2000 22:46 Analyzed: 07/17/2000 22:46 Dilution: 1.0

MSD: 2000/07/17-01.04-005 Extracted: 07/17/2000 23:13 Analyzed: 07/17/2000 23:13 Dilution: 1.0

Compound	Conc. [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	584	578	ND	500	500	116.8	115.6	1.0	65-135	20		
Benzene	75.8	83.8	ND	100.0	100.0	75.8	83.8	10.0	65-135	20		
Toluene	74.6	83.1	ND	100.0	100.0	74.6	83.1	10.8	65-135	20		
Ethyl benzene	72.5	81.8	ND	100.0	100.0	72.5	81.8	12.1	65-135	20		
Xylene(s)	217	245	ND	300	300	72.3	81.7	12.2	65-135	20		
Surrogate(s)												
Trifluorotoluene	345	382		500	500	69.0	76.4		58-124			
4-Bromofluorobenzene-F	451	436		500	500	90.2	87.2		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Test Method: 8020
8015M

Attn.: Almudena Villanueva

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/07/17-01.02**

Sample ID: **W13** Lab Sample ID: 2000-07-0222-013

MS: 2000/07/17-01.02-004 Extracted: 07/17/2000 22:58 Analyzed: 07/17/2000 22:58 Dilution: 1.0

MSD: 2000/07/17-01.02-005 Extracted: 07/17/2000 23:29 Analyzed: 07/17/2000 23:29 Dilution: 1.0

Compound	Conc. [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	405	465	ND	500	500	81.0	93.0	13.8	65-135	20		
Benzene	90.2	90.4	ND	100.0	100.0	90.2	90.4	0.2	65-135	20		
Toluene	87.5	87.7	ND	100.0	100.0	87.5	87.7	0.2	65-135	20		
Ethyl benzene	83.2	84.0	ND	100.0	100.0	83.2	84.0	1.0	65-135	20		
Xylene(s)	252	254	ND	300	300	84.0	84.7	0.8	65-135	20		
Surrogate(s)												
Trifluorotoluene	421	423		500	500	84.2	84.6		58-124			
4-Bromofluorobenzene-F	537	572		500	500	107.4	114.4		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Test Method: 8020
8015M

Attn.: Almudena Villanueva

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/07/18-01.02**

Sample ID: **EB-1** Lab Sample ID: 2000-07-0225-001

MS: 2000/07/18-01.02-004 Extracted: 07/18/2000 16:26 Analyzed: 07/18/2000 16:26 Dilution: 1.0

MSD: 2000/07/18-01.02-005 Extracted: 07/18/2000 16:57 Analyzed: 07/18/2000 16:57 Dilution: 1.0

Compound	Conc. [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	397	448	ND	500	500	79.4	89.6	12.1	65-135	20		
Benzene	89.9	88.5	ND	100.0	100.0	89.9	88.5	1.6	65-135	20		
Toluene	87.8	85.6	ND	100.0	100.0	87.8	85.6	2.5	65-135	20		
Ethyl benzene	83.3	81.1	ND	100.0	100.0	83.3	81.1	2.7	65-135	20		
Xylene(s)	257	247	ND	300	300	85.7	82.3	4.0	65-135	20		
Surrogate(s)												
Trifluorotoluene	414	396		500	500	82.8	79.2		58-124			
4-Bromofluorobenzene-F	546	558		500	500	109.2	111.6		50-150			

To: **URS Greiner Woodward Clyde- Oakland**

Attn:Almudena Villanueva

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

mtbe

MTBE analyzed by GC/MS 8260

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

Halogenated Volatile Organic Compounds

URS Greiner Woodward Clyde- Oakland

500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn: Almudena Villanueva

Phone: (510) 893-3600 Fax: (510) 874-3268

Project #: 5109967060.08.00000 Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
Tank	Water	07/16/2000 16:35	1
W2	Water	07/16/2000 12:02	3
W7	Water	07/15/2000 21:05	7
W11	Water	07/15/2000 15:40	11
W16	Water	07/15/2000 19:23	16
W16 Dup	Water	07/16/2000 19:23	20

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

Sample ID:	**Tank**	Lab Sample ID:	**2000-07-0222-001**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 17:39
Sampled:	07/16/2000 16:35	QC-Batch:	2000/07/17-01.25
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/17/2000 17:39	
Vinyl chloride	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Chloroethane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Methylene chloride	ND	5.0	ug/L	1.00	07/17/2000 17:39	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Chloroform	1.4	0.50	ug/L	1.00	07/17/2000 17:39	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/17/2000 17:39	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Trichloroethene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/17/2000 17:39	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Chlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Bromoform	ND	2.0	ug/L	1.00	07/17/2000 17:39	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/17/2000 17:39	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 17:39	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/17/2000 17:39	
Chloromethane	ND	1.0	ug/L	1.00	07/17/2000 17:39	
Bromomethane	ND	1.0	ug/L	1.00	07/17/2000 17:39	
Surrogate(s)						
1-Chloro-2-fluorobenzene	80.2	50-150	%	1.00	07/17/2000 17:39	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

Sample ID:	**W2**	Lab Sample ID:	**2000-07-0222-003**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 18:34
Sampled:	07/16/2000 12:02	QC-Batch:	2000/07/17-01.25
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/17/2000 18:34	
Vinyl chloride	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Chloroethane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Methylene chloride	ND	5.0	ug/L	1.00	07/17/2000 18:34	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Chloroform	ND	0.50	ug/L	1.00	07/17/2000 18:34	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/17/2000 18:34	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Trichloroethene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/17/2000 18:34	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Chlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Bromoform	ND	2.0	ug/L	1.00	07/17/2000 18:34	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/17/2000 18:34	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 18:34	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/17/2000 18:34	
Chloromethane	ND	1.0	ug/L	1.00	07/17/2000 18:34	
Bromomethane	ND	1.0	ug/L	1.00	07/17/2000 18:34	
Surrogate(s)						
1-Chloro-2-fluorobenzene	76.0	50-150	%	1.00	07/17/2000 18:34	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

Sample ID:	**W7**	Lab Sample ID:	**2000-07-0222-007**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 19:29
Sampled:	07/15/2000 21:05	QC-Batch:	2000/07/17-01.25
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/17/2000 19:29	
Vinyl chloride	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Chloroethane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Methylene chloride	ND	5.0	ug/L	1.00	07/17/2000 19:29	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Chloroform	0.54	0.50	ug/L	1.00	07/17/2000 19:29	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/17/2000 19:29	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Trichloroethene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/17/2000 19:29	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Chlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Bromoform	ND	2.0	ug/L	1.00	07/17/2000 19:29	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/17/2000 19:29	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 19:29	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/17/2000 19:29	
Chloromethane	ND	1.0	ug/L	1.00	07/17/2000 19:29	
Bromomethane	ND	1.0	ug/L	1.00	07/17/2000 19:29	
Surrogate(s)						
1-Chloro-2-fluorobenzene	75.4	50-150	%	1.00	07/17/2000 19:29	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

Sample ID:	**W11**	Lab Sample ID:	**2000-07-0222-011**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/17/2000 23:08
Sampled:	07/15/2000 15:40	QC-Batch:	2000/07/17-01.25
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/17/2000 23:08	
Vinyl chloride	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Chloroethane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Methylene chloride	ND	5.0	ug/L	1.00	07/17/2000 23:08	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Chloroform	ND	0.50	ug/L	1.00	07/17/2000 23:08	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/17/2000 23:08	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Trichloroethene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/17/2000 23:08	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Chlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Bromoform	ND	2.0	ug/L	1.00	07/17/2000 23:08	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/17/2000 23:08	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/17/2000 23:08	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/17/2000 23:08	
Chloromethane	ND	1.0	ug/L	1.00	07/17/2000 23:08	
Bromomethane	ND	1.0	ug/L	1.00	07/17/2000 23:08	
Surrogate(s)						
1-Chloro-2-fluorobenzene	79.5	50-150	%	1.00	07/17/2000 23:08	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

Sample ID:	**W16**	Lab Sample ID:	**2000-07-0222-016**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/18/2000 00:02
Sampled:	07/15/2000 19:23	QC-Batch:	2000/07/17-01.25
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/18/2000 00:02	
Vinyl chloride	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Chloroethane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Methylene chloride	ND	5.0	ug/L	1.00	07/18/2000 00:02	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Chloroform	ND	0.50	ug/L	1.00	07/18/2000 00:02	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/18/2000 00:02	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Trichloroethene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/18/2000 00:02	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Chlorobenzene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Bromoform	ND	2.0	ug/L	1.00	07/18/2000 00:02	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/18/2000 00:02	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/18/2000 00:02	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/18/2000 00:02	
Chloromethane	ND	1.0	ug/L	1.00	07/18/2000 00:02	
Bromomethane	ND	1.0	ug/L	1.00	07/18/2000 00:02	
Surrogate(s)						
1-Chloro-2-fluorobenzene	79.9	50-150	%	1.00	07/18/2000 00:02	

To: **URS Greiner Woodward Clyde- Oakland**
Attn.: Almudena Villanueva

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

Sample ID:	**W16 Dup**	Lab Sample ID:	**2000-07-0222-020**
Project:	5109967060.08.00000	Received:	07/16/2000 17:30
		Extracted:	07/18/2000 03:40
Sampled:	07/16/2000 19:23	QC-Batch:	2000/07/17-01.25
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/18/2000 03:40	
Vinyl chloride	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Chloroethane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Methylene chloride	ND	5.0	ug/L	1.00	07/18/2000 03:40	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Chloroform	ND	0.50	ug/L	1.00	07/18/2000 03:40	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/18/2000 03:40	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Trichloroethene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/18/2000 03:40	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Chlorobenzene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Bromoform	ND	2.0	ug/L	1.00	07/18/2000 03:40	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/18/2000 03:40	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/18/2000 03:40	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/18/2000 03:40	
Chloromethane	ND	1.0	ug/L	1.00	07/18/2000 03:40	
Bromomethane	ND	1.0	ug/L	1.00	07/18/2000 03:40	
Surrogate(s)						
1-Chloro-2-fluorobenzene	79.5	50-150	%	1.00	07/18/2000 03:40	

To: **URS Greiner Woodward Clyde- Oakland** Test Method: 8010

Attn.: Almudena Villanueva Prep Method: 5030

Batch QC Report

Halogenated Volatile Organic Compounds

Method Blank **Water** **QC Batch # 2000/07/17-01.25**

MB: 2000/07/17-01.25-001 Date Extracted: 07/17/2000 13:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	07/17/2000 13:00	
Vinyl chloride	ND	0.5	ug/L	07/17/2000 13:00	
Chloroethane	ND	0.5	ug/L	07/17/2000 13:00	
Trichlorofluoromethane	ND	0.5	ug/L	07/17/2000 13:00	
1,1-Dichloroethene	ND	0.5	ug/L	07/17/2000 13:00	
Methylene chloride	ND	5.0	ug/L	07/17/2000 13:00	
trans-1,2-Dichloroethene	ND	0.5	ug/L	07/17/2000 13:00	
cis-1,2-Dichloroethene	ND	0.5	ug/L	07/17/2000 13:00	
1,1-Dichloroethane	ND	0.5	ug/L	07/17/2000 13:00	
Chloroform	ND	0.5	ug/L	07/17/2000 13:00	
1,1,1-Trichloroethane	ND	0.5	ug/L	07/17/2000 13:00	
Carbon tetrachloride	ND	0.5	ug/L	07/17/2000 13:00	
1,2-Dichloroethane	ND	0.5	ug/L	07/17/2000 13:00	
Trichloroethene	ND	0.5	ug/L	07/17/2000 13:00	
1,2-Dichloropropane	ND	0.5	ug/L	07/17/2000 13:00	
Bromodichloromethane	ND	0.5	ug/L	07/17/2000 13:00	
2-Chloroethylvinyl ether	ND	0.5	ug/L	07/17/2000 13:00	
trans-1,3-Dichloropropene	ND	0.5	ug/L	07/17/2000 13:00	
cis-1,3-Dichloropropene	ND	0.5	ug/L	07/17/2000 13:00	
1,1,2-Trichloroethane	ND	0.5	ug/L	07/17/2000 13:00	
Tetrachloroethene	ND	0.5	ug/L	07/17/2000 13:00	
Dibromochloromethane	ND	0.5	ug/L	07/17/2000 13:00	
Chlorobenzene	ND	0.5	ug/L	07/17/2000 13:00	
Bromoform	ND	2.0	ug/L	07/17/2000 13:00	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	07/17/2000 13:00	
1,3-Dichlorobenzene	ND	0.5	ug/L	07/17/2000 13:00	
1,4-Dichlorobenzene	ND	0.5	ug/L	07/17/2000 13:00	
1,2-Dichlorobenzene	ND	0.5	ug/L	07/17/2000 13:00	
Trichlorotrifluoroethane	ND	0.5	ug/L	07/17/2000 13:00	
Chloromethane	ND	1.0	ug/L	07/17/2000 13:00	
Bromomethane	ND	1.0	ug/L	07/17/2000 13:00	
Surrogate(s)					
1-Chloro-2-fluorobenzene	79.5	50-150	%	07/17/2000 13:00	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn: Almudena Villanueva

Test Method: 8010

Prep Method: 5030

Batch QC Report

Halogenated Volatile Organic Compounds

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/17-01.25**

LCS: 2000/07/17-01.25-002 Extracted: 07/17/2000 13:56 Analyzed 07/17/2000 13:56

LCSD: 2000/07/17-01.25-003 Extracted: 07/17/2000 14:52 Analyzed 07/17/2000 14:52

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
1,1-Dichloroethene	18.4	17.9	20.0	20.0	92.0	89.5	2.8	50-140	20		
Trichloroethene	19.8	19.3	20.0	20.0	99.0	96.5	2.6	50-150	20		
Chlorobenzene	19.9	19.9	20.0	20.0	99.5	99.5	0.0	50-150	20		
Surrogate(s)											
1-Chloro-2-fluorobenzene	19.1	18.9	20	20	95.5	94.5		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-07-0222

To: **URS Greiner Woodward Clyde- Oakland**

Attn.: Almudena Villanueva

Test Method: 8010

Prep Method: 5030

Batch QC Report

Halogenated Volatile Organic Compounds

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/07/17-01.25**

Sample ID: **W7** Lab Sample ID: 2000-07-0222-007

MS: 2000/07/17-01.25-004 Extracted: 07/17/2000 20:24 Analyzed: 07/17/2000 20:24 Dilution: 1.0

MSD: 2000/07/17-01.25-005 Extracted: 07/17/2000 21:19 Analyzed: 07/17/2000 21:19 Dilution: 1.0

Compound	Conc. [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
1,1-Dichloroethene	17.2	16.4	ND	20.0	20.0	86.0	82.0	4.8	50-140	20		
Trichloroethene	18.8	18.5	ND	20.0	20.0	94.0	92.5	1.6	50-150	20		
Chlorobenzene	19.0	18.6	ND	20.0	20.0	95.0	93.0	2.1	50-150	20		
Surrogate(s)												
1-Chloro-2-fluorobenzen	18.1	17.3		20	20	90.5	86.5		50-150			

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # L199-04 **Date:** 7/18/00

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Project: 2000-07-0222

PO#

Date Rec'd: 7/17/00
Date Started: 7/17/00
Date Completed: 7/18/00

Date Sampled: 7/16/00
Time:
Sampler:

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
W2	L36456	0.01	335.2	Cyanide	ND	mg/L
W7	L36457	0.01	335.2	Cyanide	ND	mg/L
W11	L36458	0.01	335.2	Cyanide	ND	mg/L
W16	L36459	0.01	335.2	Cyanide	ND	mg/L
W16 Dup	L36460	0.01	335.2	Cyanide	ND	mg/L

Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report# L199-04

QC REPORT

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Dates Analyzed 7/17/00-7/18/00

Analyte	Batch #	Method	MS % Recovery	MSD % Recovery	RPD	Blank
Cyanide	I05878	335.2	120.0	120.0	0.0	ND

Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Laboratory Director

Chain of Custody 2000-07-0222-1

Date Shipped: 07/17/2000

L199-04

From:

ChromaLab, Inc. (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

Project Manager: Afsaneh Salimpour
Phone: (925) 484-1919 Ext: 107
Fax: (925) 484-1096
Email: asalimpour@chromalab.com

To:

GeoAnalytical Labs
1405 Kansas Avenue
Modesto, CA 95351

Phone: (209) 572-0900
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Contact: Ramiro Salgado
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CL Submission #: **2000-07-0222**
CL PO #:

Project #: 5109967060.08.00000
Project Name:

Client Sample ID / Analysis	CL#	Sampled	Matrix / Method	Due
W2	003	07/16/2000 12:02	Water	L360456
Subcontract - Cyanide-Total			335.2/9010B	07/18/2000 17:00
W7	007	07/15/2000 21:05	Water	L360457
Subcontract - Cyanide-Total			335.2/9010B	07/18/2000 17:00
W11	011	07/15/2000 15:40	Water	L360458
Subcontract - Cyanide-Total			335.2/9010B	07/18/2000 17:00
W16	016	07/15/2000 19:23	Water	L360459
Subcontract - Cyanide-Total			335.2/9010B	07/18/2000 17:00
W16 Dup	020	07/16/2000 19:23	Water	L360460
Subcontract - Cyanide-Total			335.2/9010B	07/18/2000 17:00

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RUSH

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature] Time: 10:35	Signature: Time:	Signature: Time:
Printed Name: CRESTEK Date: 07/17/00	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: [signature] Time: 10:35	Signature: Time:	Signature: Time:
Printed Name: Richard Chun Date: 7/17/00	Printed Name: Date:	Printed Name: Date:
Company: GeoAnalytical Laboratories	Company:	Company:

2000-07-0222 Ref# 53341

URS Greiner Woodward Clyde
500 12th Street, Suite 200, Oakland, CA 94607-4014
510.893.3600

Almudena Villanueva

Chain of Custody Record

PROJECT NO. 51099670600.08 00000

SAMPLERS: (Signature)

DATE	TIME	SAMPLE NUMBER	Sample Matrix (S)oil, (W)ater, (A)ir	EPA Method 6010 Metals (*)	EPA Method 9010 Cyanide (Total)	EPA Method 8010C VOCs	EPA Method 8270 PAHs	8015M TPH-Gas	8015M TPH-Diesel	6010 Dissolved Metals (*)	Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
7/14/00	16:35	Tank				X	X	X	X		9	(*) TOTAL METALS IN PRESERVED CONTAINER - FILTER AND HOLD SAMPLE IN UNPRESERVED BOTTLE FOR METALS - Detection limits: Hg - 0.2 µg/L Cd - 2 µg/L As, Cr, Ni, Cu, Pb, Mo, Se, Ag = 5 µg/L Sb, Be, Th, Zn = 10 µg/L Cyanide = 10 µg/L (X) place on hold
7/16/00	11:10	W1						X	X		5	
7/16/00	12:02	W2		X	X	X	X	X	X	(X)	12	
7/16/00	12:57	W3						X	X		5	
		W4						X	X		5	
7/16/00	15:48	W5						X	X		5	
7/16/00	16:25	W6						X	X		5	
7/15/00	21:05	W7		X	X	X	X	X	X	(X)	12	
7/16/00	15:08	W8						X	X		5	
7/16/00	14:18	W9						X	X		5	
7/15/00	12:05	W10						X	X		5	
7/15/00	15:40	W11		X	X	X	X	X	X	(X)	12	
7/15/00	13:37	W12						X	X		5	
7/15/00	16:30	W13						X	X		5	
7/15/00	17:50	W14						X	X		5	
7/15/00	12:35	W15						X	X		5	
7/15/00	19:23	W16		X	X	X	X	X	X	(X)	12	
7/15/00	11:08	W17						X	X		5	
7/15/00	10:00	W18						X	X		5	
7/15/00	09:30	Trip Blank						X			3	
7/15/00	19:23	W-16 Duplicate Dup		X	X	X	X			(X)	8	
7/15/00	10:00	W-18 Duplicate Dup						X	X		5	
7/15/00	16:50	W-13 Duplicate Dup						X	X		5	

RUSH

3.4

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	7/16/00 1645			7/16 1730	

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY (Signature)	DATE/TIME
				7/16 1730