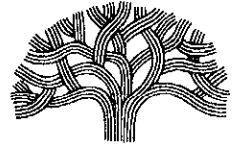


CITY OF OAKLAND



DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA, SUITE 5301 • OAKLAND, CALIFORNIA 94612-2034

Public Works Agency
Environmental Services

FAX (510) 238-7286
TDD (510) 238-7644

February 26, 2001

4457

Mr. Barney Chan
Alameda County Environmental Health Services
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject: Results of Groundwater Monitoring on December 22, 2000
2662 Fruitvale Avenue Oakland, California

Dear Mr. Chan:

Enclosed is a copy of the subject report, prepared by our consultant, Innovative Technical Solutions, Inc., for the property located at 2662 Fruitvale Avenue in Oakland. Additionally, this report describes periodic application of hydrogen peroxide in select monitoring wells from August to December 2000.

The latest results showed a significant improvement in groundwater quality in monitoring well MW-F4 since the last monitoring events. Free- floating product was not observed in any of the wells.

Please call me at 238-6259, if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph A. Cotton".

Joseph A. Cotton
Environmental Program Specialist



February 21, 2001

Project No: 97-037

Mr. Joseph Cotton
City of Oakland Environmental Services
250 Frank H. Ogawa Plaza, Suite 5301
Oakland, CA 94612

Results of Semi-Annual Groundwater Monitoring on December 22, 2000
2662 Fruitvale Avenue
Oakland, California

Dear Mr. Cotton:

Innovative Technical Solutions, Inc. (ITSi) is pleased to provide the results of the semi-annual groundwater monitoring performed on December 22, 2000 for the property located at 2662 Fruitvale Avenue in Oakland. Additionally, a discussion of the periodic application of hydrogen peroxide in selected monitoring wells from August through December is provided.

Figure 1 shows the site layout and approximate location of the monitoring wells sampled as part of this semi-annual groundwater monitoring event. The semi-annual groundwater monitoring included monitoring seven monitoring wells, MW-F1 through MW-F6 and MW-13, and sampling five monitoring wells, MW-F2, MW-F4, MW-F5, MW-F6, and MW-13. Monitoring wells MW-F1 and MW-F3 were removed from the semi-annual sampling program as suggested in the November 18, 1999, letter from Alameda County.

The purpose of this groundwater monitoring program is to identify changes in shallow groundwater quality at the site over time, including an evaluation of groundwater conditions that may serve as indicators of intrinsic bioremediation of petroleum hydrocarbons occurring beneath the site. On October 31, 1998, oxygen-releasing compounds (ORC) were placed in the saturated zone along the downgradient property line to enhance natural biodegradation of the petroleum hydrocarbons, and a petroleum hydrocarbon-absorbent sock was placed in MW-13 to recover available free product during this monitoring event. These events were documented in the *Completion Report, Treatment of Groundwater Impacted with Petroleum Hydrocarbons Using Enhanced Natural Bioremediation*, (Innovative Technical Solutions, Inc., December 28, 1998).

Providing Turnkey Engineering and Remediation Services

2855 Mitchell Drive, Suite 111,
Walnut Creek, CA 94598

(925) 256-8898
(925) 256-8998 fax
www.itsi.com

SCOPE OF WORK

Addition of Hydrogen Peroxide

Hydrogen peroxide (over-the-counter medical grade 3% hydrogen peroxide in solution) was applied directly into the groundwater in two monitoring wells at the site, MW-F4 and MW-13, starting on August 31, 2000. The hydrogen peroxide was applied weekly (consisting of 96-ounces per well) for 4 weeks, followed by a 2-week period of no application, and then interim sampling was performed on October 6, 2000 on the two wells where the hydrogen peroxide was being applied. The interim sampling was performed consistent with procedures identified above for the semi-annual groundwater monitoring.

The application sequence was then repeated. Following completion of the second interim sampling event on November 13, 2000, hydrogen peroxide was applied weekly for an additional 2 weeks. Following a period of approximately 4 weeks when no hydrogen peroxide was applied to the wells, the semi-annual groundwater sampling was performed on December 22, 2000.

Groundwater Monitoring and Sampling

Prior to groundwater sample collection, the depth to groundwater was measured in each of the groundwater monitoring wells. The groundwater monitoring wells were checked for the presence of floating product using disposable bailers. Product was not observed in the groundwater monitoring wells. Depth to water levels were measured in each of the monitoring wells using a water level meter accurate to 0.01 foot. Depth to water measurements were recorded on a Monitoring Well Water Level Measurement Form for each monitoring well. A copy of the Monitoring Well Water Level Measurement Form is included in Appendix A.

Subsequent to depth to water measurements, the monitoring wells were purged using a peristaltic pump and dedicated tubing. The water column in each groundwater monitoring well was used for the calculation of three well casing water volumes to estimate the approximate amount of water to be removed for stabilization. Water was removed from the monitoring wells by pumping until at least three volumes were removed. The field parameters of pH, conductivity, temperature, oxidation-reduction potential (ORP in mV), and dissolved oxygen were observed during purging activities for indications of aquifer and groundwater stabilization using a Horiba U-10 meter equipped with a flow-through cell. The field parameters were recorded on Monitoring Well Purge and Sample Forms. Copies of the Monitoring Well Purge and Sample Forms are included in Appendix A.

Groundwater samples were collected from each monitoring well using the peristaltic pump. The tubing is dedicated for use at each monitoring well. Groundwater for sample collection was transferred directly into preserved laboratory-provided sample containers. Groundwater samples containers were then labeled, placed on ice in an insulated cooler, and transported under chain-of-custody procedures to Chromalab, Inc., a California-certified laboratory.

Groundwater samples were analyzed for the following constituents:

- Total Petroleum Hydrocarbons as gasoline (TPHg) by modified EPA Method 8015
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020A
- Nitrate, sulfate, total and soluble iron.

RESULTS

Groundwater elevations are summarized in Table 1 and shown on Figure 1. Results of groundwater sample analyses are summarized in Table 2 and shown on Figures 2 and 3. Copies of the analytical results and chain-of-custody forms are included in Appendix B.

Depth to groundwater ranged from approximately 9 to 10 feet below ground surface (bgs). Groundwater flow direction was generally towards the west-southwest, at a gradient of approximately 0.02 feet per foot. The groundwater flow direction as measured on December 22, 2000 is generally consistent with groundwater flow directions from previous monitoring events, with the exception of a slight increase in elevation in monitoring well MW-F4 relative to the other wells measured.

Floating product was not observed in the seven groundwater monitoring wells monitored during this monitoring and sampling event. However, a sheen was observed in groundwater removed from monitoring well MW-13 during the two interim sampling events and semi-annual sampling event during the period of October to December 2000. As noted above, a petroleum hydrocarbon-absorbent sock was placed in MW-13 to remove available free product from the surface of the groundwater, and has been routinely changed during previous monitoring events. The absorbent sock in monitoring well MW-13 exhibited black staining at the surface water interface and a strong petroleum hydrocarbon odor was noted from the well.

Petroleum Hydrocarbons

TPHg was detected in groundwater samples collected from two monitoring wells, MW-F4 and MW-13, at concentrations of 4.7 and 9.2 milligrams per liter (mg/L), respectively. TPHg was reportedly not detected (at a detection limit of 0.05 mg/L) in the groundwater samples collected from monitoring wells MW-F2, MW-F5 and MW-F6.

Volatile organic indicator compounds were detected in two monitoring wells, MW-F4 and MW-13, as discussed below:

- Benzene was detected in groundwater samples collected from MW-F4 and MW-13 at concentrations of 0.054 and 0.27 mg/L, respectively. Benzene concentrations detected in MW-F4 and MW-13 exceed the Maximum Contaminant Level (MCL) for benzene of 0.001 mg/L.
- Toluene, ethylbenzene and xylenes were detected in groundwater samples collected from MW-F4 at concentrations of 0.0096, 0.85, 0.34 mg/L, respectively. Toluene, ethylbenzene and xylenes were detected in groundwater samples collected from MW-13 at concentrations of 0.033, 0.53, and 0.12 mg/L, respectively. The ethylbenzene concentration detected in MW-F4 exceeds the MCL for ethylbenzene of 0.7 mg/L.

Volatile organic indicator compounds were reportedly not detected (at a detection limit of 0.0005 mg/L) in groundwater samples collected from the remaining three monitoring wells sampled.

Intrinsic Bioremediation Indicator Compounds

Table 3 provides the results of bioremediation indicator parameters, including laboratory and field measurements, for the December 22, 2000 groundwater monitoring and sampling event and previous events performed during 2000. As shown in Table 3, the following indicator parameters were reported:

- Soluble iron, representing ferrous iron (Fe²⁺), was detected in three of the monitoring wells sampled, MW-F4, MW-F6 and MW-13, at concentrations from 0.29 to 6.7 mg/L, with the highest concentration reported in MW-13.
- Nitrate was detected in three of the five monitoring wells sampled, MW-F5, MW-F6 and MW-13, at concentrations from 1.0 to 23 mg/L, with the highest concentration reported in MW-F5.
- Sulfate was detected in four of the five wells sampled, MW-F2, MW-F4, MW-F5 and MW-F6, at concentrations ranging from 9.9 to 61 mg/L, with the highest concentration reported in MW-F6.

Dissolved oxygen and ORP, as monitored in the field during purging of the monitoring wells, were relatively high in the three monitoring wells outside the affected groundwater, consistent with previous monitoring events.

ORP, and thus likely dissolved oxygen¹, in MW-F4 and MW-13 within the affected groundwater plume were very low during the previous June 2000 monitoring event. Both wells responded to the addition of hydrogen peroxide. Results for MW-F4 indicated high oxygen conditions and elevated ORC readings during the first of two interim monitoring events, and these levels persisted at near-normal levels through the semi-annual monitoring in December 2000. Results for MW-13 indicated a slower response to the addition of hydrogen peroxide, but indicated an increase to near-background oxygen conditions by the time of the semi-annual monitoring event. (*O₂ from H₂O₂ being consumed*)

DISCUSSION

Free floating product was not observed in monitoring well MW-13 or the other monitoring wells during the January 2000 sampling event. However, a sheen was observed on the water removed from MW-13, a strong odor was noted from the well, and black staining was observed on the absorbent sock.

The extent of the affected groundwater plume appears relatively limited. The location and extent of the plume is consistent with observations made during previous sampling events. TPHg and BTEX were not reported in up-gradient monitoring well MW-F2. TPHg and BTEX were not reported in MW-F5 and MW-F6, which are located downgradient of MW-13. Previous sporadic detection of TPHg (June 1995), benzene (June 1997), and xylenes (December 1995) indicate MW-F5 is located near the downgradient margin of the plume.

The concentrations of TPHg and BTEX reported in MW-F4 and MW-13, located in the southwest corner of the site and offsite to the southwest, respectively, were generally consistent with the data collected during previous monitoring events, and show a general decreasing trend with time. As seen in the graphs in Figure 4, the overall trend of TPHg and benzene in monitoring wells MW-F4 and MW-13 is decreasing, especially since the addition of ORC and the recent addition of hydrogen peroxide. Prior to the introduction of the ORC, seasonal water level fluctuations significantly affected TPHg concentrations in monitoring well MW-F4 close to the apparent source area. Since the introduction of the ORC, the historic peaks in TPHg concentrations previously observed during the higher groundwater elevations in the winter have been moderated. Additional reductions are noted following the addition of hydrogen peroxide.

¹ Dissolved oxygen measured in the field during the June 2000 sampling event were not reflective of actual groundwater conditions, and were thus not used in the analysis of the data. ORP, which is generally consistent with dissolved oxygen concentration, was used as an indirect measurement of dissolved oxygen.

*what does
this mean?*

The apparent response of groundwater in MW-F4 to the addition of the hydrogen peroxide was rapid and positive. Within a couple of applications of hydrogen peroxide, the odor from the well was no longer noted, and the dissolved oxygen and ORP increased to above normal conditions. Continued reduction in the TPHg and benzene concentrations in groundwater from this well is expected to continue.

The slight rise in the concentration of TPHg and benzene evident in MW-13 during the last three months may be due to the continued release of residual petroleum hydrocarbons present in the soil at the top of the water table. This is supported by the sheen observed in water from MW-13, and the staining of the absorbent sock. The residual petroleum hydrocarbons are likely the reason why the groundwater in MW-13 responded slowly to the addition of the hydrogen peroxide, as the contaminant mass is higher than in the groundwater at MW-F4. Removal of soil containing residual petroleum hydrocarbons from within the depths between seasonal low and high groundwater levels, and from just above the seasonal high groundwater level may help reduce the mass of petroleum hydrocarbons released to the groundwater.

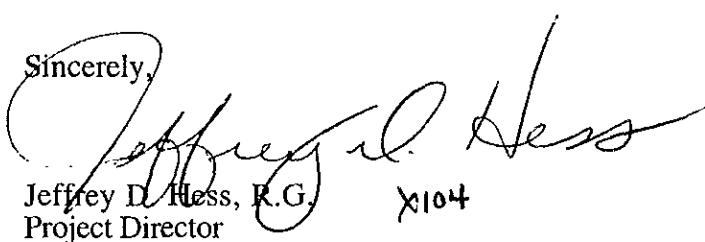
RECOMMENDATIONS

Based on the results of this semi-annual monitoring and sampling event, the following activities are recommended:

- Continued semi-annual water quality monitoring of MW-F2, MW-F4, MW-F5, MW-F6 and MW-13 to monitor the extent of the hydrocarbon plume and the effects of intrinsic bioremediation on the plume.
- Consider the continued periodic application of hydrogen peroxide in monitoring wells MW-F4 and MW-13 to encourage both the chemical oxidation of the TPHg and benzene, and continued biodegradation of these chemicals.

Please call me if you have any questions or need additional information.

Sincerely,



Jeffrey D. Hess, R.G.
Project Director

x104

cc: Kevin O'Dea
Baseline Environmental Consulting

Table 1

**Groundwater Elevations
2662 Fruitvale Avenue
Oakland, California**

Monitoring Well ID	Casing Elevation ¹ (feet)	Date Measured	Product Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Note
MW-F1	104.41	08/16/93	-	11.13	93.28	1
		06/29/94	-	10.38	93.53	1
		09/09/94	-	11.56	92.85	1
		12/21/94	-	8.96	95.45	1
		06/30/95	-	10.49	93.92	1
		12/29/95	-	9.38	95.03	1
		06/27/96	-	10.69	93.72	1
		12/13/96	-	8.55	95.86	1
		06/26/97	-	11.23	93.18	
		03/11/98	-	8.73	95.68	
		12/11/98	-	9.38	95.03	
		06/29/99	-	10.87	93.54	
		01/21/00	-	9.42	94.99	
		06/27/00	-	9.92	94.49	
		12/22/00	-	9.91	94.50	
MW-F2	102.22	08/16/93	-	12.15	90.07	1
		06/29/94	-	11.74	90.48	1
		09/09/94	-	12.21	90.01	1
		12/21/94	-	10.34	91.88	1
		06/30/95	-	11.32	90.90	1
		12/29/95	-	9.94	92.28	1
		06/27/96	-	11.51	90.71	1
		12/13/96	-	8.62	93.60	1
		06/26/97	-	11.96	90.26	
		03/11/98	-	7.70	94.52	
		12/11/98	-	10.40	91.82	
		06/29/99	-	11.42	90.80	
		01/21/00	-	10.32	91.9	
		06/27/00	-	10.47	91.75	
		12/22/00	-	10.52	91.70	
MW-F3	102.42	08/16/93	-	11.99	90.43	1
		06/29/94	-	11.40	91.02	1
		09/09/94	-	12.39	90.03	1
		12/21/94	-	9.32	93.10	1
		06/30/95	-	11.14	91.28	1
		12/29/95	-	10.08	92.34	1
		06/27/96	-	11.31	91.11	1
		12/13/96	-	8.76	93.66	1
		06/26/97	-	11.85	90.57	
		03/11/98	-	8.82	93.6	
		12/11/98	-	9.61	92.81	
		06/29/99	-	11.25	91.17	
		06/27/00	-	10.28	92.14	
		12/22/00	-	10.24	92.18	

Table 1 (Continued)

Groundwater Elevations
2662 Fruitvale Avenue
Oakland, California

Monitoring Well ID	Casing Elevation ¹ (feet)	Date Measured	Product Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Note
MW-F4	101.56	09/09/94	-	11.21	90.35	1
		12/21/94	-	8.00	93.56	1
		06/30/95	-	10.08	91.48	1
		12/29/95	-	8.52	93.04	1
		06/27/96	-	9.75	91.81	1
		12/13/96	-	6.61	94.95	1
		06/26/97	-	10.94	90.62	
		03/11/98	-	8.40 ²	-	
		12/11/98	-	9.40	92.16	
		06/29/99	-	10.36	91.20	
		01/21/00	-	8.11	93.45	
		06/27/00	-	9.43	92.13	
		10/6/00	-	10.80	90.76	
		11/13/00	-	9.50	92.06	
		12/22/00	-	10.80	90.76	
MW-F5	100.32	06/30/95	-	11.09	89.23	1
		12/29/95	-	9.37	90.95	1
		06/27/96	-	11.33	88.99	1
		12/13/96	-	8.72	91.60	1
		06/26/97	-	11.61	88.71	
		03/11/98	-	8.79	91.53	
		12/11/98	-	9.62	90.70	
		06/29/99	-	11.07	89.25	
		01/21/00	-	9.39	90.93	
		06/27/00	-	10.29	90.03	
		12/22/00	-	9.99	90.33	
MW-F6	100.11	06/30/95	-	10.96	89.15	1
		12/29/95	-	9.84	90.27	1
		06/27/96	-	10.98	89.13	1
		12/13/96	-	8.44	91.67	1
		06/26/97	-	11.35	88.76	
		03/11/98	-	8.60	91.51	
		12/11/98	-	10.12	89.99	
		06/29/99	-	10.96	89.15	
		01/21/00	-	9.37	90.74	
		06/27/00	-	10.12	89.99	
		12/22/00	-	9.85	90.26	

Table 1 (Continued)

**Groundwater Elevations
2662 Fruitvale Avenue
Oakland, California**

Monitoring Well ID	Casing Elevation ¹ (feet)	Date Measured	Product Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Note
MW-13	101.20	09/09/94	-	12.27	88.93	1
		12/21/94	-	9.32	91.88	1
		06/30/95	-	11.32	89.88	1
		12/29/95	-	9.00	92.20	1
		06/27/96	-	11.49	89.71	1
		12/13/96	-	8.28	92.92	1
		06/26/97	0.02	11.76	89.45 ³	
		03/11/98	0.02	8.11	93.11 ³	
		12/11/98	-	9.30	91.90	
		06/29/99	-	11.08	90.12	
		06/27/00	-	10.48	90.72	
		01/21/00	-	9.22	91.98	
		06/27/00	-	10.48	90.72	
		10/6/00	-	11.19	90.01	
		11/13/00	-	10.50	90.70	
		12/22/00	-	10.31	90.89	

¹ From Table 3, Groundwater Elevation and Gradient Determination Data, February 7, 1997, BASELINE.

² Depth to groundwater not stabilized.

³ Groundwater elevation calculated assuming a specific gravity of 0.75 for product.

Table 2

Summary of Laboratory Results for Groundwater Samples
2662 Fruitvale Avenue
Oakland, California

Monitoring Well ID	Date Sampled	TPHg (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Xylenes (mg/L)	Total Iron (mg/L)	Soluble Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Note
MW-F1	08/16/93	<0.05	<0.002	<0.002	<0.002	<0.002	-	-	-	-	1
	06/29/94	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	09/09/94	<0.9	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	1
	12/21/94	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	06/30/95	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	12/29/95	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	12/13/96	-	-	-	-	-	-	<0.10	8.5	38	1
	06/26/97	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.1	<0.10	7.7	38	
	03/11/98	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.90	<0.10	11	38	
	12/11/98	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	7.1	38	
	06/29/99	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	30	35	
No longer part of semi-annual monitoring program											
MW-F2	08/16/93	<0.05	<0.002	<0.002	<0.002	<0.002	-	-	-	-	1
	06/29/94	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	09/09/94	<0.9	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	1
	12/21/94	0.096	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	06/30/95	0.34	<0.0005	<0.0005	<0.0005	0.0005	-	-	-	-	1
	12/29/95	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	06/27/96	0.064	0.0012	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	12/13/96	0.06	<0.0005	<0.0005	<0.0005	<0.0005	-	0.24	0.20	8	1
	06/26/97	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.1	<0.10	<0.05	7.4	
	03/11/98	0.20	0.00088	<0.0005	<0.0005	<0.0005	4.8	0.18	<0.05	7.1	
	12/11/98	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.25	<0.10	<0.05	7.8	
	06/29/99	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	<1.0	<1.0	
	01/21/00	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	<0.2	9	
	06/27/00	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	53	<0.10	<1.0	2	
	12/22/00	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	<1.0	9.9	
MW-F3	08/16/93	<0.1	<0.002	<0.002	<0.002	<0.002	-	-	-	-	1
	06/29/94	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	09/09/94	<0.9	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	1
	12/21/94	0.13	<0.0005	0.0013	<0.0005	<0.0005	-	-	-	-	1
	06/30/95	0.11	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	12/29/95	0.35	0.0008	<0.0005	0.0012	0.0007	-	-	-	-	1
	06/27/96	0.088	0.002	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	12/13/96	0.18	<0.0005	<0.0005	<0.0005	<0.0005	-	0.11	0.69	23	1
	6/26/97	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.46	0.16	0.70	23	
	3/11/98	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.11	0.20	2.5	28	
	12/11/98	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.31	0.12	0.97	30	
	6/29/99	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	3	38	
No longer part of semi-annual monitoring program											

Table 2 (Continued)

Summary of Laboratory Results for Groundwater Samples
2662 Fruitvale Avenue
Oakland, California

Monitoring Well ID	Date Sampled	TPHg (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	Total Iron (mg/L)	Soluble Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Note
MW-F4	09/94*	3.5	<0.029	0.003	0.038	0.099	-	-	-	-	1
	12/21/94	37	0.66	28	2.3	5.9	-	-	-	-	1
	06/30/95	9.2	0.10	<0.1	0.76	1.0	-	-	-	-	1
	12/29/95	38	0.61	0.019	4.3	5.8	-	-	-	-	1
	06/27/96	6.2	0.091	0.14	0.52	0.29	-	-	-	-	1
	12/13/96	27	0.30	0.05	3.2	3.7	-	6.6	<0.05	<2	1
	06/26/97	6.2	0.10	0.018	0.71	0.32	2.4	3.1	<0.05	0.2	
	03/11/98	9.5	0.062	0.03	1.0	0.80	1.2	3.0	<0.05	<0.1	
	12/11/98	12	0.34	0.051	2.0	0.62	5.7	5.9	<0.05	1.5	
	06/29/99	10	0.23	0.032	1.8	0.30	0.93	0.90	<1.0	9	
	01/21/00	7.9	0.033	<0.005	1.0	0.25	13	2.7	<0.2	<1.0	
	06/27/00	10	0.08	<0.025	1.1	0.32	160	<0.10	<1.0	<1.0	
A →	10/6/00	3	0.011	0.0018	0.12	0.069	0.24	<0.10	2.1	38	
	11/13/00	3.9	0.039	0.016	0.84	0.30	0.14	<0.10	<1.0	13	
A →	12/22/00	4.7	0.054	0.0096	0.83	0.34	0.32	0.17	<1.0	11	
MW-F5	06/30/95	0.10	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	12/29/95	<0.05	<0.0005	<0.0005	<0.0005	0.0007	-	-	-	-	1
	06/27/96	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	12/13/96	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	6.6	45	1
	06/26/97	<0.05	0.0032	0.0064	0.00073	0.0042	0.21	<0.1	6.1	45	
	03/11/98	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	6.1	45	
	12/11/98	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.58	0.19	6.0	41	
	06/29/99	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	23	50	
	01/21/00	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.14	<0.10	5.2	42	
	06/27/00	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	60	<0.10	20	37	
	12/22/00	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	23	56	
MW-F6	06/30/95	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	12/29/95	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	06/27/96	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-	-	1
	12/13/96	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-	<0.10	0.44	39	1
	06/26/97	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.22	0.18	<0.05	47	
	03/11/98	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	<0.10	0.14	49	
	12/11/98	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.24	0.11	0.06	43	
	06/29/99	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	0.93	<1.0	54	
	01/21/00	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.11	<0.10	0.5	42	
	06/27/00	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	10	<0.10	<1.0	9	
	12/22/00	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.29	0.15	1.1	61	

Table 2 (Continued)

Summary of Laboratory Results for Groundwater Samples
2662 Fruitvale Avenue
Oakland, California

Monitoring Well ID	Date Sampled	TPHg (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	Total Iron (mg/L)	Soluble Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Note
MW-13	12/21/94	3.3	0.31	<0.013	0.024	0.24	-	-	-	-	1
	06/30/95	22	0.85	<0.0005	1.2	1.6	-	-	-	-	1
	12/29/95	22	0.97	0.078	1.8	2.4	-	-	-	-	1
	06/27/96	18	0.63	0.026	1.1	1.0	-	-	-	-	1
	12/13/96	16	0.67	0.04	1.2	1.0	-	6.8	<0.05	<2	1
	6/26/97*	11	0.42	0.037	0.64	0.26	7.7	6.9	<0.05	0.3	
	3/11/98*	13	0.30	<0.025	0.89	0.51	4.3	6.7	<0.05	2.3	
	12/11/98	12	0.47	0.048	1.1	0.48	6.6	7.0	<0.05	16	
	06/29/99	7	0.21	0.13	0.44	0.11	1.3	1.3	<1.0	11	
	01/21/00	7.3	0.035	<0.005	0.62	0.22	7.3	6.9	<0.2	<1.0	
	06/27/00	6.1	0.11	<0.025	0.27	0.038	15	<0.10	1	2	
	10/6/00	4.6	0.10	<0.025	0.19	0.036	4.3	3.5	<1	5.4	
	11/13/00	6.0	0.22	0.035	0.47	0.12	4.5	1.4	1.1	1.7	
	12/22/00	9.2	0.27	0.033	0.53	0.12	6.7	6.7	1.0	<1.0	
MCL		-	-	0.001	0.150	0.700	1.75	-	-	-	-

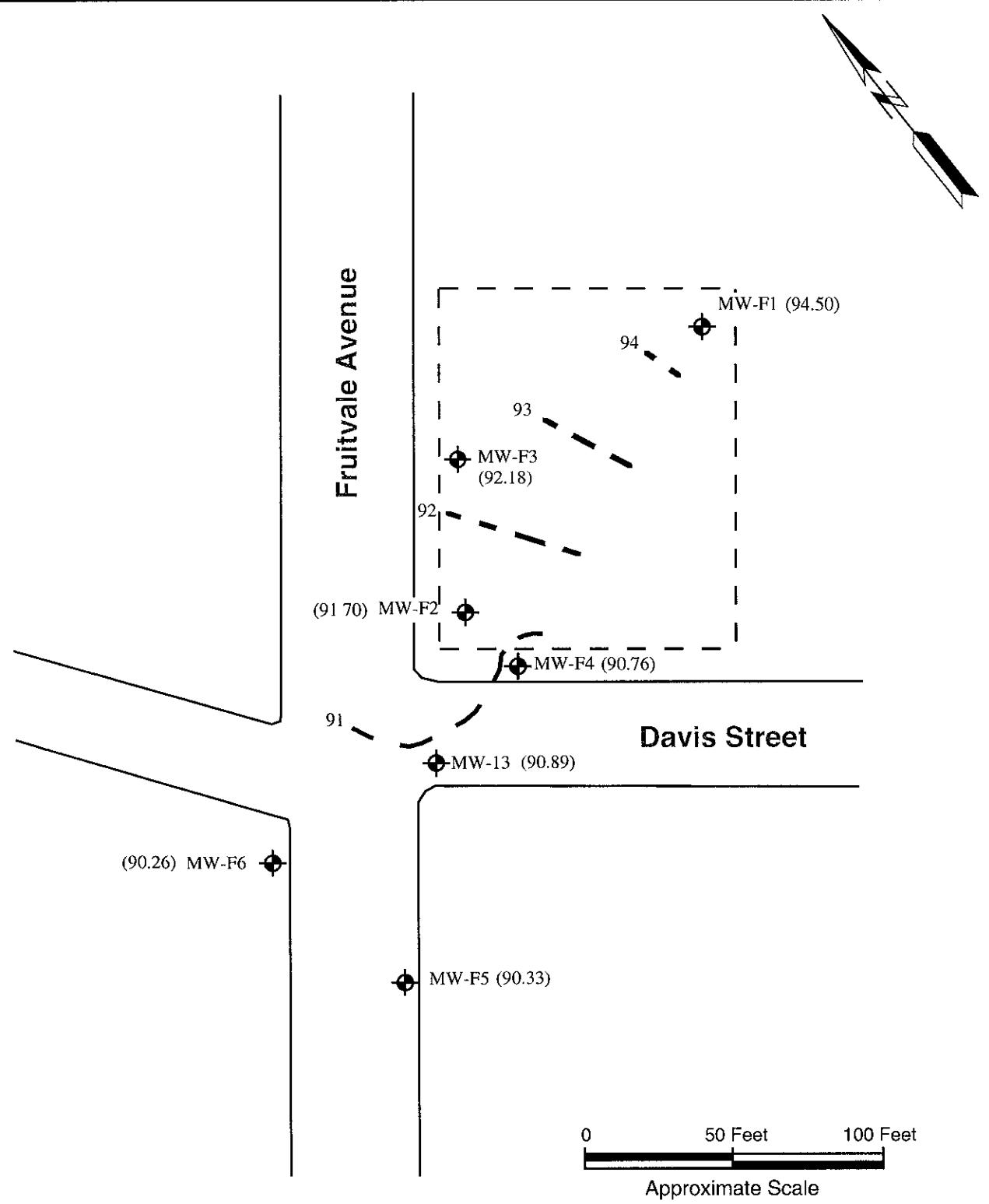
Note: Bold indicates detected concentrations. Shaded indicates concentrations exceeding MCLs.

1 Historical laboratory data provided by Baseline Environmental Consulting.

* Higher concentration reported for either the sample or field duplicate sample (QC/1)

Table 3**Bioremediation Indicator Parameters****2662 Fruitvale Avenue****Oakland, California**

Monitoring Well ID	Date	Total Iron (mg/L)	Soluble Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Oxygen (mg/L)	ORP (mV)
MW-F2	1/23/00	<0.10	<0.10	<0.2	9	8.63	121
	6/27/00	53	<0.10	<1.0	2	NA	130
	12/22/00	<0.10	<0.10	<1.0	9.9	9.12	155
MW-F4	1/23/00	13	2.7	<0.2	<1.0	9.19	81
	6/7/00	160	<0.10	<1.0	<1.0	NA	-57
	10/6/00	0.24	<0.10	2.1	38	17.37	283
	11/13/00	0.14	<0.10	<1.0	13	19.23	164
	12/22/00	0.32	0.17	<1.0	11	7.95	164
MW-F5	1/23/00	0.14	<0.10	5.2	42	8.53	189
	6/27/00	60	<0.10	20	37	NA	157
	12/22/00	<0.10	<0.10	23	56	9.69	95
MW-F6	1/23/00	0.11	<0.10	0.5	42	9.17	156
	6/27/00	10	<0.10	<1.0	9	NA	141
	12/22/00	0.29	0.15	1.1	61	8.82	100
MW-13	1/23/00	7.3	6.9	<0.2	<1.0	9.15	87
	6/7/00	15	<0.10	1.0	2	NA	-48
	10/6/00	4.3	3.5	<1.0	5.4	0.80	-36
	11/13/00	4.5	1.4	1.1	1.7	0.06	9.23
	12/22/00	6.7	6.7	1.0	<1.0	8.22	56

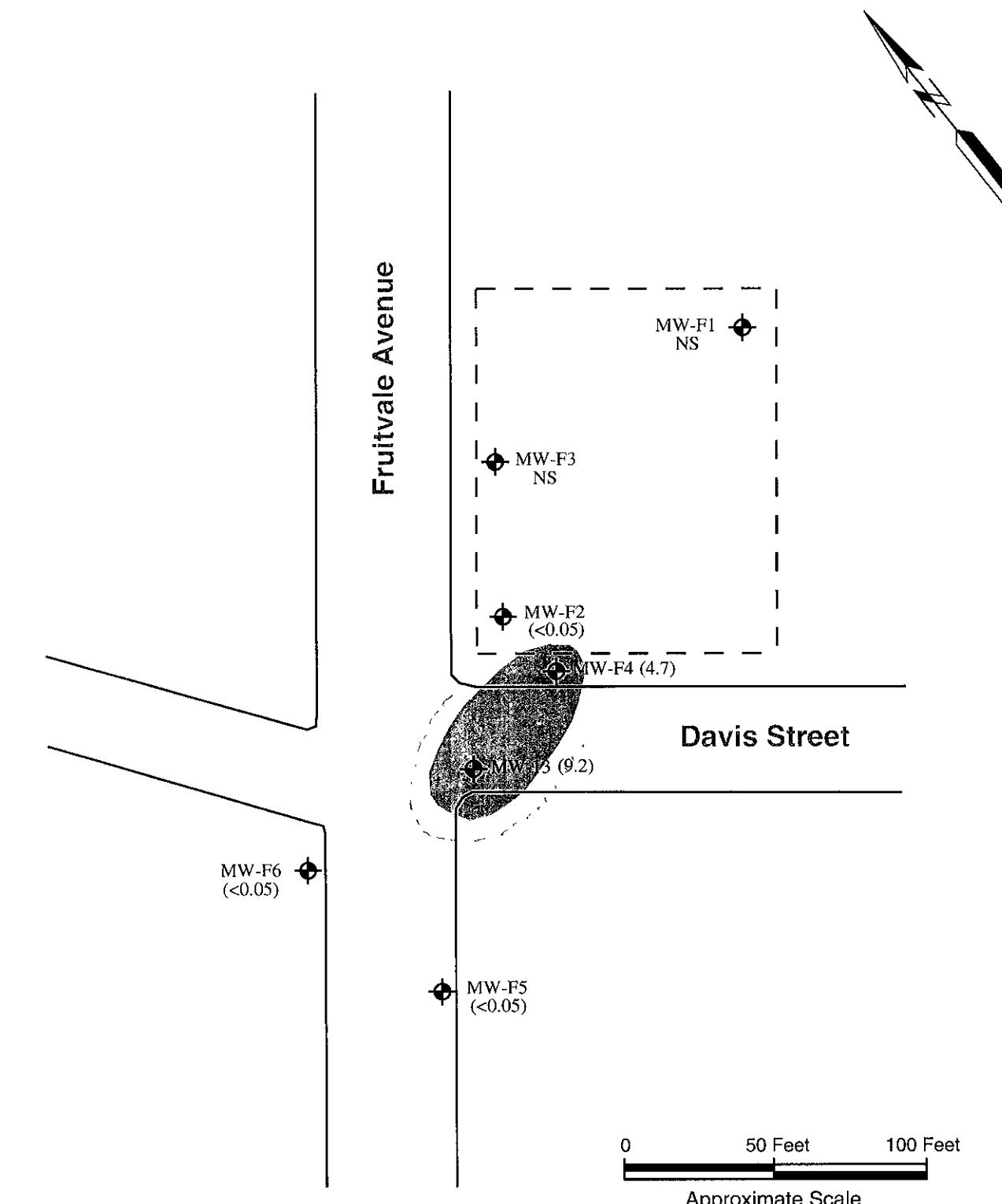


Legend

- Approximate Location of Monitoring Wells
- 90.26 Groundwater Elevations
- Lines of Equal Groundwater Elevations

Source Modified from Figure 3, Groundwater Elevation Contour Map, 13 December 1996,
BASELINE

FIGURE 1
**GROUNDWATER ELEVATIONS MEASURED
ON DECEMBER 22, 2000**
2662 Fruitvale Avenue
Oakland, California
ITSI
CITY OF OAKLAND
INNOVATIVE TECHNICAL SOLUTIONS, INC.

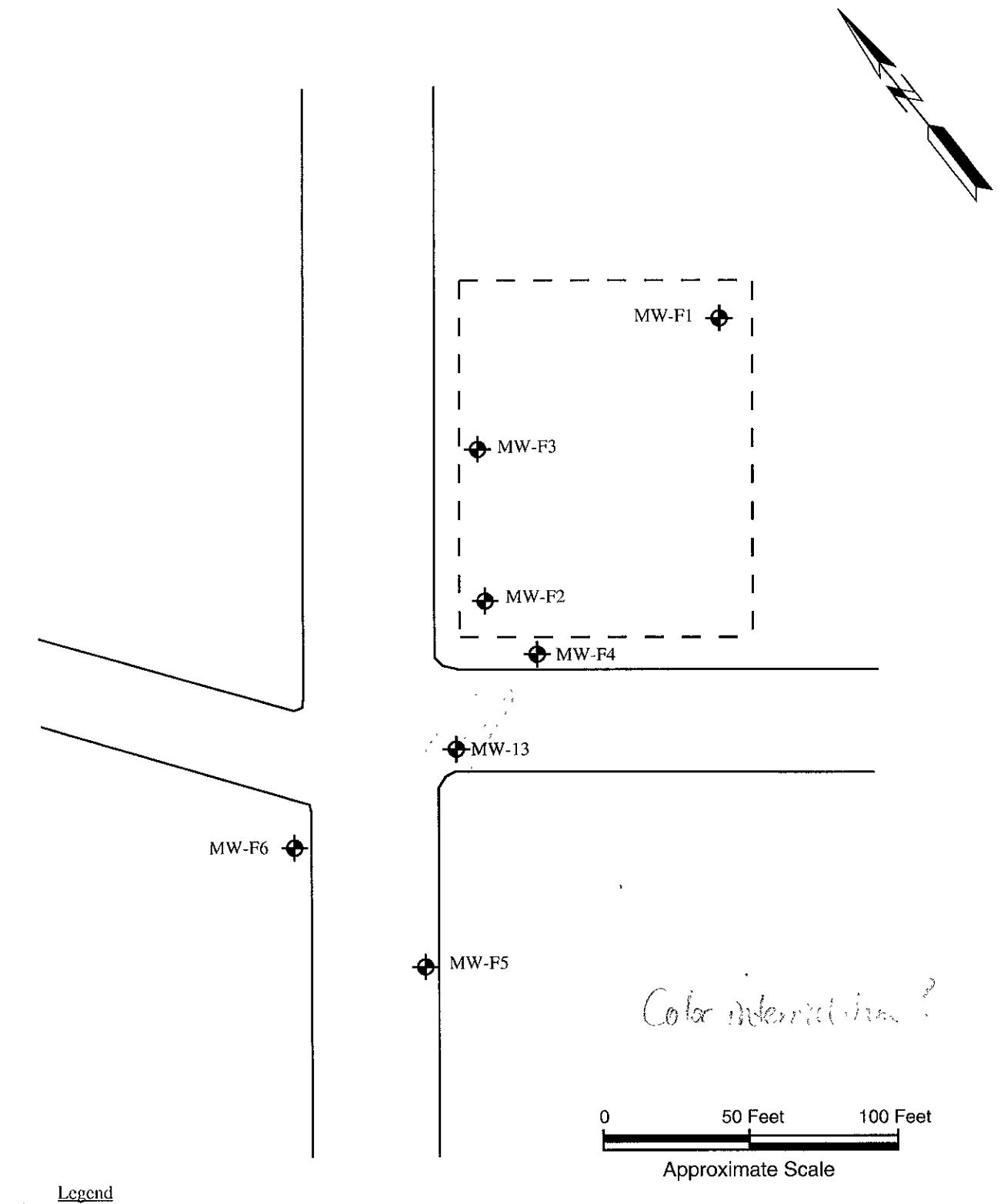


Source: Modified from Figure 3, Groundwater Elevation Contour Map, 13 December 1996, BASFLINE

FIGURE 2
LABORATORY RESULTS FOR
TPHg FOR SAMPLES COLLECTED ON
DECEMBER 22, 2000

2662 Fruitvale Avenue
 Oakland, California
CITY OF OAKLAND
INNOVATIVE TECHNICAL SOLUTIONS, INC.

ITSI



Source Modified from Figure 3, Groundwater Elevation Contour Map, 13 December 1996,
BASLINE

FIGURE 3
LABORATORY RESULTS FOR
BENZENE FOR SAMPLES COLLECTED ON
DECEMBER 22, 2000

2662 Fruitvale Avenue
Oakland, California

ITSI
CITY OF OAKLAND
INNOVATIVE TECHNICAL SOLUTIONS, INC.

Figure 4a: Graph of Historical Concentrations of TPHg in MW-F4 and MW-13

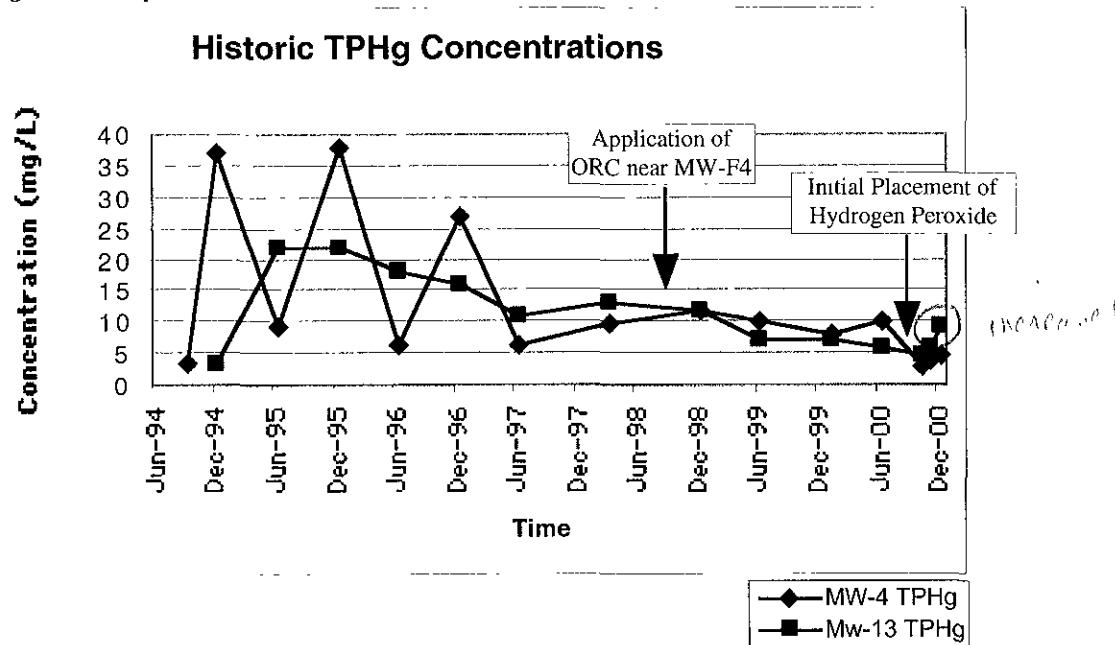


Figure 4b: Graph of Historical Concentrations of TPHg in MW-F4 and MW-13

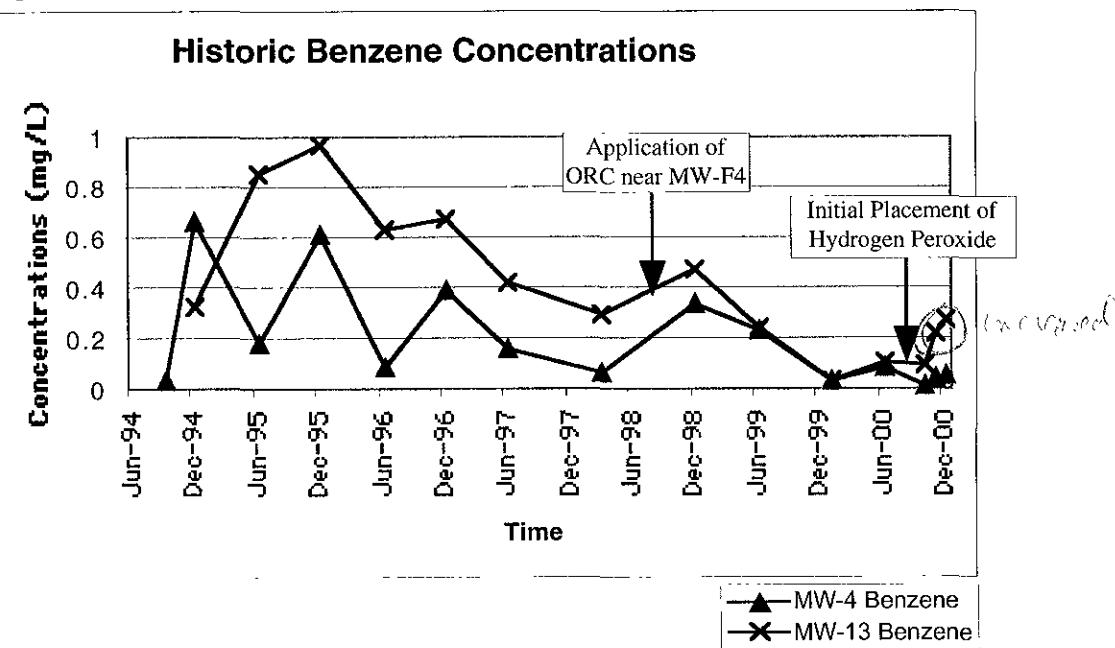


FIGURE 4

**GRAPHS OF HISTORICAL CONCENTRATION
TRENDS FOR TPHg AND BENZENE**

 2662 Fruitvale Avenue
 Oakland, California


CITY OF OAKLAND

INNOVATIVE TECHNICAL SOLUTIONS, INC.

APPENDIX A

COPIES OF MONITORING WELL PURGE AND SAMPLE FORMS

MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: 2662 Fruitcake AvePROJECT NO.: 97.037.03WELL NO.: MW-13TESTED BY: T. WATCHERSDATE: 10-6-00Measuring Point Description: TDCStatic Water Level (ft.): 11.19Total Well Depth (ft.): 23.00Sample Method: P. pumpWater Level Measurement Method: SalinistTime Sampled: 3:20Purge Method: D. PumpSample Depth (ft.): 20 ft bottomTime Start Purge: 2:40Field Filtering: yes soluble Fe outTime End Purge: 3:19Field Preservation: HCl → WDA₅ (lab)Comments: odor during purging

Well Volume Calculation (fill in before purging)	Total Depth (ft) <u>23</u>	-	Depth to Water (ft) <u>11.19</u>	=	Water Column (ft) <u>11.81</u>	Multiplier for Casing Diameter (in)			Casing Volume (gal) <u>1.88</u>
						x	(2)	4	
							0.16	0.64	1.44
Time	2:40		2:45		2:52	3:00	3:07	3:15	3:19
Volume Purged (gals)	0		1		1	1	1	1	1
Cumulative Volume Purged (gals)	0		1		2	3	4	5	6
Cumulative Number of Casing Volumes	0		0.5		1	1.5	2	2.5	3
Purge Rate (gpm)	0		0.2		0.14	0.125	0.14	0.125	0.125
Temperature (F°) or (C°)	21.6		21.2		20.9	20.7	20.6	20.6	20.6
pH	7.00		6.97		6.94	6.92	6.91	6.91	6.91
Specific Conductivity (mS/cm)	734		737		738	740	740	742	742
Dissolved Oxygen (mg/L)	0.81		0.75		1.12	1.00	0.82	0.80	0.80
Turbidity/Color (NTU)	8		19		24	32	29	24	24
Odor	No		Yes		Yes	Yes	Yes	Yes	Yes
Dewatered?	No		No		No	No	No	No	No

mw

15

8

3

21

-42

-36

-3c

MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: 2662 Fruitvale AvePROJECT NO.: 97-037.03WELL NO.: MW-F4TESTED BY: T. WATCHERS DATE: 10-6-00Measuring Point Description: 'TOC (n)Static Water Level (ft.): 10.80Total Well Depth (ft.): 16.65Sample Method: P. pumpWater Level Measurement Method: SolinstTime Sampled: 2:00 PMPurge Method: P. PumpSample Depth (ft.): at 15 ft (bottom)Time Start Purge: 1:30Field Filtering: yes - Soluble Fe onlyTime End Purge: 1:57Field Preservation: UOA - HCl (Lab)Comments: odor (petroleum)

Well Volume Calculation (fill in before purging)	Total Depth (ft)	Depth to Water (ft)	=	Water Column (ft)	Multiplier for Casing Diameter (in)			Casing Volume (gal)
					2	4	6	
	<u>16.65</u>	<u>10.80</u>	=	<u>5.85</u>	x	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>
Time	<u>1:30</u>	<u>1:38</u>		<u>1:41</u>	<u>1:44</u>	<u>1:48</u>	<u>1:52</u>	<u>1:57</u>
Volume Purged (gals)	<u>0</u>	<u>0.5</u>		<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>
Cumulative Volume Purged (gals)	<u>0</u>	<u>0.5</u>		<u>1.0</u>	<u>1.5</u>	<u>2.0</u>	<u>2.5</u>	<u>3.0</u>
Cumulative Number of Casing Volumes	<u>0</u>	<u>0.5</u>		<u>1.0</u>	<u>1.5</u>	<u>2.0</u>	<u>2.5</u>	<u>3.0</u>
Purge Rate (gpm)	<u>0</u>	<u>0.06</u>		<u>0.16</u>	<u>0.16</u>	<u>0.12</u>	<u>0.12</u>	<u>0.16</u>
Temperature (F°) or (C°)	<u>21.7</u>	<u>22.0</u>		<u>22.2</u>	<u>22.3</u>	<u>22.2</u>	<u>21.8</u>	<u>21.8</u>
pH	<u>6.57</u>	<u>6.59</u>		<u>6.59</u>	<u>6.56</u>	<u>6.57</u>	<u>6.62</u>	<u>6.60</u>
Specific Conductivity (mS/cm)	<u>0.682</u>	<u>0.634</u>		<u>0.598</u>	<u>0.596</u>	<u>0.592</u>	<u>0.596</u>	<u>0.600</u>
Dissolved Oxygen (mg/L)	<u>19.91</u>	<u>19.91</u>		<u>19.42</u>	<u>16.34</u>	<u>14.62</u>	<u>15.91</u>	<u>17.37</u>
Turbidity/Color (NTU)	<u>16</u>	<u>22</u>		<u>24</u>	<u>21</u>	<u>19</u>	<u>20</u>	<u>25</u>
Odor	<u>no</u>	<u>no</u>		<u>yes</u>	<u>yes</u>	<u>yes</u>	<u>yes</u>	<u>yes</u>
Dewatered?	<u>no</u>	<u>no</u>		<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>

m.v. 228 251 281 305 303 289 283

MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: 2662 Fructus

PROJECT NO.: 97-037.03

MEASURED BY: T. WATCHERS

DATE: 10-6-65

MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: Fruit ValePROJECT NO.: 97-037.03WELL NO.: MW-F4TESTED BY: RG & CCDATE: 11/13/00Measuring Point
Description:TOCStatic Water Level
(ft.):9.50Total Well Depth
(ft.):16.91

Sample Method:

peristatic pump + dischargeWater Level Measurement
Method:Solinst
Interface Probe

Time

Sampled:

11:30

Purge Method:

peristatic pump

Sample Depth

(ft.):

~10'Time Start Purge: 10:35AM

Field Filtering:

Rinse metaloTime End
Purge:11:27

Field Preservation:

HNO₃, HCl

Comments

Well Volume Calculation (fill in before purging)	Total Depth (ft)	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			Casing Volume (gal)
						2	4	6	
						0.16	0.64	1.44	
	<u>16.91</u>	<u>9.50</u>	=	<u>7.41</u>					<u>1.18</u>
									<u>3.005 > 3.69 gal</u>

Time	<u>10:35AM</u>	<u>10:55AM</u>	<u>11:15</u>	<u>11:25</u>				
Volume Purged (gals)	<u>1.20.10</u>	<u>1.20</u>	<u>1.20</u>	<u>1.20</u>				
Cumulative Volume Purged (gals)	<u>1.20.10</u>	<u>2.40</u>	<u>2.50</u>	<u>3.70</u>				
Cumulative Number of Casing Volumes	<u>0</u>	<u>A</u>	<u>2</u>	<u>3</u>				
Purge Rate (gpm)	<u>0.15</u>	<u>0.15</u>	<u>0.15</u>	<u>0.15</u>				
Temperature (F°) or (C°)	<u>21.3 °C</u>	<u>21.5 °C</u>	<u>21.4 °C</u>	<u>21.3 °C</u>				
pH	<u>5.80</u>	<u>5.80</u>	<u>5.85</u>	<u>5.96</u>				
Specific Conductivity (mS/cm)	<u>0.580</u>	<u>.577</u>	<u>.565</u>	<u>.570</u>				
Dissolved Oxygen (mg/L)	<u>19.99</u>	<u>12.53</u>	<u>17.89</u>	<u>19.23</u>				
ORP	<u>220</u>	<u>201</u>	<u>157</u>	<u>164</u>				
Turb					<u>13 NTU</u>	<u>13 NTU</u>	<u>15 NTU</u>	

MONITORING WELL PURGE AND SAMPLE FORM

2662
PROJECT NAME: Fruit Vale

PROJECT NO.: 97-037.03

WELL NO.: MW-13

TESTED BY: LG & CC

DATE: 11/13/00

Measuring Point
Description:

TBC

Static Water Level
(ft.):

10.50

Total Well Depth
(ft.):

23.25

Sample Method: peristaltic pump discharge

Water Level Measurement
Method:

Solvent Interface

Time
Sampled:

12:05 PM

Purge Method:

peristaltic pump

Sample Depth
(ft.):

11'

Time Start Purge: 11:50

Field Filtering: None metal

Time End
Purge:

12:37

Field Preservation:

HNO₃, HCl

Comments

:

Well Volume Calculation (fill in before purging)	Total Depth (ft) <u>22.75</u>	Depth to Water (ft) <u>10.50</u>	=	Water Column (ft) <u>12.75</u>	Multiplier for Casing Diameter (in)			Casing Volume (gal) <u>2.04</u>
					x	2	4	
						0.16	0.64	1.44

Time	<u>11:50</u>	<u>12:05</u>	<u>12:20</u>	<u>12:35</u>				
Volume Purged (gals)	.20	2.0 gal	20 gal	2.0 gal				
Cumulative Volume Purged (gals)	.20	2.20	4.20 gal	6.20				
Cumulative Number of Casing Volumes	0	1	2	3				
Purge Rate (gpm)	.15	.15	.20	.20				
Temperature (F°) or (C°)	<u>21.2 °C</u>	<u>20.7 °C</u>	<u>20.5 °C</u>	<u>20.6 °C</u>				
pH	6.37	6.33	6.39	6.42				
Specific Conductivity (mS/cm)	.713	.724	.726	.728				
Dissolved Oxygen (mg/L)	0.52	0.26	0.12	0.06				
Turbidity	15 NTU	5 NTU	17 NTU	8 NTU				
ORP	9.0	9.07	9.02	9.23				



2855 Mitchell Drive, Suite 111
Walnut Creek, California 94598
(925) 256-8898 (Tel), (925) 256-8998 (Fax)

CHAIN-OF-CUSTODY



PROJECT NAME: 2662 FRUITVALE

PROJECT NUMBER: 97-037.03

SITE LOCATION: 2662 FRUITVALE AVENUE

DATE: 12/22/00
PAGE 1 OF 2

DAILY ACTIVITY REPORT

TIME	DESCRIPTION OF FIELD ACTIVITIES AND EVENTS	REFERENCE SKETCH
0800	ORGANIZE SAMPLING GEAR AT TSI OFFICE.	
1000	ARRIVE AT SITE. SET UP TO SAMPLE. WILL TAKE DTW READINGS FIRST.	
1010	BEGIN TAKING DTW READINGS.	
1015	TOOK DTW READINGS AT WELLS MW-F1 AND MW-F3. WILL SET UP AT WELL MW-F2 AND TAKE DTW READINGS. NO DEDICATED TUBING FOUND AT WELLHEAD TO MW-F2. BEGAN CALIBRATING INSTRUMENTS. WILL USE DEDICATED TUBING FROM WELL MW-F1 TO PURGE WELL MW-F2. (MW-F1 IS "CLEAN" BASED ON 6/29/00 ANALYTICAL RESULTS.). BULB TO PH SENSOR BROKE SO WILL NOT BE ABLE TO MEASURE PH.	
1112	BEGAN PURGING WELL MW-F2 USING PERISTALTIC PUMP.	
1200	FINISHED PURGING WELL MW-F2.	
1210	COLLECTED SAMPLE MW-F2.	
1245	LUNCHBREAK.	
1345	RETURNED FROM LUNCHBREAK. SET UP AT WELL MW-F6.	
1405	BEGAN PURGING WELL MW-F6.	
1443	STOPPED PURGING WELL MW-F6.	
1445	COLLECTED SAMPLE MW-F6.	
1505	Moved to well MW-F5.	
1520	DEDICATED TUBING WILL NOT GO DOWN CASING FAR ENOUGH TO PUMP OUT WATER. WILL RESORT TO BAILING.	
1535	BEGAN BAILING FROM WELL MW-F5.	
PREPARED BY:	A. JENSEN	DISTRIBUTION:
DATE:	12/22/00	
CHECKED BY*:		
DATE:		
PREPARERS SIGNATURE:	R. Jensen	REVIEWERS SIGNATURE:

* Not appropriate for a field activity report when only one responsible person is in the field



Innovative
Technical
Solutions, Inc.

1330 Broadway, Suite 1625
Oakland, California 94612
(510) 286-8888 (Tel), (510) 286-8889 (Fax)

PROJECT NAME: 2662 FRUITVALE

PROJECT NUMBER: 97-037.03

SITE LOCATION: 2662 FRUITVALE AVENUE

DATE: 12/22/00
PAGE 2 OF 2

DAILY ACTIVITY REPORT

TIME	DESCRIPTION OF FIELD ACTIVITIES AND EVENTS
1552	FINISHED BAILING WELL MW-F5.
1555	COLLECTED SAMPLE MW-F5.
1610	MOVED TO WELL MW-13. SET UP TO PURGE WELL.
1617	BEGAN PURGING WELL MW-13.
1648	FINISHED PURGING WELL MW-13.
1650	COLLECTED SAMPLE MW-13.
1700	MOVED TO WELL MW-F4.
1705	BEGAN PURGING WELL MW-F4.
1723	FINISHED PURGING WELL MW-F4.
1725	COLLECTED SAMPLE MW-F4.
1740	DEPARTED SITE, ENROUTE TO CHROMALAB.
1835	DELIVERED SAMPLES TO CHROMALAB.
1920	RETURNED TO ITSI OFFICE. FINISHED FOR THE DAY.

REFERENCE SKETCH

PREPARED BY:	ART JENSEN
DATE:	12/22/00
CHECKED BY*:	
DATE:	

DISTRIBUTION:

PREPARERS SIGNATURE:	Art Jensen	REVIEWERS SIGNATURE:
----------------------	------------	----------------------

* Not appropriate for a field activity report when only one responsible person is in the field.

PROJECT NAME: 2662 FRUITVALE AVENUE

LABORATORY NAME: CHROMALAB, INC.

PROJECT NUMBER: 97-037-03

DATE 12/22/00
PAGE 11 of 11

SITE LOCATION: 2662 FRUITVALE AVENUE, OAKLAND, CA

ADDRESS: 1220 QUARRY LANE, PLEASANTON, CA

CONTACT/PHONE NO.: SURINDER SIDHU (925) 484-1919

SAMPLE ID	SAMPLE DEPTH (FEET)	DATE	TIME	NUMBER OF CONTAINERS	TYPE OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	ANALYSIS										SPECIAL INSTRUCTIONS/COMMENTS	TOTAL NUMBER OF ANALYSES
								TPhg/BTEX	3 X 40ML POLY	1 X 250ML POLY	1 X 250ML HNO3	Soluble Fe (Filtered) 1 X 250mL POLY	Sulfate 1 X 500 mL BOTTLE	Nitrate IN SAME BOTTLE & same					
MW-F2	~15	12/22/00	1210	6	WATER			x	x	x	x	x	x	x					6
MW-F4	~14	1725						x	x	x	x	x	x	x					6
MW-F5	~20	1555						x	x	x	x	x	x	x					6
MW-F6	~15	1445						x	x	x	x	x	x	x					6
MW-13	~15	1650						x	x	x	x	x	x	x					6

TOTAL NUMBER OF CONTAINERS

TOTAL TESTS

6 5 5 5 5

SAMPLED BY:

C.C./A.J.

SPECIAL INSTRUCTIONS/COMMENTS: Please provide sample results to Jeff Hess (jhess@itsi.com) at (925) 256-8898 x104

SIGNATURE:

Art Jensen

RELINQUISHED BY

Printed Name Art Jensen Signature Art Jensen

Company ITSI Date and Time 12/22/00 C1835

RELINQUISHED BY:

Printed Name Signature

RELINQUISHED BY

Printed Name Signature

Company Date and Time

RECEIVED BY

Printed Name D. HARRINGTON Signature Denice Harrington

Company Chromalab Date and Time 12/22/00 C1835

RECEIVED BY:

Printed Name Signature

RECEIVED BY

Printed Name Signature

Company Date and Time

SEND RESULTS TO

Standard TAT

MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: 2662 Fruitvale Avenue PROJECT NO.: 97-037.03
 WELL NO.: MW-F2 TESTED BY: CC/AJ DATE: 12/22/00

Measuring Point Description: T.O.C. Static Water Level (ft.): 10.52
 Total Well Depth (ft.): 19.66 Sample Method: PERISTALTIC PUMP
 Water Level Measurement Method: SOLINST Time Sampled: 1210
 Purge Method: PERISTALTIC PUMP Sample Depth (ft.): 11.5
 Time Start Purge: 1112 Field Filtering: YES FOR SOLUBLE IRON
 Time End Purge: 1200 Field Preservation: HCl FOR VOCs;
 Comments: HNO₃ FOR TOTAL IRON

Well Volume Calculation (fill in before purging)	Total Depth (ft)	Depth to Water (ft)	=	Water Column (ft)	Multiplier for Casing Diameter (in)			Casing Volume (gal)
					x	(2)	4	
	<u>19.66</u>	<u>10.52</u>		<u>9.14</u>		0.16	0.64	<u>1.46</u>
Time	<u>1119</u>	<u>1140</u>		<u>1150</u>		<u>1200</u>		
Volume Purged (gals)	<u>INITIAL</u>	<u>1.5</u>		<u>3</u>		<u>4.5</u>		
Cumulative Volume Purged (gals)	<u>INITIAL</u>	<u>1.5</u>		<u>3</u>		<u>4.5</u>		
Cumulative Number of Casing Volumes	<u>0</u>	<u>1</u>		<u>2</u>		<u>3</u>		
Purge Rate (gpm)	<u>0.07</u>	<u>0.07</u>		<u>0.15</u>		<u>0.15</u>		
Temperature (F°) or (C°)	<u>19.8</u>	<u>20.3</u>		<u>20.1</u>		<u>19.5</u>		
pH	<u>NA</u> <u>4.56</u>	<u>NA</u> <u>4.69</u>		<u>NA</u> <u>4.72</u>		<u>NA</u> <u>5.39</u>	<u>ay.</u>	
Specific Conductivity (mS/cm)	<u>0.406</u>	<u>0.403</u>		<u>0.411</u>		<u>0.416</u>		
Dissolved Oxygen (mg/L)	<u>8.67</u>	<u>8.88</u>		<u>9.01</u>		<u>9.12</u>		
Turbidity (NTU)	<u>10</u>	<u>10</u>		<u>10</u>		<u>10</u>		
ORP (mV)	<u>203</u>	<u>194</u>		<u>195</u>		<u>155</u>		
Odor	<u>NONE</u>	<u>NONE</u>		<u>NONE</u>		<u>NONE</u>		
Dewatered?	<u>No</u>	<u>No</u>		<u>No</u>		<u>No</u>		

MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: 2662 Fruitvale Avenue PROJECT NO.: 97-037.03
 WELL NO.: MW-F6 TESTED BY: CC/AJ DATE: 12/22/00

Measuring Point Description: T.O.C. Static Water Level (ft.): 9.85
 Total Well Depth (ft.): 21.10 Sample Method: PERISTALTIC PUMP
 Water Level Measurement Method: SOLINST Time Sampled: 1445
 Purge Method: PERISTALTIC PUMP Sample Depth (ft.): ~15
 Time Start Purge: 1405 Field Filtering: YES FOR SOLUBLE IRON
 Time End Purge: 1443 Field Preservation: HCL FOR VOCs;
HNO₃ FOR TOTAL IRON
 Comments:

Well Volume Calculation (fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			Casing Volume (gal)
							(2)	4	6	
	<u>21.10</u>		<u>9.85</u>		<u>11.25</u>		0.16	0.64	1.44	<u>= 1.8</u>
										<u>3 VOLUMES = 5.4</u>
Time	<u>1405</u>		<u>1420</u>		<u>1433</u>		<u>1443</u>			
Volume Purged (gals)	<u>INITIAL</u>		<u>1.8</u>		<u>3.6</u>		<u>5.4</u>			
Cumulative Volume Purged (gals)	<u>INITIAL</u>		<u>1.8</u>		<u>3.6</u>		<u>5.4</u>			
Cumulative Number of Casing Volumes	<u>0</u>		<u>1</u>		<u>2</u>		<u>3</u>			
Purge Rate (gpm)	<u>0.12</u>		<u>0.12</u>		<u>0.14</u>		<u>0.18</u>			
Temperature (F°) or (C°)	<u>19.5</u>		<u>18.5</u>		<u>19.2</u>		<u>18.9</u>			
pH	<u>NA</u>		<u>NA</u>		<u>NA</u>		<u>NA</u>			
Specific Conductivity (mS/cm)	<u>0.491</u>		<u>0.505</u>		<u>0.466</u>		<u>0.486</u>			
Dissolved Oxygen (mg/L)	<u>8.40</u>		<u>8.66</u>		<u>8.74</u>		<u>8.82</u>			
Turbidity (NTU)	<u>6</u>		<u>9</u>		<u>10</u>		<u>10</u>			
ORP (mV)	<u>152</u>		<u>53</u>		<u>62</u>		<u>100</u>			
Odor	<u>NONE</u>		<u>NONE</u>		<u>NONE</u>		<u>NONE</u>			
Dewatered?	<u>NO</u>		<u>NO</u>		<u>NO</u>		<u>NO</u>			

MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: 2662 Fruitvale AvenuePROJECT NO.: 97-037.03WELL NO.: MW-F5TESTED BY: CC/AJDATE: 12/22/00Measuring Point Description: T.O.C.Static Water Level (ft.): 9.99Total Well Depth (ft.): 23.78Sample Method: BAILER (DISPOSABLE)Water Level Measurement Method: SOLINSTTime Sampled: 1555Purge Method: DISPOSABLE BAILER. DID NOT USE PERISTALTIC PUMP BECAUSE TUBING WOULD NOT GO DOWN WELL FAR ENOUGH.Sample Depth (ft.): ~20Time Start Purge: 1535Field Filtering: DID NOT FILTER IN FIELD (FOR SOLUBLE IRON) SINCE PUMP WAS NOT USED.Time End Purge: 1552Field Preservation: HCL FOR VOCs; HNO3 FOR TOTAL IRON

Comments: _____

Well Volume Calculation (fill in before purging)	Total Depth (ft)	Depth to Water (ft)	=	Water Column (ft)	x	Multiplier for Casing Diameter (in)			Casing Volume (gal)
						(2)	4	6	
	<u>23.78</u>	<u>9.99</u>	=	<u>13.79</u>		0.16	0.64	1.44	<u>2.2</u> <u>3 VOLUMES = 6.6</u>
Time	<u>1535</u>	<u>1540</u>	<u>1545</u>	<u>1552</u>					
Volume Purged (gals)	<u>INITIAL</u>	<u>2.2</u>	<u>4.4</u>	<u>6.6</u>					
Cumulative Volume Purged (gals)	<u>INITIAL</u>	<u>2.2</u>	<u>4.4</u>	<u>6.6</u>					
Cumulative Number of Casing Volumes	<u>0</u>	<u>1</u>	<u>2</u>	<u>3</u>					
Purge Rate (gpm)	<u>0.44</u>	<u>0.44</u>	<u>0.44</u>	<u>0.31</u>					
Temperature (F°) or (C°)	<u>17.4</u>	<u>18.9</u>	<u>19.0</u>	<u>17.9</u>					
pH	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>					
Specific Conductivity (mS/cm)	<u>0.492</u>	<u>0.482</u>	<u>0.486</u>	<u>0.490</u>					
Dissolved Oxygen (mg/L)	<u>8.75</u>	<u>8.70</u>	<u>8.73</u>	<u>9.69</u>					
Turbidity (NTU)	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>					
ORP (mV)	<u>153</u>	<u>161</u>	<u>40</u>	<u>95</u>					
Odor	<u>NONE</u>	<u>NONE</u>	<u>NONE</u>	<u>NONE</u>					
Dewatered?	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>					

MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: 2662 Fruitvale Avenue PROJECT NO.: 97-037.03
 WELL NO.: MW-13 TESTED BY: CC/AJ DATE: 12/22/00

Measuring Point Description: T.O.C. Static Water Level (ft.): 10.31
 Total Well Depth (ft.): 22.92 Sample Method: PERISTALTIC PUMP
 Water Level Measurement Method: SOLINST Time Sampled: 1650
 Purge Method: PERISTALTIC PUMP Sample Depth (ft.): ~15
 Time Start Purge: 1617 Field Filtering: YES FOR SOLUBLE IRON
 Time End Purge: 1648 Field Preservation: HCl FOR VOCs;
 Comments: HNO₃ FOR TOTAL IRON

Well Volume Calculation (fill in before purging)	Total Depth (ft) <u>22.92</u>	Depth to Water (ft) <u>10.31</u>	=	Water Column (ft) <u>12.61</u>	Multiplier for Casing Diameter (in)			Casing Volume (gal) <u>= 2.02</u> <u>3 VOLUMES = 6.1</u>
					x	(2)	4	
						0.16	0.64	1.44
Time	<u>1617</u>	<u>1630</u>	<u>1642</u>	<u>1648</u>				
Volume Purged (gals)	<u>INITIAL</u>	<u>2.4</u>	<u>4.4</u>	<u>6.4</u>				
Cumulative Volume Purged (gals)	<u>INITIAL</u>	<u>2.4</u>	<u>4.4</u>	<u>6.4</u>				
Cumulative Number of Casing Volumes	<u>0</u>	<u>1</u>	<u>2</u>	<u>3</u>				
Purge Rate (gpm)	<u>0.18</u>	<u>0.18</u>	<u>0.17</u>	<u>0.33</u>				
Temperature (F°) or (C°)	<u>18.9</u>	<u>18.2</u>	<u>18.5</u>	<u>19.0</u>				
pH	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>				
Specific Conductivity (mS/cm)	<u>0.716</u>	<u>0.722</u>	<u>0.801</u>	<u>0.718</u>				
Dissolved Oxygen (mg/L)	<u>8.81</u>	<u>9.25</u>	<u>8.50</u>	<u>8.22</u>				
Turbidity (NTU)	<u>4</u>	<u>0</u>	<u>1</u>	<u>2</u>				
ORP (mV)	<u>65</u>	<u>74</u>	<u>76</u>	<u>56</u>				
Odor	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>				
Dewatered?	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>				

MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: 2662 Fruitvale AvenuePROJECT NO.: 97-037.03WELL NO.: MW-E4 TESTED BY: CC/AJ DATE: 12/22/00Measuring Point Description: T.O.C.Static Water Level (ft.): 10.80Total Well Depth (ft.): 16.65Sample Method: PERISTALTIC PUMPWater Level Measurement Method: SOLINSTTime Sampled: 1725Purge Method: PERISTALTIC PUMPSample Depth (ft.): ~14Time Start Purge: 1705Field Filtering: YES FOR SOLUBLE IRONTime End Purge: 1723Field Preservation: HCl FOR VOCs

Comments: _____

Well Volume Calculation (fill in before purging)	Total Depth (ft) <u>16.65</u>	Depth to Water (ft) <u>10.80</u>	=	Water Column (ft) <u>5.85</u>	Multiplier for Casing Diameter (in)			Casing Volume (gal) <u>0.94</u> <u>3 VOLUMES ≈ 3 GAL</u>
					x	(2)	4	
					0.16	0.64	1.44	

Time	<u>1705</u>	<u>1712</u>	<u>1717</u>	<u>1723</u>				
Volume Purged (gals)	<u>INITIAL</u>	<u>1</u>	<u>2</u>	<u>3</u>				
Cumulative Volume Purged (gals)	<u>INITIAL</u>	<u>1</u>	<u>2</u>	<u>3</u>				
Cumulative Number of Casing Volumes	<u>0</u>	<u>1</u>	<u>2</u>	<u>3</u>				
Purge Rate (gpm)	<u>0.14</u>	<u>0.14</u>	<u>0.20</u>	<u>0.17</u>				
Temperature (F°) or (C°)	<u>17.8</u>	<u>18.7</u>	<u>17.7</u>	<u>19.5</u>				
pH	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>				
Specific Conductivity (mS/cm)	<u>0.605</u>	<u>0.630</u>	<u>0.600</u>	<u>0.602</u>				
Dissolved Oxygen (mg/L)	<u>9.36</u>	<u>8.43</u>	<u>8.75</u>	<u>7.95</u>				
Turbidity (NTU)	<u>0.0</u>	<u>1.0</u>	<u>1.0</u>	<u>1.0</u>				
ORP (mV)	<u>66</u>	<u>88</u>	<u>109</u>	<u>164</u>				
Odor	<u>NONE</u>	<u>NONE</u>	<u>NONE</u>	<u>NONE</u>				
Dewatered?	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>				

MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: 2662 Fruitvale Avenue

PROJECT NO.: 97-037.03

MEASURED BY: C. CLYDE / A. JENSEN

DATE: 12/22/00

APPENDIX B

**COPIES OF LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORM
FOR GROUNDWATER SAMPLES**

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

Date: October 16, 2000

Innovative Technical Solutions, Inc

2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Attn.: Mr. Jeff Hess

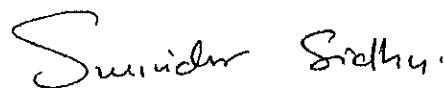
Project: 97-037.03
Fruitvale

Dear Jeff.

Attached is our report for your samples received on Friday October 6, 2000
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after November 20, 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: ssidhu@chromalab.com

Sincerely,



Surinder Sidhu

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

Gas/BTEX

Innovative Technical Solutions, Inc

Attn: Jeff Hess

Project #: 97-037.03

✉ 2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Phone: (925) 256-8898 Fax: (925) 256-8998

Project: Fruitvale

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-F4	Water	10/06/2000 14:00	1
MW-13	Water	10/06/2000 15:20	3

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc

Test Method: 8020
8015M

Attn.: Jeff Hess

Prep Method: 5030

Gas/BTEX

Sample ID:	MW-F4	Lab Sample ID:	2000-10-0147-001
Project:	97-037.03 Fruitvale	Received:	10/06/2000 17:15
Sampled:	10/06/2000 14:00	Extracted:	10/12/2000 10:59
Matrix:	Water	QC-Batch:	2000/10/12-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	3000	100	ug/L	2.00	10/12/2000 10:59	
Benzene	11	1.0	ug/L	2.00	10/12/2000 10:59	
Toluene	1.8	1.0	ug/L	2.00	10/12/2000 10:59	
Ethyl benzene	120	1.0	ug/L	2.00	10/12/2000 10:59	
Xylene(s)	69	1.0	ug/L	2.00	10/12/2000 10:59	
Surrogate(s)						
Trifluorotoluene	87.3	58-124	%	1.00	10/12/2000 10:59	
4-Bromofluorobenzene-FID	87.5	50-150	%	1.00	10/12/2000 10:59	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc

Test Method: 8020
8015M

Attn.: Jeff Hess

Prep Method: 5030

Gas/BTEX

Sample ID:	MW-13	Lab Sample ID:	2000-10-0147-003
Project:	97-037.03 Fruitvale	Received:	10/06/2000 17:15
Sampled:	10/06/2000 15:20	Extracted:	10/12/2000 01:27
Matrix:	Water	QC-Batch:	2000/10/11-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	4600	500	ug/L	10.00	10/12/2000 01:27	
Benzene	100	5.0	ug/L	10.00	10/12/2000 01:27	
Toluene	ND	5.0	ug/L	10.00	10/12/2000 01:27	
Ethyl benzene	190	5.0	ug/L	10.00	10/12/2000 01:27	
Xylene(s)	36	5.0	ug/L	10.00	10/12/2000 01:27	
Surrogate(s)						
Trifluorotoluene	83.8	58-124	%	1.00	10/12/2000 01:27	
4-Bromofluorobenzene-FID	88.7	50-150	%	1.00	10/12/2000 01:27	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 8015M
8020
Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank	Water	QC Batch # 2000/10/12-01.02
MB: 2000/10/12-01.02-001		Date Extracted: 10/12/2000 06:20

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/12/2000 06:20	
Benzene	ND	0.5	ug/L	10/12/2000 06:20	
Toluene	ND	0.5	ug/L	10/12/2000 06:20	
Ethyl benzene	ND	0.5	ug/L	10/12/2000 06:20	
Xylene(s)	ND	0.5	ug/L	10/12/2000 06:20	
Surrogate(s)					
Trifluorotoluene	78.2	58-124	%	10/12/2000 06:20	
4-Bromofluorobenzene-FID	80.0	50-150	%	10/12/2000 06:20	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc

Test Method: 8015M

8020

Attn.: Jeff Hess

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank	Water	QC Batch # 2000/10/11-01.05
MB: 2000/10/11-01.05-001		Date Extracted: 10/11/2000 16:19

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/11/2000 16:19	
Benzene	ND	0.5	ug/L	10/11/2000 16:19	
Toluene	ND	0.5	ug/L	10/11/2000 16:19	
Ethyl benzene	ND	0.5	ug/L	10/11/2000 16:19	
Xylene(s)	ND	0.5	ug/L	10/11/2000 16:19	
Surrogate(s)					
Trifluorotoluene	84.2	58-124	%	10/11/2000 16:19	
4-Bromofluorobenzene-FID	69.2	50-150	%	10/11/2000 16:19	

CHROMALAB, INC.

Submission #: 2000-10-0147

Environmental Services (SDB)

To: Innovative Technical Solutions, Inc

Test Method: 8015M
8020

Attn: Jeff Hess

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2000/10/12-01.02			
LCS:	2000/10/12-01.02-002	Extracted:	10/12/2000 06:51	Analyzed	10/12/2000 06:51		
LCSD:	2000/10/12-01.02-003	Extracted:	10/12/2000 07:22	Analyzed	10/12/2000 07:22		

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	475	483	500	500	95.0	96.6	1.7	75-125	20		
Benzene	99.5	97.6	100.0	100.0	99.5	97.6	1.9	77-123	20		
Toluene	95.3	94.2	100.0	100.0	95.3	94.2	1.2	78-122	20		
Ethyl benzene	91.1	90.9	100.0	100.0	91.1	90.9	0.2	70-130	20		
Xylene(s)	259	259	300	300	86.3	86.3	0.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	421	417	500	500	84.2	83.4		58-124			
4-Bromofluorobenzene-Fl	438	447	500	500	87.6	89.4		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc

Test Method: 8015M

8020

Attn: Jeff Hess

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD)		Water				QC Batch # 2000/10/11-01.05			
LCS:	2000/10/11-01.05-002	Extracted: 10/11/2000 16:51				Analyzed 10/11/2000 16:51			
LCSD:	2000/10/11-01.05-003	Extracted: 10/11/2000 17:23				Analyzed 10/11/2000 17:23			

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	471	469	500	500	94.2	93.8	0.4	75-125	20		
Benzene	92.3	88.0	100.0	100.0	92.3	88.0	4.8	77-123	20		
Toluene	91.3	85.5	100.0	100.0	91.3	85.5	6.6	78-122	20		
Ethyl benzene	94.2	88.6	100.0	100.0	94.2	88.6	6.1	70-130	20		
Xylene(s)	265	252	300	300	88.3	84.0	5.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	449	420	500	500	89.8	84.0		58-124			
4-Bromofluorobenzene-Fl	394	395	500	500	78.8	79.0		50-150			

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

Metals

Innovative Technical Solutions, Inc

Attn: Jeff Hess

Project #: 97-037.03

✉ 2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Phone: (925) 256-8898 Fax: (925) 256-8998

Project: Fruitvale

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-F4	Water	10/06/2000 14:00	1
MW-13	Water	10/06/2000 15:20	3

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Metals

Sample ID:	MW-F4	Lab Sample ID:	2000-10-0147-001
Project:	97-037.03 Fruitvale	Received:	10/06/2000 17:15
Sampled:	10/06/2000 14:00	Extracted:	10/13/2000 08:26
Matrix:	Water	QC-Batch:	2000/10/13-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	0.24	0.10	mg/L	1.00	10/13/2000 16:01	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc

Attn.: Jeff Hess

Test Method: 6010B

Prep Method: 3010A

Metals

Sample ID:	MW-13	Lab Sample ID:	2000-10-0147-003
Project:	97-037.03 Fruitvale	Received:	10/06/2000 17:15
Sampled:	10/06/2000 15:20	Extracted:	10/13/2000 08:26
Matrix:	Water	QC-Batch:	2000/10/13-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	4.3	0.10	mg/L	1.00	10/13/2000 16:18	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Batch QC Report
Metals

Method Blank	Water	QC Batch # 2000/10/13-03.15
MB: 2000/10/13-03.15-040		Date Extracted: 10/13/2000 08:26

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Iron	ND	0.10	mg/L	10/16/2000 07:48	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc
Attn: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Batch QC Report

Metals

Laboratory Control Spike (LCS/LCSD)		Water				QC Batch # 2000/10/13-03.15			
LCS: 2000/10/13-03.15-041		Extracted: 10/13/2000 08:26				Analyzed 10/13/2000 15:50			
LCSD: 2000/10/13-03.15-042		Extracted: 10/13/2000 08:26				Analyzed 10/13/2000 15:54			

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Iron	5.51	5.32	5.00	5.00	110.2	106.4	3.5	80-120	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

Soluble Metals

Innovative Technical Solutions, Inc

2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Attn: Jeff Hess

Phone: (925) 256-8898 Fax: (925) 256-8998

Project #: 97-037.03

Project: Fruitvale

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-F4 (FILTERED)	Water	10/06/2000 14:00	2
MW-13 (FILTERED)	Water	10/06/2000 15:20	4

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	MW-F4 (FILTERED)	Lab Sample ID:	2000-10-0147-002
Project:	97-037.03 Fruitvale	Received:	10/06/2000 17:15
Sampled:	10/06/2000 14:00	Extracted:	10/11/2000 12:57
Matrix:	Water	QC-Batch:	2000/10/11-05.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.10	mg/L	1.00	10/12/2000 08:48	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc

Attn.: Jeff Hess

Test Method: 6010B

Prep Method: 3005A

Soluble Metals

Sample ID:	MW-13 (FILTERED)	Lab Sample ID:	2000-10-0147-004
Project:	97-037.03 Fruitvale	Received:	10/06/2000 17:15
Sampled:	10/06/2000 15:20	Extracted:	10/11/2000 12:57
Matrix:	Water	QC-Batch:	2000/10/11-05.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	3.5	0.10	mg/L	1.00	10/12/2000 08:51	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc

Test Method: 6010B

Attn.: Jeff Hess

Prep Method: 3005A

Batch QC Report

Soluble Metals

Method Blank	Water	QC Batch # 2000/10/11-05.15
MB: 2000/10/11-05.15-034		Date Extracted: 10/11/2000 12:57

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Iron	ND	0.10	mg/L	10/11/2000 21:28	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0147

To: Innovative Technical Solutions, Inc

Test Method: 6010B

Attn: Jeff Hess

Prep Method: 3005A

Batch QC Report

Soluble Metals

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2000/10/11-05.15			
LCS:	2000/10/11-05.15-035	Extracted:	10/11/2000 12:57	Analyzed	10/11/2000 21:31		
LCSD:	2000/10/11-05.15-036	Extracted:	10/11/2000 12:57	Analyzed	10/11/2000 21:35		

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Iron	4.81	4.77	5.00	5.00	96.2	95.4	0.8	80-120	20		

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # L283-07

Date: 10/17/00

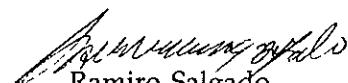
Chromalab
1220 Quarry Lane
Pleasanton

Project: 2000-10-0147
CA 94566-4756 PO#

Date Rec'd: 10/09/00
Date Started: 10/09/00
Date Completed: 10/09/00

Date Sampled: 10/06/00
Time:
Sampler:

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
MW-F4	L310013	1.0	300.0	Nitrate (NO ₃)	2.1	mg/L
		1.0	300.0	Sulfate	38	mg/L
MW-13	L310014	1.0	300.0	Nitrate (NO ₃)	ND	mg/L
		1.0	300.0	Sulfate	5.4	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# L283-07

QC REPORT

Chromalab
1220 Quarry Lane
Pleasanton

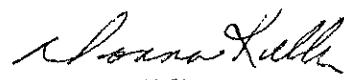
CA 94566-4756

Dates Analyzed 10/09/00

Analyte	Batch #	Method	MS % Recovery	MSD % Recovery	RPD	Blank
Nitrate (NO ₃)	I09820	300.0	102.6	106.4	3.6	ND
Sulfate	I09821	300.0	107.0	118.0	9.8	ND


Ramiro Salgado
Chemist

Certification # 1157


Donna Keller
Laboratory Director

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

To:
GeoAnalytical Labs
 1405 Kansas Avenue
 Modesto, CA 95351

L283-07

Project Manager: Surinder Sidhu
 Phone: Ext:
 Fax: (925) 484-1096
 Email: ssidhu@chromalab.com

Phone: (209) 572-0900
 Fax: (209) 572-0916
 Contact: Ramiro Salgado
 Phone: (209) 572-0900

CL Submission #: **2000-10-0147**Project #: **97-037.03**

CL PO #:

Project Name: Fruitvale

Client Sample ID	CL#	Sampled	Matrix	Method	Due
Analysis					
MW-F4	001	10/06/2000 14:00	Water	L310013	
Subcontract - Nitrate	(2)		300/352.1	10/16/2000 17:00	
Subcontract - Sulfate			300/375.4	10/16/2000 17:00	
MW-13	003	10/06/2000 15:20	Water	L310014	
Subcontract - Nitrate	(2)		300/352.1	10/16/2000 17:00	
Subcontract - Sulfate			300/375.4	10/16/2000 17:00	

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: Signature <i>Crouley</i> Time <i>10/09/00</i> Printed Name <i>Chromalab</i> Date Company	1. RELINQUISHED BY: Signature Time Printed Name Date Company	2. RELINQUISHED BY: Signature Time Printed Name Date Company	3. RELINQUISHED BY: Signature Time Printed Name Date Company
RECEIVED BY: Signature <i>Surinder Vargav</i> Time <i>10-9-00</i> Printed Name <i>Surinder Vargav</i> Date Company	1. RECEIVED BY: Signature Time Printed Name Date Company	2. RECEIVED BY: Signature Time Printed Name Date Company	3. RECEIVED BY: Signature Time Printed Name Date Company

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

2000-10-0147
1220 Quarry Lane • Pleasanton, California 94566-4756

(925) 484-1919 • Fax (925) 484-1096

Reference #: 5478T

Chain of Custody

DATE 10-6-00 PAGE 1 OF 1

PROJ MGR Jeff Hess
COMPANY ITS I
ADDRESS 2855 Mitchell Drive, #111
WALNUT CK, CA 94598

SAMPLERS (SIGNATURE) (PHONE NO.)

L. Watchea (FAX NO.)

SAMPLE ID. DATE TIME MATRIX PRESERV.

MW-F4 10-6-00 2:00 water X

MW-13 10-6-00 3:20 water X

ANALYSIS REPORT									
TPH (EPA 8015, 8020) <input checked="" type="checkbox"/> Gas w/ BTEX DM/TBE	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M) <input type="checkbox"/> Diesel <input type="checkbox"/> M.O. <input type="checkbox"/> Other	TPH (EPA 8015M) <input type="checkbox"/> Diesel <input type="checkbox"/> M.O. <input type="checkbox"/> Other	PURGEABLE HALOCARBONS (HVOCS) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270) <input type="checkbox"/> Oil & Grease <input type="checkbox"/> Petroil <input type="checkbox"/> Total <input type="checkbox"/> 1664	Nitrates <input type="checkbox"/> PESTICIDES (EPA 8080) <input type="checkbox"/> PCB's (EPA 8080)	Luft Metals: Cd, Cr, Pb, Ni, Zn CAM 17 METALS (EPA 6010/7470/7471)	<input type="checkbox"/> Sulfate Total Fe Soluble Fe NUMBER OF CONTAINERS
X	X	X	X	X	X	X	X	X	X

PROJECT INFORMATION

SAMPLE RECEIPT

PROJECT NAME: Franchise

PROJECT NUMBER: 97-037-03

P.O. #

TAT STANDARD 5-DAY

TOTAL NO. OF CONTAINERS

HEAD SPACE

TEMPERATURE

CONFORMS TO RECORD

SPECIAL INSTRUCTIONS/COMMENTS

Report: Routine Level 2 Level 3 Level 4 Electronic Report

RELINQUISHED BY

L. Watchea

(SIGNATURE)

This Watchea 1/15

(PRINTED NAME)

RELINQUISHED BY

(SIGNATURE)

(PRINTED NAME)

RELINQUISHED BY

(SIGNATURE)

(PRINTED NAME)

TAT STANDARD 5-DAY

24 48 72 OTHER

RECEIVED BY

RECEIVED BY

RECEIVED BY (LABORATORY)

(SIGNATURE)

(SIGNATURE)

(SIGNATURE)

(PRINTED NAME)

(PRINTED NAME)

(PRINTED NAME)

(COMPANY)

(COMPANY)

(COMPANY)

(COMPANY)

(COMPANY)

(LAB)

10/6/00 10/6/00 10/6/00

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

Date: November 21, 2000

Innovative Technical Solutions, Inc

2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Attn.: Mr. Jeff Hess

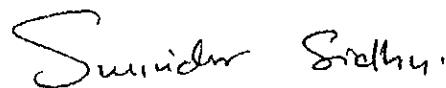
Project: 97-037.03
2662 Fruitvale

Dear Jeff.

Attached is our report for your samples received on Monday November 13, 2000
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after December 28, 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: ssidhu@chromalab.com

Sincerely,



Surinder Sidhu

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

Gas/BTEX and MTBE

Innovative Technical Solutions, Inc

✉ 2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Attn: Jeff Hess

Phone: (925) 256-8898 Fax: (925) 256-8998

Project #: 97-037.03

Project: 2662 Fruitvale

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-F4	Water	11/13/2000 11:30	1
MW-13	Water	11/13/2000 12:45	3

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc

Test Method: 8020
8015M

Attn.: Jeff Hess

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	MW-F4	Lab Sample ID:	2000-11-0249-001
Project:	97-037.03 2662 Fruitvale	Received:	11/13/2000 14:40
Sampled:	11/13/2000 11:30	Extracted:	11/17/2000 15:45
Matrix:	Water	QC-Batch:	2000/11/17-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	3900	250	ug/L	5.00	11/17/2000 15:45	
Benzene	39	2.5	ug/L	5.00	11/17/2000 15:45	
Toluene	16	2.5	ug/L	5.00	11/17/2000 15:45	
Ethyl benzene	840	2.5	ug/L	5.00	11/17/2000 15:45	
Xylene(s)	300	2.5	ug/L	5.00	11/17/2000 15:45	
MTBE	ND	25	ug/L	5.00	11/17/2000 15:45	
Surrogate(s)						
Trifluorotoluene	119.1	58-124	%	1.00	11/17/2000 15:45	
4-Bromofluorobenzene-FID	93.0	50-150	%	1.00	11/17/2000 15:45	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc

Test Method: 8020
8015M

Attn.: Jeff Hess

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	MW-13	Lab Sample ID:	2000-11-0249-003
Project:	97-037.03 2662 Fruitvale	Received:	11/13/2000 14:40
Sampled:	11/13/2000 12:45	Extracted:	11/17/2000 16:20
Matrix:	Water	QC-Batch:	2000/11/17-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	6000	500	ug/L	10.00	11/17/2000 16:20	
Benzene	220	5.0	ug/L	10.00	11/17/2000 16:20	
Toluene	35	5.0	ug/L	10.00	11/17/2000 16:20	
Ethyl benzene	470	5.0	ug/L	10.00	11/17/2000 16:20	
Xylene(s)	120	5.0	ug/L	10.00	11/17/2000 16:20	
MTBE	ND	50	ug/L	10.00	11/17/2000 16:20	
Surrogate(s)						
4-Bromofluorobenzene	97.9	50-150	%	1.00	11/17/2000 16:20	
4-Bromofluorobenzene-FID	85.3	50-150	%	1.00	11/17/2000 16:20	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc

Test Method: 8015M

8020

Attn.: Jeff Hess

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Method Blank	Water	QC Batch # 2000/11/17-01.01
MB: 2000/11/17-01.01-001		Date Extracted: 11/17/2000 06:48

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	11/17/2000 06:48	
Benzene	ND	0.5	ug/L	11/17/2000 06:48	
Toluene	ND	0.5	ug/L	11/17/2000 06:48	
Ethyl benzene	ND	0.5	ug/L	11/17/2000 06:48	
Xylene(s)	ND	0.5	ug/L	11/17/2000 06:48	
MTBE	ND	5.0	ug/L	11/17/2000 06:48	
Surrogate(s)					
Trifluorotoluene	104.2	58-124	%	11/17/2000 06:48	
4-Bromofluorobenzene-FID	82.4	50-150	%	11/17/2000 06:48	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc

Test Method: 8015M
8020

Attn: Jeff Hess

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)		Water				QC Batch # 2000/11/17-01.01					
LCS: 2000/11/17-01.01-002		Extracted: 11/17/2000 07:23					Analyzed 11/17/2000 07:23				
LCSD: 2000/11/17-01.01-003		Extracted: 11/17/2000 07:57					Analyzed 11/17/2000 07:57				

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	507	441	500	500	101.4	88.2	13.9	75-125	20		
Benzene	91.3	85.8	100.0	100.0	91.3	85.8	6.2	77-123	20		
Toluene	87.6	82.3	100.0	100.0	87.6	82.3	6.2	78-122	20		
Ethyl benzene	89.7	84.5	100.0	100.0	89.7	84.5	6.0	70-130	20		
Xylene(s)	266	250	300	300	88.7	83.3	6.3	75-125	20		
Surrogate(s)											
Trifluorotoluene	477	435	500	500	95.4	87.0		58-124			
4-Bromofluorobenzene-Fl	425	379	500	500	85.0	75.8		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

Metals

Innovative Technical Solutions, Inc

✉ 2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Attn: Jeff Hess

Phone: (925) 256-8898 Fax: (925) 256-8998

Project #: 97-037.03

Project: 2662 Fruitvale

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-F4	Water	11/13/2000 11:30	1
MW-13	Water	11/13/2000 12:45	3

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Metals

Sample ID:	MW-F4	Lab Sample ID:	2000-11-0249-001
Project:	97-037.03 2662 Fruitvale	Received:	11/13/2000 14:40
Sampled:	11/13/2000 11:30	Extracted:	11/14/2000 10:47
Matrix:	Water	QC-Batch:	2000/11/14-04.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	0.14	0.10	mg/L	1.00	11/14/2000 18:58	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc

Attn.: Jeff Hess

Test Method: 6010B

Prep Method: 3010A

Metals

Sample ID:	MW-13	Lab Sample ID:	2000-11-0249-003
Project:	97-037.03 2662 Fruitvale	Received:	11/13/2000 14:40
Sampled:	11/13/2000 12:45	Extracted:	11/14/2000 10:47
Matrix:	Water	QC-Batch:	2000/11/14-04.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	4.5	0.10	mg/L	1.00	11/14/2000 19:02	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Batch QC Report
Metals

Method Blank	Water	QC Batch # 2000/11/14-04.15
MB: 2000/11/14-04.15-006		Date Extracted: 11/14/2000 10:47

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Iron	ND	0.10	mg/L	11/14/2000 16:48	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc
Attn: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Batch QC Report

Metals

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2000/11/14-04.15			
LCS: 2000/11/14-04.15-007		Extracted: 11/14/2000 10:47				Analyzed 11/14/2000 16:53	
LCSD: 2000/11/14-04.15-008		Extracted: 11/14/2000 10:47				Analyzed 11/14/2000 16:57	

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Iron	4.90	4.98	5.00	5.00	98.0	99.6	1.6	80-120	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

Soluble Metals

Innovative Technical Solutions, Inc

✉ 2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Attn: Jeff Hess

Phone: (925) 256-8898 Fax: (925) 256-8998

Project #: 97-037.03

Project: 2662 Fruitvale

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-F4	Water	11/13/2000 11:30	2
MW-13	Water	11/13/2000 12:45	4

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	MW-F4	Lab Sample ID:	2000-11-0249-002
Project:	97-037.03 2662 Fruitvale	Received:	11/13/2000 14:40
Sampled:	11/13/2000 11:30	Extracted:	11/15/2000 07:22
Matrix:	Water	QC-Batch:	2000/11/15-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.10	mg/L	1.00	11/15/2000 09:05	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	MW-13	Lab Sample ID:	2000-11-0249-004
Project:	97-037.03 2662 Fruitvale	Received:	11/13/2000 14:40
Sampled:	11/13/2000 12:45	Extracted:	11/15/2000 07:22
Matrix:	Water	QC-Batch:	2000/11/15-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	1.4	0.10	mg/L	1.00	11/15/2000 09:10	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Batch QC Report
Soluble Metals

Method Blank	Water	QC Batch # 2000/11/15-03.15
MB: 2000/11/15-03.15-014		Date Extracted: 11/15/2000 07:22

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Iron	ND	0.10	mg/L	11/15/2000 08:52	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0249

To: Innovative Technical Solutions, Inc

Test Method: 6010B

Attn: Jeff Hess

Prep Method: 3005A

Batch QC Report

Soluble Metals

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2000/11/15-03.15			
LCS:	2000/11/15-03.15-015	Extracted:	11/15/2000 07:22	Analyzed	11/15/2000 08:56		
LCSD:	2000/11/15-03.15-016	Extracted:	11/15/2000 07:22	Analyzed	11/15/2000 09:01		

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Iron	4.90	4.92	5.00	5.00	98.0	98.4	0.4	80-120	20		

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # L319-16

Date: 11/17/00

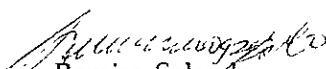
Chromalab
220 Quarry Lane
Pleasanton

Project: 2000-11-0249
CA 94566-4756 PO#

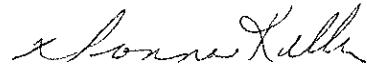
Date Rec'd: 11/14/00
Date Started: 11/14/00
Date Completed: 11/15/00

Date Sampled: 11/13/00
Time:
Sampler:

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
MW-F4	L311281	1.0	300.0	Nitrate (NO ₃)	ND	mg/L
		1.0	300.0	Sulfate	13	mg/L
MW-13	L311282	1.0	300.0	Nitrate (NO ₃)	1.1	mg/L
		1.0	300.0	Sulfate	1.7	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# L319-16

QC REPORT

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Dates Analyzed 11/14/00-11/15/00

Analyte	Batch #	Method	MS % Recovery	MSD % Recovery	RPD	Blank
Nitrate (NO ₃)	I11485	300.0	92.8	93.6	0.9	ND
Sulfate	I11486	300.0	99.4	101.2	1.8	ND

Ramiro Salgado
Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Donna Keller
Laboratory Director

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

To:
 GeoAnalytical Labs
 1405 Kansas Avenue
 Modesto, CA 95351

L319-16

Project Manager: Surinder Sidhu
 Phone: Ext: Phone: (209) 572-0900
 Fax: (925) 484-1096 Fax: (209) 572-0916
 Email: ssidhu@chromalab.com Contact: Ramiro Salgado
 Phone: (209) 572-0900

CL Submission #: **2000-11-0249**

Project #: 97-037.03

CL PO #:

Project Name: 2662 Fruitvale

Client Sample ID	CL#	Sampled	Matrix	Method	Due
Analysis					
MW-F4	001	11/13/2000 11:30	Water	L311281	
Subcontract - Nitrate			300/352.1	11/20/2000 17:00	
Subcontract - Sulfate		500 ml / p1	300/375.4	11/20/2000 17:00	
MW-13	003	11/13/2000 12:45	Water	L311282	
Subcontract - Nitrate			300/352.1	11/20/2000 17:00	
Subcontract - Sulfate			300/375.4	11/20/2000 17:00	

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: <i>Surinder Sidhu</i>	1.	RELINQUISHED BY: Signature _____ Time _____	2.	RELINQUISHED BY: Signature _____ Time _____	3.
Printed Name <i>Surinder Sidhu</i>	Date <i>11/14/00</i>	Printed Name _____	Date _____	Printed Name _____	Date _____
Company _____		Company _____		Company _____	
RECEIVED BY: <i>Cherry Manges</i>	1.	RECEIVED BY: Signature _____ Time _____	2.	RECEIVED BY: Signature _____ Time _____	3.
Printed Name <i>Cherry Manges</i>	Date <i>11/14</i>	Printed Name _____	Date _____	Printed Name _____	Date _____
Company _____		Company _____		Company _____	



Innovative Technical Solutions, Inc.

PURCHASE ORDER

P9703700009

**THIS NUMBER MUST APPEAR ON ALL
INVOICES, PACKING SLIPS, PACKAGES &
CORRESPONDENCE**

SELLER:
Chromalab, Inc
1220 Quarry Lane
Pleasanton, CA 94566

Attn: SURINDER SIDHU

BUYER:
Innovative Technical Solutions, Inc.
2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598

Project # 97-037

CONFIRMING ORDER CHANGE ORDER TAXABLE NON-TAXABLE
 Davis-Bacon Minimum Wage/Weekly Certified Payroll R-150 Equipment Inspection Report

**PLEASE ENTER OUR OR AND FURNISH GOODS OR SERVICE SPECIFIED BELOW IN ACCORDANCE
WITH TERMS OF THIS PURCHASE ORDER INCLUDING THOSE TERMS AND CONDITIONS ATTACHED HERETO.**

ITEM	QTY	U/M	DESCRIPTION/PRODUCT NUMBER	UNIT PRICE	TOTAL
1	2 EACH		TPHg AND BTEX BY EPA METHOD 8015/8020	60.00	120.00
2	2 EACH		TOTAL IRON	22.50	45.00
3	2 EACH		SOLUBLE IRON	22.50	45.00
4	2 EACH		NITRATES	21.00	42.00
5	2 EACH		SULFATES	21.00	42.00
6	2 EACH		FILTRATION FOR IRON, IF REQUESTED BY ITSI WHEN SAMPLES ARE DELIVERED TO CHROMOLAB	10.00	20.00

Total 314.00*

November 9, 2000 2:46 pm

SAMPLE CONTAINERS TO BE DELIVERED TO ITS1 BY FRIDAY 11/10/00 BEFORE 4:00 P.M. AT
2855 MITCHELL DRIVE, SUITE 111
WALNUT CREEK, CA 94598

ITS PERSONNEL WILL DELIVER SAMPLES TO CHROMOLAB ON MONDAY NOVEMBER 13, 2000.

Post-it® Fax Note	7671	Date	1/18/00	# of pages	2
To	Jerrydene Sipher	From	Diane Jones		
Co./Dept.	Worm Lab	Co.	ITST		
Phone #		Phone #			
Fax #	484-1096	Fax #			

BILLING INSTRUCTIONS: Send an original and one copy of invoice to the address below, marked "ATTN: ACCOUNTS PAYABLE"

ACCEPTANCE OF THIS ORDER IS EXPRESSLY
LIMITED TO THE TERMS AND CONDITIONS OF
THE ORDER.

2855 Mitchell Drive, Suite 111,
Walnut Creek, CA 94598

DATE: 1/19/00 (925) 256-8898
(925) 256-8998 fax
www.itsi.com

INNOVATIVE TECHNICAL SOLUTIONS, INC. (ITSI) TERMS AND CONDITIONS

ACCEPTANCE: This order expressly limits acceptance to the terms and conditions stated herein. Any purported acceptance containing additional or different terms shall not operate as acceptance of this order. Seller's shipment of materiel in response to this order shall constitute acceptance on the terms and conditions set out herein, notwithstanding any additional or different terms contained on any form submitted by Seller. Each order may be accepted by return mail confirming price, quantity and delivery dates. Delivery of material shall be made when stated and failure to attempt timely delivery, unless excused by ITSI entitles it to reject a late delivery. ITSI may cancel this order at any time and for any reason prior to delivery of the materiel by Seller. ITSI's liabilities, if any, to Seller for such cancellation shall be mutually agreed upon.

PRICE: This order shall not be filled at prices higher than specified herein. If no price is specified, the materials shall be billed at the price last quoted by Seller, or paid by Buyer to Seller, or at the prevailing market price, whichever is lower.

LIENS: Seller shall hold ITSI harmless from liens which are made or asserted by anyone against ITSI for materials supplied and delivered to the premises of ITSI or any other location designated by ITSI.

MODIFICATION: Modification, rescission or amendment of this order or the contract of sale resulting from its acceptance shall be ineffective unless approved in writing by an authorized representative of the Purchasing Department of ITSI.

INSPECTION: All materiel is subject to ITSI's acceptance within a reasonable time notwithstanding any prior payment. Materiel rejected will be held at Seller's risk and expense and may be returned and charged back to seller, including all transportation and handling cost. No substitutions or replacement shall be made unless so authorized by ITSI.

CHARGES: Seller shall box, crate or package as necessary for shipment without charge unless otherwise specified on this order.

WARRANTIES: Seller represents and warrants

- A. That no article supplied hereunder and packaging and labeling thereof is in violation of any Federal, state or other laws.
- B. That no article supplied hereunder is produced in violation of the Fair Labor Standards Act of 1938, as amended, and that the prices do not violate any provision of the Robinson-Patman Act.
- C. That the goods under this order do not infringe the claim of any United States Patent, but Seller does not warrant against infringement by reason of the use thereof in combination with other materiel.

D. That all goods furnished pursuant to this order are free from defects and are of merchantable quality and are in accordance with the Buyer's specifications. Seller agrees to defend, indemnify and hold harmless the Buyer against all liability costs, expenses, damages and judgments occasioned by or resulting from any breach of any of the warranties set out above.

E. That any equipment shown on the face of this order meets and complies with The Occupational Safety and Health Act regulations.

ASSIGNMENT: Seller shall not in any manner, delegate its duty of performance, a subcontract, license or assign its rights or obligations under this order without the prior written consent of the Buyer.

GOVERNING LAW: This order and any agreement of sale resulting from its acceptance shall be governed by and construed according to the law of the State of California.

PATENTS: If by reason of selling or using the article furnished hereunder ITSI or a customer is sued or threatened with suit for alleged infringement of patent claims covering the article furnished in the form furnished the Seller shall at its own expense, defend such suit and indemnify ITSI and the customers against all loss and expense incurred in connection with such suit or threatened suit including judgments, decrees, court costs, and attorney's fees.

In the event said article is in such suit held to constitute a patent infringement and its use is enjoined or limited in any manner Seller shall at its own expense and at the sole option of ITSI either (a) procure for ITSI or (b) replace same with a non-infringing article satisfactorily to ITSI or (c) modify such so it becomes non-infringing or (d) remove such and refund the purchase price and any other costs incurred by ITSI or its customers from the installation or removal thereof.

INDEMNITY: Seller agrees to defend indemnify and hold ITSI wholly harmless from any and all liability to all persons because of bodily injuries (including death) and/or damage to all property arising directly or indirectly from the performance of this order except where caused by the sole negligence of ITSI.

FORCE MAJEURE: ITSI may delay delivery and/or acceptance occasioned by causes beyond its control.

ITSI FURNISHED PROPERTY: All drawings, specifications materiel and other property (herein called "ITSI Data") disclosed by ITSI to Seller for use in connection with this order shall remain the property of ITSI. Because ITSI Data involves confidential information of ITSI seller shall use the same only for the purpose of fulfilling this order and shall not disclose, transfer or reproduce same to anyone without the prior written consent of ITSI. All such ITSI Data (if in tangible form) shall be returned to ITSI upon request or upon completion of this order.

INSTRUCTIONS

PACKING SLIPS AND PACKAGE MARKINGS: Show quantity, our purchase order number, your company name; our title and description of contents. On shipments of chemicals also show number of containers in each lot.

INVOICES: Must show our purchase order number, list of materiel or services delivered and net weights. Invoices improperly rendered may be returned for correction without loss of discount. Cash discount will be computed from date of invoice.

BILL OF LADING: Show our purchase order number, net weights and number of containers. If transportation is F.O.B. origin and transportation charges are for our account, ship at value which will produce lowest transportation cost, unless otherwise specified on the order.

**INNOVATIVE TECHNICAL SOLUTIONS, INC., PURCHASING DEPARTMENT
2855 MITCHELL DRIVE, Suite 111, WALNUT CREEK, CA., 94598
(925) 256-8898 x118
FAX (925) 256-8998**

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

Date: January 3, 2001

RECEIVED

JAN - 8 2001

Innovative Technical Solutions, Inc

2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Attn.: Mr. Jeff Hess

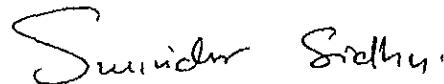
Project: 97-037.03
2662 Fruitvale Avenue

Dear Jeff,

Attached is our report for your samples received on Friday December 22, 2000
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after February 5, 2001
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: ssidhu@chromalab.com

Sincerely,



Surinder Sidhu

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096
CA DHS ELAP#1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

Gas/BTEX

Innovative Technical Solutions, Inc

Attn: Jeff Hess

Project #: 97-037.03

✉ 2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Phone: (925) 256-8898 Fax: (925) 256-8998

Project: 2662 Fruitvale Avenue

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-F2	Water	12/22/2000 12:10	1
MW-F4	Water	12/22/2000 17:25	2
MW-F5	Water	12/22/2000 15:55	3
MW-F6	Water	12/22/2000 14:45	4
MW-13	Water	12/22/2000 16:50	5

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919, * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8020
8015M

Attn.: Jeff Hess

Prep Method: 5030

Gas/BTEX

Sample ID:	MW-F2	Lab Sample ID:	2000-12-0450-001
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 12:10	Extracted:	12/29/2000 17:36
Matrix:	Water	QC-Batch:	2000/12/29-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/29/2000 17:36	
Benzene	ND	0.50	ug/L	1.00	12/29/2000 17:36	
Toluene	ND	0.50	ug/L	1.00	12/29/2000 17:36	
Ethyl benzene	ND	0.50	ug/L	1.00	12/29/2000 17:36	
Xylene(s)	ND	0.50	ug/L	1.00	12/29/2000 17:36	
Surrogate(s)						
Trifluorotoluene	86.7	58-124	%	1.00	12/29/2000 17:36	
4-Bromofluorobenzene-FID	74.3	50-150	%	1.00	12/29/2000 17:36	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8020
8015M

Attn.: Jeff Hess

Prep Method: 5030

Gas/BTEX

Sample ID:	MW-F4	Lab Sample ID:	2000-12-0450-002
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 17:25	Extracted:	01/02/2001 13:47
Matrix:	Water	QC-Batch:	2001/01/02-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	4700	250	ug/L	5.00	01/02/2001 13:47	
Benzene	54	2.5	ug/L	5.00	01/02/2001 13:47	
Toluene	9.6	2.5	ug/L	5.00	01/02/2001 13:47	
Ethyl benzene	850	2.5	ug/L	5.00	01/02/2001 13:47	
Xylene(s)	340	2.5	ug/L	5.00	01/02/2001 13:47	
Surrogate(s)						
Trifluorotoluene	97.9	58-124	%	1.00	01/02/2001 13:47	
4-Bromofluorobenzene-FID	83.3	50-150	%	1.00	01/02/2001 13:47	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8020
8015M

Attn.: Jeff Hess

Prep Method: 5030

Gas/BTEX

Sample ID:	MW-F5	Lab Sample ID:	2000-12-0450-003
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 15:55	Extracted:	12/28/2000 16:40
Matrix:	Water	QC-Batch:	2000/12/28-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/28/2000 16:40	
Benzene	ND	0.50	ug/L	1.00	12/28/2000 16:40	
Toluene	ND	0.50	ug/L	1.00	12/28/2000 16:40	
Ethyl benzene	ND	0.50	ug/L	1.00	12/28/2000 16:40	
Xylene(s)	ND	0.50	ug/L	1.00	12/28/2000 16:40	
<i>Surrogate(s)</i>						
Trifluorotoluene	91.8	58-124	%	1.00	12/28/2000 16:40	
4-Bromofluorobenzene-FID	90.4	50-150	%	1.00	12/28/2000 16:40	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8020
8015M

Attn.: Jeff Hess

Prep Method: 5030

Gas/BTEX

Sample ID:	MW-F6	Lab Sample ID:	2000-12-0450-004
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 14:45	Extracted:	12/29/2000 19:45
Matrix:	Water	QC-Batch:	2000/12/29-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/29/2000 19:45	
Benzene	ND	0.50	ug/L	1.00	12/29/2000 19:45	
Toluene	ND	0.50	ug/L	1.00	12/29/2000 19:45	
Ethyl benzene	ND	0.50	ug/L	1.00	12/29/2000 19:45	
Xylene(s)	ND	0.50	ug/L	1.00	12/29/2000 19:45	
Surrogate(s)						
Trifluorotoluene	80.5	58-124	%	1.00	12/29/2000 19:45	
4-Bromofluorobenzene-FID	73.6	50-150	%	1.00	12/29/2000 19:45	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8020
8015M

Attn.: Jeff Hess

Prep Method: 5030

Gas/BTEX

Sample ID:	MW-13	Lab Sample ID:	2000-12-0450-005
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 16:50	Extracted:	01/02/2001 14:20
Matrix:	Water	QC-Batch:	2001/01/02-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	9200	250	ug/L	5.00	01/02/2001 14:20	
Benzene	270	2.5	ug/L	5.00	01/02/2001 14:20	
Toluene	33	2.5	ug/L	5.00	01/02/2001 14:20	
Ethyl benzene	530	2.5	ug/L	5.00	01/02/2001 14:20	
Xylene(s)	120	2.5	ug/L	5.00	01/02/2001 14:20	
Surrogate(s)						
4-Bromofluorobenzene	102.9	50-150	%	1.00	01/02/2001 14:20	
4-Bromofluorobenzene-FID	95.5	50-150	%	1.00	01/02/2001 14:20	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8015M
8020

Attn.: Jeff Hess

Prep Method: 5030

Batch QC Report

Gas/BTEX

Method Blank	Water	QC Batch # 2000/12/28-01.01
MB: 2000/12/28-01.01-001		Date Extracted: 12/28/2000 09:04

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/28/2000 09:04	
Benzene	ND	0.5	ug/L	12/28/2000 09:04	
Toluene	ND	0.5	ug/L	12/28/2000 09:04	
Ethyl benzene	ND	0.5	ug/L	12/28/2000 09:04	
Xylene(s)	ND	0.5	ug/L	12/28/2000 09:04	
<i>Surrogate(s)</i>					
Trifluorotoluene	78.0	58-124	%	12/28/2000 09:04	
4-Bromofluorobenzene-FID	70.2	50-150	%	12/28/2000 09:04	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 8015M
8020
Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank	Water	QC Batch # 2000/12/29-01.05
MB: 2000/12/29-01.05-003		Date Extracted: 12/29/2000 06:06

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/29/2000 06:06	
Benzene	ND	0.5	ug/L	12/29/2000 06:06	
Toluene	ND	0.5	ug/L	12/29/2000 06:06	
Ethyl benzene	ND	0.5	ug/L	12/29/2000 06:06	
Xylene(s)	ND	0.5	ug/L	12/29/2000 06:06	
<i>Surrogate(s)</i>					
Trifluorotoluene	117.6	58-124	ug/L	12/29/2000 06:06	
4-Bromofluorobenzene-FID	78.6	50-150	ug/L	12/29/2000 06:06	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8015M

Attn.: Jeff Hess

8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank	Water	QC Batch # 2001/01/02-01.01
MB: 2001/01/02-01.01-008		Date Extracted: 01/02/2001 12:34

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	01/02/2001 12:34	
Benzene	ND	0.5	ug/L	01/02/2001 12:34	
Toluene	ND	0.5	ug/L	01/02/2001 12:34	
Ethyl benzene	ND	0.5	ug/L	01/02/2001 12:34	
Xylene(s)	ND	0.5	ug/L	01/02/2001 12:34	
Surrogate(s)					
Trifluorotoluene	102.8	58-124	%	01/02/2001 12:34	
4-Bromofluorobenzene-FID	96.4	50-150	%	01/02/2001 12:34	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8015M
8020

Attn: Jeff Hess

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/12/28-01.01

LCS:	2000/12/28-01.01-002	Extracted:	12/28/2000 06:51	Analyzed	12/28/2000 06:51
LCSD:	2000/12/28-01.01-003	Extracted:	12/28/2000 07:24	Analyzed	12/28/2000 07:24

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	538	542	500	500	107.6	108.4	0.7	75-125	20		
Benzene	99.2	91.8	100.0	100.0	99.2	91.8	7.7	77-123	20		
Toluene	88.2	81.5	100.0	100.0	88.2	81.5	7.9	78-122	20		
Ethyl benzene	93.5	85.8	100.0	100.0	93.5	85.8	8.6	70-130	20		
Xylene(s)	281	259	300	300	93.7	86.3	8.2	75-125	20		
Surrogate(s)											
Trifluorotoluene	463	430	500	500	92.6	86.0		58-124			
4-Bromofluorobenzene-F1	375	405	500	500	75.0	81.0		50-150			

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn: Jeff HessTest Method: 8020
Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD)		Water				QC Batch # 2000/12/29-01.05			
LCS:	2000/12/29-01.05-004	Extracted: 12/29/2000 06:39				Analyzed 12/29/2000 06:39			
LCSD:	2000/12/29-01.05-005	Extracted: 12/29/2000 07:11				Analyzed 12/29/2000 07:11			

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	110	104	100.0	100.0	110.0	104.0	5.6	77-123	20		
Toluene	105	99.3	100.0	100.0	105.0	99.3	5.6	78-122	20		
Ethyl benzene	102	96.3	100.0	100.0	102.0	96.3	5.7	70-130	20		
Xylene(s)	299	287	300	300	99.7	98.7	4.1	75-125	20		
Surrogate(s)											
Trifluorotoluene	570	515	500	500	114.0	103.0		58-124			

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Submission #: 2000-12-0450

Environmental Services (SDB)

To: Innovative Technical Solutions, Inc

Test Method: 8015M
8020

Attn: Jeff Hess

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD)		Water				QC Batch # 2000/12/29-01.05			
LCS:	2000/12/29-01.05-006	Extracted: 12/29/2000 07:43				Analyzed 12/29/2000 07:43			
LCSD:	2000/12/29-01.05-007	Extracted: 12/29/2000 08:15				Analyzed 12/29/2000 08:15			

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	478	495	500	500	95.6	99.0	3.5	75-125	20		
Surrogate(s)								50-150			
4-Bromofluorobenzene-Fl	397	410	500	500	79.4	82.0					

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8015M
8020

Attn: Jeff Hess

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2001/01/02-01.01					
LCS:	2001/01/02-01.01-009	Extracted: 01/02/2001 10:23			Analyzed	01/02/2001 10:23			
LCSD:	2001/01/02-01.01-010	Extracted: 01/02/2001 10:56			Analyzed	01/02/2001 10:56			

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	463	541	500	500	92.6	108.2	15.5	75-125	20		
Benzene	93.0	87.6	100.0	100.0	93.0	87.6	6.0	77-123	20		
Toluene	83.3	78.5	100.0	100.0	83.3	78.5	5.9	78-122	20		
Ethyl benzene	92.5	85.5	100.0	100.0	92.5	85.5	7.9	70-130	20		
Xylene(s)	270	253	300	300	90.0	84.3	6.5	75-125	20		
Surrogate(s)											
Trifluorotoluene	440	406	500	500	88.0	81.2		58-124			
4-Bromofluorobenzene-Fl	391	441	500	500	78.2	88.2		50-150			

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 8015M

8020

Attn.: Jeff Hess

Prep Method: 5030

Batch QC Report

Gas/BTEX

Matrix Spike (MS / MSD)

Water

QC Batch # 2000/12/28-01.01

Sample ID: MW-F5

Lab Sample ID: 2000-12-0450-003

MS: 2000/12/28-01.01-004 Extracted: 12/28/2000 17:12 Analyzed: 12/28/2000 17:12 Dilution: 1.0

MSD: 2000/12/28-01.01-005 Extracted: 12/28/2000 17:45 Analyzed: 12/28/2000 17:45 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	501	390	ND	500	500	100.2	78.0	24.9	65-135	20		rpd
Benzene	99.4	95.9	ND	100.0	100.0	99.4	95.9	3.6	65-135	20		
Toluene	88.2	85.1	ND	100.0	100.0	88.2	85.1	3.6	65-135	20		
Ethyl benzene	94.3	90.6	ND	100.0	100.0	94.3	90.6	4.0	65-135	20		
Xylene(s)	274	266	ND	300	300	91.3	88.7	2.9	65-135	20		
Surrogate(s)												
Trifluorotoluene	462	455		500	500	92.4	91.0		58-124			
4-Bromofluorobenzene-F	394	318		500	500	78.8	63.6		50-150			

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

Metals

Innovative Technical Solutions, Inc

Attn: Jeff Hess

Project #: 97-037.03

2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Phone: (925) 256-8898 Fax: (925) 256-8998

Project: 2662 Fruitvale Avenue

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-F2	Water	12/22/2000 12:10	1
MW-F4	Water	12/22/2000 17:25	2
MW-F5	Water	12/22/2000 15:55	3
MW-F6	Water	12/22/2000 14:45	4
MW-13	Water	12/22/2000 16:50	5

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Metals

Sample ID:	MW-F2	Lab Sample ID:	2000-12-0450-001
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 12:10	Extracted:	12/27/2000 10:32
Matrix:	Water	QC-Batch:	2000/12/27-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.10	mg/L	1.00	12/27/2000 16:52	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Metals

Sample ID:	MW-F4	Lab Sample ID:	2000-12-0450-002
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 17:25	Extracted:	12/27/2000 10:32
Matrix:	Water	QC-Batch:	2000/12/27-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	0.32	0.10	mg/L	1.00	12/27/2000 17:05	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Attn.: Jeff Hess

Test Method: 6010B

Prep Method: 3010A

Metals

Sample ID:	MW-F5	Lab Sample ID:	2000-12-0450-003
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 15:55	Extracted:	12/27/2000 10:32
Matrix:	Water	QC-Batch:	2000/12/27-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.10	mg/L	1.00	12/27/2000 17:10	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Metals

Sample ID:	MW-F6	Lab Sample ID:	2000-12-0450-004
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 14:45	Extracted:	12/27/2000 10:32
Matrix:	Water	QC-Batch:	2000/12/27-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	0.29	0.10	mg/L	1.00	12/27/2000 17:14	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Metals

Sample ID:	MW-13	Lab Sample ID:	2000-12-0450-005
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 16:50	Extracted:	12/27/2000 10:32
Matrix:	Water	QC-Batch:	2000/12/27-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	6.7	0.10	mg/L	1.00	12/27/2000 17:19	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Batch QC Report
Metals

Method Blank	Water	QC Batch # 2000/12/27-03.15
MB: 2000/12/27-03.15-005		Date Extracted: 12/27/2000 10:32

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Iron	ND	0.10	mg/L	12/27/2000 16:38	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Batch QC Report

Metals

Laboratory Control Spike (LCS/LCSD)		Water				QC Batch # 2000/12/27-03.15			
LCS: 2000/12/27-03.15-006		Extracted: 12/27/2000 10:32				Analyzed 12/27/2000 16:43			
LCSD: 2000/12/27-03.15-007		Extracted: 12/27/2000 10:32				Analyzed 12/27/2000 16:47			

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Iron	5.26	5.14	5.00	5.00	105.2	102.8	2.3	80-120	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3010A

Batch QC Report

Metals

Matrix Spike (MS / MSD)	Water	QC Batch # 2000/12/27-03.15		
Sample ID: MW-F2	Lab Sample ID: 2000-12-0450-001			
MS: 2000/12/27-03.15-009 Extracted: 12/27/2000 10:32 Analyzed: 12/27/2000 16:56 Dilution: 1.0				
MSD: 2000/12/27-03.15-010 Extracted: 12/27/2000 10:32 Analyzed: 12/27/2000 17:01 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
Iron	5.75	5.16	ND	5.00	5.00	115.0	103.2	10.8	75-125	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

Soluble Metals

Innovative Technical Solutions, Inc

Attn: Jeff Hess

Project #: 97-037.03

✉ 2855 Mitchell Drive, Suite 111
Walnut Creek, CA 94598-1627

Phone: (925) 256-8898 Fax: (925) 256-8998

Project: 2662 Fruitvale Avenue

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-F2	Water	12/22/2000 12:10	1
MW-F4	Water	12/22/2000 17:25	2
MW-F5	Water	12/22/2000 15:55	3
MW-F6	Water	12/22/2000 14:45	4
MW-13	Water	12/22/2000 16:50	5

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	MW-F2	Lab Sample ID:	2000-12-0450-001
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 12:10	Extracted:	12/26/2000 11:05
Matrix:	Water	QC-Batch:	2000/12/26-04.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.10	mg/L	1.00	12/26/2000 16:27	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	MW-F4	Lab Sample ID:	2000-12-0450-002
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 17:25	Extracted:	12/26/2000 11:05
Matrix:	Water	QC-Batch:	2000/12/26-04.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	0.17	0.10	mg/L	1.00	12/26/2000 16:31	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	MW-F5	Lab Sample ID:	2000-12-0450-003
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 15:55	Extracted:	12/26/2000 11:05
Matrix:	Water	QC-Batch:	2000/12/26-04.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.10	mg/L	1.00	12/26/2000 16:36	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	MW-F6	Lab Sample ID:	2000-12-0450-004
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 14:45	Extracted:	12/26/2000 11:05
Matrix:	Water	QC-Batch:	2000/12/26-04.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	0.15	0.10	mg/L	1.00	12/26/2000 16:40	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	MW-13	Lab Sample ID:	2000-12-0450-005
Project:	97-037.03 2662 Fruitvale Avenue	Received:	12/22/2000 18:35
Sampled:	12/22/2000 16:50	Extracted:	12/26/2000 11:05
Matrix:	Water	QC-Batch:	2000/12/26-04.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	6.7	0.10	mg/L	1.00	12/26/2000 16:45	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc
Attn.: Jeff Hess

Test Method: 6010B
Prep Method: 3005A

Batch QC Report
Soluble Metals

Method Blank	Water	QC Batch # 2000/12/26-04.15
MB: 2000/12/26-04.15-086		Date Extracted: 12/26/2000 11:05

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Iron	ND	0.10	mg/L	12/26/2000 15:09	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0450

To: Innovative Technical Solutions, Inc

Test Method: 6010B

Attn: Jeff Hess

Prep Method: 3005A

Batch QC Report

Soluble Metals

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2000/12/26-04.15			
LCS: 2000/12/26-04.15-087		Extracted: 12/26/2000 11:05		Analyzed 12/26/2000 15:14			
LCSD: 2000/12/26-04.15-088		Extracted: 12/26/2000 11:05		Analyzed 12/26/2000 15:18			

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Iron	5.08	5.06	5.00	5.00	101.6	101.2	0.4	80-120	20		

GeoAnalytical Laboratories, Inc.

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

Report# L361-04

QC REPORT

Chromalab
1220 Quarry Lane
Pleasanton

CA 94566-4756

Dates Analyzed 12/27/00-12/28/00

Analyte	Batch #	Method	% Recovery	Duplicate %	RPD	Blank
Nitrate (NO ₃)	I13126	300.0	94.7	95.0	0.4	ND
Sulfate	I12128	300.0	100.0	98.0	2.0	ND

Ramiro Salgado
Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # L361-04

Date: 12/28/00

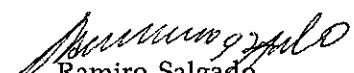
Chromalab
1220 Quarry Lane
Pleasanton

Project: 2000-12-0450
CA 94566-4756 PO#

Date Rec'd: 12/26/00
Date Started: 12/27/00
Date Completed: 12/28/00

Date Sampled: 12/22/00
Time:
Sampler:

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
MW-F2	L312846	1.0	300.0	Nitrate (NO ₃)	ND	mg/L
		1.0	300.0	Sulfate	9.9	mg/L
MW-F4	L312847	1.0	300.0	Nitrate (NO ₃)	ND	mg/L
		1.0	300.0	Sulfate	11	mg/L
MW-F5	L312848	1.0	300.0	Nitrate (NO ₃)	23	mg/L
		1.0	300.0	Sulfate	56	mg/L
MW-F6	L312849	1.0	300.0	Nitrate (NO ₃)	1.1	mg/L
		1.0	300.0	Sulfate	61	mg/L
MW-13	L312850	1.0	300.0	Nitrate (NO ₃)	1.0	mg/L
		1.0	300.0	Sulfate	ND	mg/L


Ramiro Salgado
Chemist

Certification # 1157


Donna Keller
Laboratory Director

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

To:
GeoAnalytical Labs
 1405 Kansas Avenue
 Modesto, CA 95351

Project Manager: Surinder Sidhu
 Phone: Ext:
 Fax: (925) 484-1096
 Email: ssidhu@chromalab.com

Phone: (209) 572-0900
 Fax: (209) 572-0916
 Contact: Ramiro Salgado
 Phone: (209) 572-0900

CL Submission #: **2000-12-0450**Project #: **97-037.03**

CL PO #: Project Name: 2662 Fruitvale Avenue

Client Sample ID	CL#	Sampled	Matrix	Method	Due
Analysis					
MW-F2 (2)	001	12/22/2000 12:10	Water	L312846	
Subcontract - Nitrate			300/352.1	01/02/2001 17:00	
Subcontract - Sulfate			300/375.4	01/02/2001 17:00	
MW-F4 (2)	002	12/22/2000 17:25	Water	L312847	
Subcontract - Nitrate			300/352.1	01/02/2001 17:00	
Subcontract - Sulfate			300/375.4	01/02/2001 17:00	
MW-F5 (2)	003	12/22/2000 15:55	Water	L312848	
Subcontract - Nitrate			300/352.1	01/02/2001 17:00	
Subcontract - Sulfate			300/375.4	01/02/2001 17:00	
MW-F6 (2)	004	12/22/2000 14:45	Water	L312849	
Subcontract - Nitrate			300/352.1	01/02/2001 17:00	
Subcontract - Sulfate			300/375.4	01/02/2001 17:00	
MW-13 (2)	005	12/22/2000 16:50	Water	L312850	
Subcontract - Nitrate			300/352.1	01/02/2001 17:00	
Subcontract - Sulfate			300/375.4	01/02/2001 17:00	

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY:	1.	RELINQUISHED BY:	2.	RELINQUISHED BY:	3.
<i>Guy Crowley</i>					
Signature	Time	Signature	Time	Signature	Time
<i>Guy Crowley</i>	12/26/00				
Printed Name	Date	Printed Name	Date	Printed Name	Date
ChromaLab					
Company		Company		Company	

RECEIVED BY:	1.	RECEIVED BY:	2.	RECEIVED BY:	3.
<i>Guy M</i>	11:30				
Signature	Time	Signature	Time	Signature	Time
<i>Guy M</i>	12/26/00				
Printed Name	Date	Printed Name	Date	Printed Name	Date
GD					
Company		Company		Company	

L361-04

CHROMALAB, INC.

Environmental Service (SDB)

Sample Receipt Checklist

Client Name: ITSI Date Time Received: 12/22/00 @ 1835
Reference/Subm #: 56574/0000-12-04SD Received by: Denise Harrington

Checklist completed by: Denise Harrington Signature 12/22/00 Date Reviewed By: _____ Initial/Date

Matrix: Soil Water Other Carrier name: Client - C/L - art

- Shipping container cooler in good condition? Yes No Not Present _____
Custody seals intact on shipping container/cooler? Yes No Present _____
Custody seals intact on sample bottles? Yes No Present _____
Chain of custody present? Yes No _____
Chain of custody signed when relinquished and received? Yes No _____
Chain of custody agrees with sample labels? Yes No _____
Samples in proper container/bottle? Yes No _____
Sample containers intact? Yes No _____
Sufficient sample volume for indicated test? Yes No _____
All samples received within holding time? Yes No _____
Container/Temp Blank temperature in compliance? Temp: 5.7 °C Yes No _____
Water - VOA vials have zero headspace? No VOA vials submitted Yes No _____
Water - pH acceptable upon receipt? Yes No Checked by VOA chemist

pH adjusted- Preservative used:
 HNO₃ HCl H₂SO₄ NaOH ZnOAc Lot#(s) _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

=====

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: ① All "Soluble Fe" portions field-filtered, with the exception of MW-F5 which was filtered upon receipt @ lab;
② all metals portions pH checked & adjusted in lab
(due to a little confusion in field);
③ Split made for NO₃- preserved w/H₂SO₄ - for all samples - DSH 12/22/00