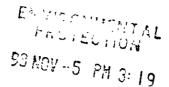
CONNER • BAK LLP

Tommy A. Conner J. Timothy Bak *

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email-conbak@sirius.com

October 26, 1998

State Water Resources Control Board P. O. Box 944212 Sacramento, California 94244-2120

Re: Third Quarter 1998 Groundwater Monitoring Report

New Genico Facility 3927 East 14th Street Oakland, California

Dear Sir or Madam:

Enclosed is the *Third Quarter 1998 Groundwater Monitoring Report* prepared for Ruben Hausauer's 3927 East 14th Street, Oakland, California site. This report documents the results of the groundwater monitoring performed at the site. Groundwater monitoring was performed on September 24, 1998 by Kleinfelder, Inc. personnel. This report was prepared by Kleinfelder at the request of Ruben Hausauer.

If you have any questions or comments, please call either Kleinfelder, Inc. at (408) 436-1155, or me at (415) 621-3939. Than you for your time and attention.

Very truly yours,

Tommy A. Conner

TAC:syr/Enclosure

cc: Regional Water Quality Control Board (w/encl)

ATTN: Fuel Leaks

2101 Webster Street, Suite 500 Oakland, CA 94612

Barney Chan (w/encl)
Alameda County Health
Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 95402

Gary Rogers. Ph.D (w/encl) Aquatic & Environmental Applications 38053 Davy Court Fremont, CA 94536

THIRD QUARTER 1998
GROUNDWATER MONITORING
NEW GENICO FACILITY
3927 EAST 14TH STREET
OAKLAND, CALIFORNIA

For: Conner-Bak, LLP

444 De Haro Street, Suite 121 San Francisco, California 94107

Attention: Mr. Tommy A. Conner

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October 22, 1998



October 22, 1998 File No. 12-3047-60

Mr. Tommy A. Conner Conner-Bak, LLP 444 De Haro Street, Suite 121 San Francisco, California 94107

SUBJECT: Third Quarter 1998 Groundwater Monitoring Report, New Genico Facility, 3927 East 14th Street, Oakland, California

Dear Mr. Conner:

Kleinfelder, Inc., (Kleinfelder) is pleased to provide you with the Third Quarter 1998 Groundwater Monitoring Report for the New Genico facility (New Genico) located at 3927 East 14th Street, Oakland, California (site; Plate 1). Note that 14th Street has been renamed "International Boulevard." However, for consistency with previous reports, we will continue to refer to the site as 14th Street. This report discusses field procedures, observations, and results of the third quarter 1998 groundwater monitoring event. Work was conducted in accordance with Kleinfelder's proposal dated June 18, 1998.

Kleinfelder performed groundwater monitoring and sampling on June 30, 1998, collecting groundwater samples from four groundwater monitoring wells at the site (HMW-1 through HMW-4). Monitoring well locations are shown on Plate 2.

BRIEF BACKGROUND

A release from an underground storage tank (UST) previously located on-site resulted in impacts to soil and groundwater. The UST was removed previously, along with some of the impacted soils. In accordance with Alameda County Health Care Services Agency (ACHCS) and California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), requirements, monitoring activities have been performed since August 1996 and are continuing at the site. A release from USTs formerly located across the street at the Motor Partners facility has also impacted soil and groundwater, and it appears that there is some commingling of plumes.

All of the wells are completed in the first continuous water-bearing zone encountered beneath the site. Wells HMW-1 through HMW-3 are constructed with 2-inch diameter polyvinyl chloride

(PVC) casing. HMW-4 was a "pre-constructed" well using 0.6-inch inner diameter PVC casing that was installed using direct push technology on November 18, 1997.

FIELD WORK

Kleinfelder performed the monitoring concurrently with Motor Partners' monitoring event on September 24, 1998. Kleinfelder measured depths to water (Table 1) and collected groundwater samples on September 24, 1998, from the four monitoring wells in accordance with the protocol presented in Appendix A, with the exception that measurements of "redox" potential (reduction/oxidation potential) and dissolved oxygen were made immediately prior to sampling.

Prior to purging the wells, Kleinfelder remeasured water levels using an electronic measuring device, and in three of the four wells, a translucent bailer was used to monitor for the presence of floating product or a sheen. Kleinfelder noted a sheen on the groundwater in HMW-1 and HMW-2; but no measurable thickness of floating product was noted. Neither a sheen nor floating product were observed in monitoring well HMW-3. Due to the small diameter of HMW-4, it was not possible to insert a bailer and monitor for a sheen or floating product in this manner. Due to its small diameter, well HMW-4 had to be purged with a peristaltic pump. The other wells were purged with a bailer.

Purging was performed until a minimum of three casing volumes of water were removed from each well. Purge logs and field observation sheets are included in Appendix B.

LABORATORY ANALYSES

Groundwater samples collected during the third quarter 1998 were analyzed for total petroleum hydrocarbons (TPH) quantified as diesel (TPHd), TPH as motor oil (TPHmo), and TPH as gasoline (TPHg) by modified United States Environmental Protection Agency (EPA) Method 8015; and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tert-butyl ether (MtBE) by EPA Method 8020. A trip blank was analyzed for TPHg, BTEX, and MtBE. The four samples were also analyzed by the laboratory for the bioremediation indicator parameters that were specifically requested by ACHCS. These analyses include:

- ferrous iron;
- nitrate; and
- sulfate.

Samples were collected in laboratory supplied containers. The groundwater samples were submitted to Entech Analytical Labs, Inc of Sunnyvale, California, for chemical analysis. Entech is a laboratory certified by the State of California to perform the above-mentioned analyses.

RESULTS

Groundwater Gradient

Table 1 presents the water level data for September 1998 for the New Genico facility. Depth-to-water data, as measured and provided by Rogers Environmental Services on September 24, 1998, is presented on Table 2. Plate 2 presents the groundwater piezometric contours for September 24, 1998, using the data collected by Kleinfelder.

As illustrated in Plate 2, the groundwater flow direction beneath the site was southerly on September 24, 1998. The magnitude of the hydraulic gradient was approximately 0.012 foot per foot. This flow direction and hydraulic gradient are generally consistent with previous findings. Groundwater levels declined an average of 1.9 feet since last quarter in the site's four groundwater monitoring wells.

Floating product

A slight sheen was observed in HMW-1 and HMW-2 this quarter, but there was no measurable quantity of floating product. Neither a sheen nor floating product were observed in any of the other site wells. Historic data with respect to the presence/absence of floating product or a sheen was not available at the time of preparation of this report.

Groundwater Analyses

This quarter's groundwater chemistry data for the site are presented in Table 3. Historic data, also presented on Table 3, were obtained from Groundworks Environmental, Inc.'s First Quarter 1998 Groundwater Monitoring Report (April 10, 1998), ATC Associates, Inc.'s Fourth Quarter 1997 Groundwater Monitoring Report, 3927 East 14th Street, Oakland, California (January 8, 1998), and Artesian Environmental's Groundwater Sampling Point Installation and Sampling Report (January 30, 1998).

Laboratory reports from Entech are included in Appendix C. The values of the groundwater parameters measured prior to sampling (pH, temperature and specific conductivity) are presented on Table 4.

The following summarizes the September 1998 analytical results for the 3927 E. 14th Street facility.

- TPHd was not reported in any of the wells this quarter.
- TPHmo was reported in well HMW-1, its concentration increasing slightly from last quarter
- TPHg concentrations decreased in wells HMW-1, HMW-2 and HMW-4. TPHg was reported in low concentrations in HMW-3 after two consecutive quarters of reported non-detects.

- Benzene concentrations decreased in wells HMW-1, HMW-2 and HMW-4. Benzene remained non-detect (ND) in HMW-3 for the third consecutive quarter. Benzene concentrations are in excess of its Maximum Contaminent Level (MCL) of 1 microgram per liter (μg/L) in HMW-1, HMW-2 and HMW-4.
- Toluene, ethylbenzene and total xylenes concentrations decreased in wells HMW-1, HMW-2 and HMW-4. Toluene and ethylbenzene remained ND in HMW-3 for the third consecutive quarter. Total Xylenes were reported at low levels in HMW-3 for the first time since August 1996. All three constituents that were reported were below their respective MCLs.
- Reported MtBE concentrations using EPA Method 8020 in HMW-4 were consistent
 with previous findings. MtBE was reported as ND in HMW-2 and HMW-3. MtBE was
 reported (using EPA Method 8020) in HMW-1 at 430 μg/L. "Confirmation" analysis
 by GCMS (EPA method 8260) was performed for HMW-1 and was reported ND,
 indicating the EPA 8020 result was likely a "false positive."

Historically, when site samples reported to contain MtBE were re-analyzed using GCMS, the result was ND. Reports of detected MtBE using USEPA Method 8020 analyses are therefore suspected to have been "false positives."

Bioremediation Indicator Parameters

Selected bioremediation indicator parameters were either measured in the field (dissolved oxygen and redox potential) or analyzed by the analytical laboratory (nitrate, sulfate, and ferrous iron). Results for upgradient wells and wells located proximate to the former UST location were compared to wells located downgradient of the former UST location to see if any general trends were discernible.

Dissolved oxygen concentrations were anomalously high this quarter, likely due to the fact that the readings were not made in the well. No discernible pattern with respect to the dissolved oxygen contents of groundwater from the various site wells was noted. Historically, the environment within the plume has not exhibited elevated oxygen concentrations. It appears, however, that bioremediation is occurring proximate to, and downgradient of, the former UST location. When bioremediation occurs in relatively anaerobic environments, such as this, the following trends may be observed across the dissolved contaminant plume:

- A decrease in nitrate concentrations;
- A decrease in sulfate concentrations:
- An increase in ferrous iron; and
- Redox potentials become increasingly negative.

The following presents our findings with respect to the selected bioremediation indicator parameters during this quarter

- Nitrate concentrations were highest in upgradient well HMW-3, low in HMW-1 which
 is located just downgradient of the former UST area, and ND in HMW-2 and HMW-4,
 located further downgradient of the former UST location, suggesting the occurrence of
 anaerobic bioremediation;
- Sulfate concentrations were highest in upgradient well HMW-3, low in HMW-4 which
 is furthest downgradient of the former UST area, and ND in HMW-1 and HMW-2,
 located just downgradient of the former UST location, suggestive of the occurrence of
 anaerobic bioremediation.
- · Ferrous iron was reported ND for all four wells; and
- The redox potential in well HMW-2 was positive. Redox potentials in the remaining wells were negative, suggestive of the occurrence of anaerobic bioremediation;

Quality Control Results

A trip blank was stored with the samples collected and submitted to the laboratory for analysis. The trip blank was analyzed for TPHg, BTEX and MtBE. None of these constituents were detected in the trip blank.

Laboratory quality control (QC) data were evaluated to assess the acceptability of the analytical results. QC results are included with the Certified Analytical Reports (CARs) in Appendix C. Laboratory QC consisted of checking adherence to holding times and evaluating method blanks and blank spikes (BS). All analyses were performed within the required holding times. No compounds were detected in any of the method blanks. BS recoveries were within the laboratory acceptance limits.

The laboratory QC results indicate the data are of acceptable quality.

LIMITATIONS

Kleinfelder prepared this report in accordance with generally accepted standards of care which exist in Northern California at this time. Conclusions are based on field observations made by Kleinfelder personnel and quantitative chemical analysis of four groundwater samples and a trip blank provided by Entech laboratory.

It should be recognized that definition and evaluation of geologic and environmental conditions is a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the present subsurface conditions. More extensive studies, including additional subsurface investigations, may be performed to reduce uncertainties. If the Client wishes to reduce the uncertainties of this investigation, Kleinfelder should be notified for additional consultation. No warranty, express or implied, is made.

If you have any questions about the enclosed report or any other aspect of the work, please contact Bill Theyskens at (408) 436-1155.

Sincerely,

KLEINFELDER, INC.

Joanne Winterberg for Neal Siler, R.E.A.

Environmental Group Manager

Attachments

William G. Theyskens, C.E.G., C.HG.

Project Manager /

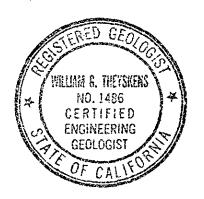


Table 1 Groundwater Elevations (1) New Genico Facility 1397 East 14th Street Oakland, California

		Casing	Depth to	Groundwater	Floating	Corrected
		Elevation	Groundwater	Elevation	Product (2)	Elevation (3)
Well	Date	(feet, MSL)	(feet)	(feet, MSL)	(feet)	(feet, MSL)
HMW-1	8/22/96	31.25	8.01	23.24		23 24
	2/25/97		5.95	25.30		25.30
	5/28/97		7.65	23.60		23.60
	9/2/97		8.56	22.69		22.69
	11/26/97		7.50	23.75		23 75
	2/9/98		3.35	27.90		27.90
	3/17/98		5.29	25.96	0.01	25.97
	6/30/98		6.63	24.62	0.00	24.62
	9/24/98		8.22	23.03	0.00	23 03
HMW-2	8/22/96	29.43	8.71	20.72		20.72
	2/25/97		6.00	23.43		23.43
	5/28/97		7.65	21.78		21.78
	9/2/97		8.59	20.84		20.84
	11/26/97		6.82	22.61		22.61
	2/9/98		3.24	26.19		26.19
	3/17/98		4.44	24 99	0.00	24.99
	6/30/98		6.30	23.13	0.00	23.13
	9/24/98		8.20	21.23	0.00	21.23
HMW-3	8/22/96	31.48	8.10	23,38		23.38
	2/25/97		6.00	25.48		25.48
	5/28/97		7.74	23.74		23.74
	9/2/97		8.60	22 88		22 88
	11/26/97		7.50	23.98		23.98
	2/9/98		2.34	29.14		29.14
	3/17/98		5.23	26.25	0.00	26.25
	6/30/98		6.60	24.88	0.00	24.88
	9/24/98		8.32	23.16	0.00	23.16
HMW-4	11/26/97	28.80	7.42	21.38		21.38
	2/9/98		2.96	25.84		25 84
	3/17/98		5.72	23.08	0.00	23.08
	6/30/98		7.40	21.40	0.00	21.40
	9/24/98		9.80	19.00	0.00	19.00
						-

feet, MSL = feet, relative to Mean Sea Level

Corrected Elevation = Groundwater Elevation + (0.83 x Floating Product Thickness)

[&]quot;---" = not measured, or data not readily available

Data prior to 3/17/98 was obtained from reports prepared by ATC Associates Inc. (1/8/98) and Artesian Environmental (1/30/98), and a Field Report/Data Sheet (ATC, 2/9/98)

⁽²⁾ Data regarding the presence/absence of floating product prior to March 1998 was not available at the time of preparation of this report

⁽³⁾ Corrected elevation is equal to groundwater elevation plus the estimated specific gravity of the floating product (0.83) multiplied by the floating product thickness



Table 2
Groundwater Elevations (1)
Motor Partners Facility
1234 40th Avenue
Oakland, California

		Casing	Depth to	Groundwater	Floating	Corrected
		Elevation	Groundwater	Elevation	Product (2)	Elevation (3)
Well	Date	(feet, MSL)	(feet)	(feet, MSL)	(feet)_	(feet, MSL)
MW-1	11/26/97	31.44	7.98	23.46		23.46
	3/17/98		5.84	25.60		25.60
	6/30/98					
	9/24/98		8.74	22.70		22.70
MW-2	11/26/97	31.06	7.24	23.82		23.82
	3/17/98		5.05	26.01		26.01
	6/30/98		6.35	24.71		24.71
	9/24/98		7.94	23.12		23.12
MW-3	11/26/97	30.43	7.06	23.37		23.37
	3/17/98		5.11	25.32		25,32
	6/30/98		6.62	23.81		23.81
	9/24/98		8.13	22.30		22.30
MW-4	11/26/97	30.37	6.64	23.73		23.73
	3/17/98		4.52	25.85		25.85
	6/30/98		5.86	24.51		24.51
	9/24/98		7.23	23.14		23.14
MW-5	11/26/97	30.37				
	3/17/98		5.80	24.57		24.57
	6/30/98					
	9/24/98		8.76	22.39		22.39

feet, MSL = feet, relative to Mean Sea Level

[&]quot;----" = Not measured, or data not readily available

⁽¹⁾ Data prior to 3/17/98 was obtained from a report prepared by ATC Associates Inc. (1/8/98); 3/17/98 data was obtained from Gary Rogers of Aquatic & Environmental Applications.

⁽²⁾ Data regarding the presence/absence of floating product prior to March 1998 was not available at the time of preparation of this report

⁽³⁾ Corrected elevation is equal to groundwater elevation plus the estimated specific gravity of the floating product (0.83) multiplied by the floating product thickness

Corrected Elevation = Groundwater Elevation + (0.83 x Floating Product Thickness)

Table 3
Groundwater Analytical Results ¹
New Genico Facility
3927 E. 14th Street Oakland, California

Well I D. No	Sample Date	IPH as Diesel	TPH as motor oil (μg/L)	TPH as Gasoline (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (µg/L)	Methyl tert Butyl Ether (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Dissolved Oxygen (mg/L)	
HMW-1	8/22/96	ND	ND	7,400	1,200	170	530	490						
	2/25.97	2,000	ND	5,400	760	110	260	260	ND	••••				••••
	5/28/97	2,000	600	6,600	1,100	100	290	340	130		**		•	
	9/2/97	8,700	3,700	4,000	460	40	200	100	ND ²	2	12	4.20	0.24	-14.4
	11/26/97	4,700	3,000	7,500	1,000	120	270	320	ND ²	0.6	ND	< 0.01	2.0	+105
	3/17/98	ND	16,000	11,000	2,100	290	600	760	1,200	ND	0.8	0.16	0.8 3	-60.4
	6/30/98	ND	5,900	10,000	1,300	160	390	390	160	0.4	20	0.96	0.77	-46.70
	9/24/98	ND	6,600	7,100	890	89	230	180	430/ND ²	1	ND	ND	4 6	-17
HMW 2	8/22/96	7, 400 ⁴	2,100	6,300	170	57	370	120		2100	2100			
	2/25/97	90	ND	8,400	150	35	280	70	ND ²	ND	ND			
	5/28/97	130	200	6,000	170	35	170	67	150	200	200			
	9/2/97	4,502	ND ⁵	8,000	210	30	160	90	ND ²	ND	0.5	1.37	0.38	+25.2
	11/26/97	180	ND	1,600	41	7.5	40	10	31	ND	ND	0.03	2.5	+52
	3/17/98	ND	ND	8,600	200	96	410	120	330	ND	0.8	0.01	0.48	-50.28
	6/30/98	ND	ND	7,300	180	52	240	88	170	ND	ИD	10.0	0.43	-45.50
	9/24/98	ND	ND	2,900	32	1.5	38	16	ND	ND	ND	ND	7.1	+67
HMW-3	8/22/96	ND	ND	1,300	3	6	8	12		ND	ND			
	2/25/97	70	ND	150	ND	ND	ND	ND	ИD	ИD	ИD			
	5/28/97	ND	ND	80	ND	ND	0.60	ND	ND	ND	ND	••••		
	9/2/97	ND 5	ND 5	140	ND	ND	2.1	ND	ND	2	53	0.03	0.88	+98.6
	11/26/97	50	ND	70	0.6	0.8	0.8	ND	ND	3 5	50	0.01	1.4	+102
	3/17/98	ΝD	200	ND	ИD	ИD	ДΝ	ND	ND	1.1	43	ИD	0.63	91.90
	6/30/98	ND	ND	ND	ND	ND	ND	ND	ND	4.0	51	ND	0.25	95.70
	9/24/98	ND	ND	58	ND	ND	ND	0 76	ND	4.9	95	NĐ	3.7	-16
HMW-1	11/26/97	400	ND	1,600	4.2	3.1	1.7	5.9	ND	****		••••		
	3/17/98	ND	ND	1,300	20	1.4	6.8	3 0	19	ND	86	0.12	24 3	-26.67
	6/30/98	ND	ND	940	17	1.5	18	2	10	ND	18.0	ND	3.7	-21.7
	9/24/98	ND	ND	370	7 2	ND	0.75	1.3	11	ND	11	ND	6.6	-17



Table 3 Groundwater Analytical Results ¹ New Genico Facility 3927 E. 14th Street Oakland, California

Well D No	Sample Date	TPH as Diesel	TPH as motor oil (μg/L)	TPH as Gasoline (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	Methyl tert Butyl Ether (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Dissolved Oxygen (mg/L)	Redox Potential* (mV)
TRIP BLANK	3/17/98			ND	ND	ND	ND	ND	ND		••••			
	6/30/98			ND	ND	ND	ND	ND	ND					
	9 24/98		7777	ND	ND	ND	ND	ND	ND	••••				••••
MCI 6					1.0	150	700	1,750	35 ⁷					

NOTES

Well I D No EPH ND	HMW-1, HMW-2 and HMW-3 are New Genico wells MW-1, MW-2, and MW-3, respectively Total petroleum hydrocarbons Not detected above reporting limit
'"	Not analyzed
•	Measured in the field
1	Data prior to 3/17/98 was obtained from a report prepared by ATC Associates Inc. (1/8/98)
3	Positive result by initial USEPA Method 8020 analysis/confirmation performed by USEPA Method 8260 reports ND
7	Dissolved oxygen measured prior to purging
1	l abocatory reported concentration for diesel is estimated due to overlapping fuel patterns
5	Samples collected on 10/3/97
6	Maximum Contiminant Level
J	California Drinking Water Advisory Level





Table 3
Groundwater Analytical Results ¹
New Genico Facility
3927 E. 14th Street Oakland, California

Well I D No	Sample Date	ΓΡΗ as Diesel (μg/L)	TPH as motor oil (μg/L)	TPH as Gasoline (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	Methyl tert Butyl Ether (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Oxygen (mg/L)	
HMW 1	8/22/96	ИD	ND	7,400	1,200	170	530	490						
	2125/97	2,000	ND	5,400	760	110	260	260	ИD				••••	
	5/28/97	2 000	600	6,600	1,100	100	290	340	130	*****				
	9/2/97	8,700	3,700	4,000	460	40	200	100	ND ²	2	12	4.20	0.24	-14.4
	11/26/97	4 700	3,000	7,500	1,000	120	270	320	ND ²	0.6	ND	< 0.01	2.0	+105
	3/17/98	ND	16,000	11,000	2,100	290	600	760	1,200	ND	0.8	0.16	0.8^{3}	-60.4
	6/30/98	ND	5,900	10,000	1,300	160	390	390	160	0.4	2.0	0.96	0.77	-46.70
	9/24/98	ИD	6,600	7,100	890	89	230	180	430/ND ²	1	ND	ND	4.6	-17
HMW 2	8/22/96	7,4 00 ⁴	2,100	6,300	170	57	370	120	*****	2100	2100			
	2/25/97	90	ND	8,400	150	35	280	70	ND ²	ND	ИD	*****		
	5/28/97	130	200	6,000	170	35	170	67	150	200	200	*****		
	9/2/97	4,502	ND ⁵	8,000	210	30	160	90	ND 2	ND	0.5	1.37	0.38	+25.2
	[1/26/97	180	ND	1,600	41	7.5	40	10	31	ND	ND	0.03	2.5	+52
	3/17/98	ND	ND	8,600	200	96	410	120	330	ND	0.8	0.01	0 48 3	-50.28
	6/30/98	ND	ND	7,300	180	52	240	88	170	ND	ND	0.01	0.43	-45.50
	9/24/98	ND	ND	2,900	32	1.5	38	16	ND	ND	ND	ND	7 1	+67
HMW 3	8/22/96	ND	ND	1,300	3	6	8	12		ND	ND	****		*
	2/25/97	70	ND ND	150	ND	ND	ND	ND	ND	ND	ND		*****	
	5/28/97	ND	ND	80	ND	ND	0.60	ND	ND	ND	ND		*****	
	9/2/97	ND 5	ND ⁵	140	ND	ND	2.1	ND	ND	2	53	0.03	0.88	+98.6
	11/26/97	50	ND	70	0.6	0.8	0.8	ND	ND	3.5	50	0.01	1.4	+102
	3/17/98	ND	200	ND	ND	ND	ND	ND	ND	1.1	43	ND	0.63^{3}	91 90
	6/30/98	N D	ND	ND	ND	ND	ND	ND	ND	4.0	51	ND	0.25	95.70
	9/24/98	Ν D	ND	58	ND	ND	ND	0.76	ND	4.9	95	ND	3.7	-16
HMW-1	11/26/97	100	ND	1,600	4.2	3.1	1.7	5.9	ND				****	
	3/17/98	ND	ND	1,300	20	1.4	6.8	3.0	19	ND	8.6	0 12	2.43	-26.67
	6/30/98	ND	ND	940	17	1.5	18	2	10	ND	18.0	ND	3.7	21.7
	9.24/98	N D	ND	370	7.2	ND	0.75	1.3	11	ND	11	ND	6.6	-17



Table 3 Groundwater Analytical Results New Genico Facility 3927 E 14th Street Oakland, California

Well I D No	Sample Date	TPII as Diesel (µg/L.)	TPH as motor oil	TPH as Gasoline (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	Methyl tert Butyl Ether (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
TRIP BLANK	3/17/98		***	ND	, ND	ND	ND	ND	ИD					
	6/30/98			ND	ND	ND	ND	ND	ND	~				••
	9/24/98		-400	ND	ND	ND	ND	ND	ND	*				***-
MC1 ⁶					1.0	150	700	1,750	35 7					

NOTES

WeiLLD No =	HMW-1, HMW-2 and HMW-3 are New Genico wells MW-1, MW-2, and MW-3, respectively
TPH -	Total petroleum hydrocarb ons
ND	Not detected above reporting limit
****	Not analyzed
• -	Measured in the field
1	Data prior to 3/17/98 was obtained from a report prepared by ATC Associates Inc. (1/8/98)
2	Positive result by initial USEPA Method 8020 analysis/confirmation performed by USEPA Method 8260 reports ND
3	Dissolved oxygen measured prior to purging
í	I aboratory reported concentration for diesel is estimated due to overlapping fuel patterns
5	Samples collected on 10/3/97
6	Maximum Contaminant Lovel
1	Califorma Dimking Water Advisory Level



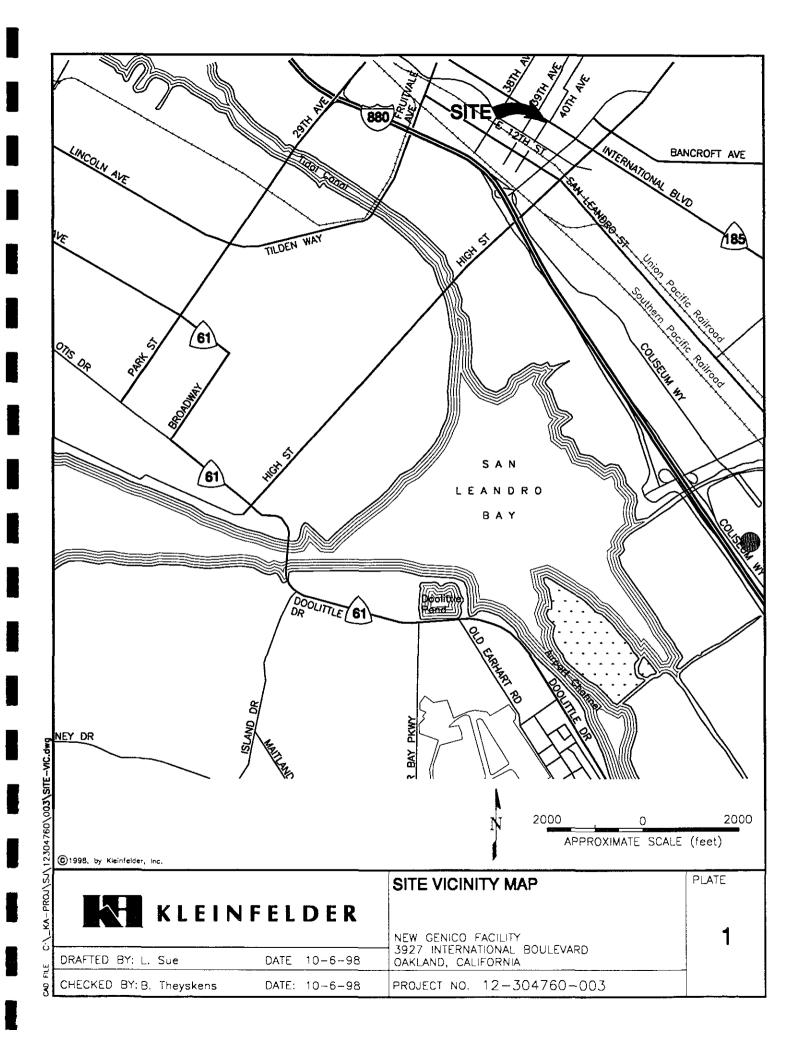


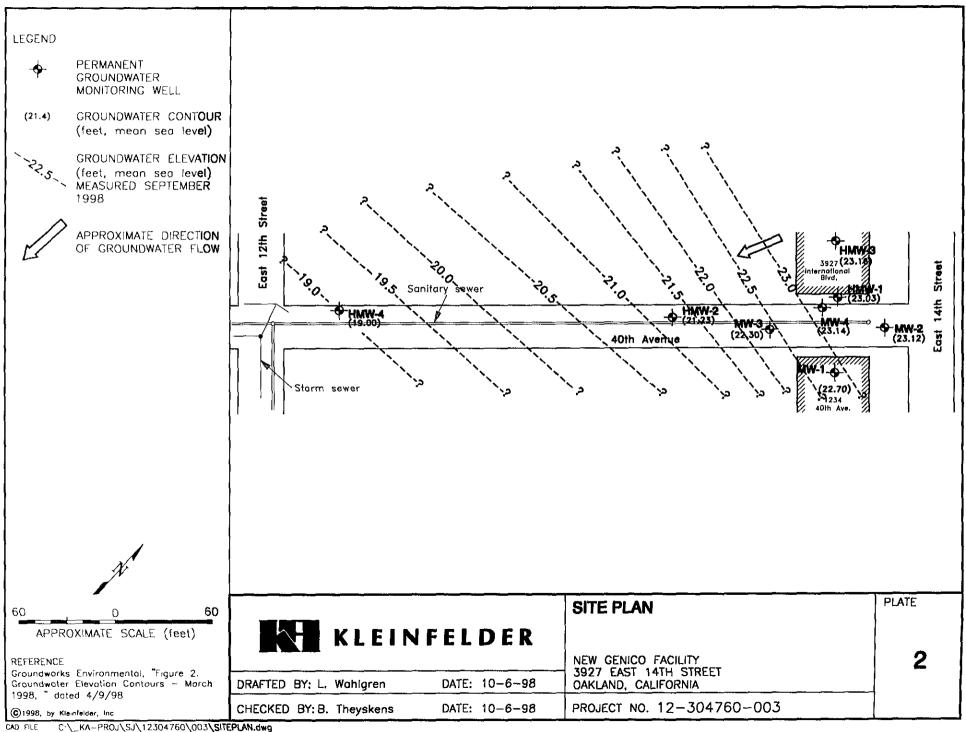
Table 4
Groundwater Parameters Measured Prior to Sampling
New Genico Facility
3927 E. 14th Street Oakland, California

			Specific	
Well I.D. No.	Sample Date	pН	Conductivity	Temperature
		-	(µmhos/cm)	(°F)
HMW-1	8/22/96		33-	
	2/25/97	4.55	680	75.0
	5/28/97	7.70	810	70.4
	9/2/97	6.73	1074	73.4
	11/26/97	6.93	966	70.0
	3/17/98	6.16	1,163	67.6
	6/30/98	6.80	1,006	71.6
	9/24/98	6.69	1,080	70.3
HMW-2	8/22/96			
	2/25/97	4.65	450	72.1
	5/28/97	7.80	480	69.4
	9/2/97	6.82	762	74.8
	11/26/97	6.99	731	69.8
	3/17/98	6.62	741	66.0
	6/30/98	6.88	610	71.6
	9/24/98	6.81	650	71.9
HMW-3	8/22/96		and the second districts	~~~
	2/25/97	5.87	390	63.3
	5/28/97	8.00	400	67.6
	9/2/97	6.97	669	70.9
	11/26/97	6.87	665	67.8
	3/17/98	6.43	734	65.9
	6/30/98	6.96	640	71.6
	9/24/98	6.93	650	69.8
HMW-4	11/26/97			
	3/17/98	6 66	769	66.3
	6/30/98	6.98	690	73.4
	9/24/98	7 05	620	70 9

NOTES

"---" = Not Measured







APPENDIX A KLEINFELDER FIELD PROTOCOL

A-1 FIELD PREPARATION

Before performing work in the field, environmental staff review the scope of work, prepare a health and safety plan, coordinate the work to be done with their supervisor, assemble the necessary sample containers, and check, calibrate and clean equipment to be used in the field. When underground utilities may exist at a site where subsurface soil samples are being collected, USA Underground is contacted with the boring locations and the scheduled date of drilling, or a utility locating firm is employed to check the boring locations.

A-2 DEPTH-TO-WATER MEASUREMENTS

Depth-to-water measurements are made in all the wells at the site prior to initiating purging and sampling, including wells that are not to be sampled. The depth-to-water measurements are made consecutively in as short a time as possible to reduce potential errors due to daily variations in the water table.

Depth-to-water (DTW) is measured in the well to within 1/100 of a foot using a conductivity-based water level indicator. Measurements are taken from the north or marked side of the top of casing of each well. These marks on the casings have been surveyed by a licensed survey relative to mean sea level (MSL). The conductivity probe and cable are rinsed in deionized water before and after measuring the first well, and after each subsequent well. The same water level indicator is used in each well.

A-3 WELL SAMPLING

The Kleinfelder sampling protocol for wells is as follows:

- The depth-to-water is measured using a conductivity-based water level indicator.
- The volume of water standing in each well is calculated by subtracting the depth-to-water measurement from the total depth of the well and multiplying by the appropriate volume conversion factor.
- A minimum of three well volumes of water is purged from each well using a submersible pump.
 The pump is decontaminated prior to use in each well by washing with liquinox™ and rinsing with distilled water. Pump tubing is replaced prior to purging each well. Purgewater is placed in 55-gallon drums.
- Physical parameters of pH and temperature are monitored for stability during purging.
- Sample bottles, provided by the analytical laboratory are filled from a new sterile disposable bailer at each well
- Samples are immediately labeled and placed in an iced sample container. At the end of each day, the samples are delivered to the analytical laboratory, under chain-of-custody control.

				MEASUI				Chast i	ا م
Pate:	3/24/9	<u> ১</u>	Weather:	<u> مرد،</u>	cast	<u>-</u>		Sheet (Date: 9)	
roject:	Hausa	رو	Submitted	By: <u>L</u> , By: <u>B</u> .	wal	JELEV		Date: 9	27/9
roject No):: 1?-30	4760	Reviewed	ву: <u>13.</u>	They	SELVE		<u> </u>	Fort d
Instrument	Number:				<u> </u>				
Well Number_	Time (opened/noussred)	Sensitivity Setting	Measuring Point	Measurement	Replicate M (if requ	casurements ested)		Notes	
	(24-hr)	(est. %)	† (X:T.)	1	2	3	Redox	0.0	<u> </u>
ا- س۸			31,25	8.22	8.75		-17	ч.6	
MW-7			29.43	8.20	8.20		-16	3.7	
MWZ			31.48	8.32	8.37		67	7.1	1
M-J-4			28.20	9.80	9,80	·	-17	6.6	
								<u> </u>	<u> </u>
·				 			· ·	 	
· · · · · · · · · · · · · · · · · · ·			 				 		
<u></u>	<u> </u>				<u> </u>	<u> </u>		1	1
 		 			 				
				<u> </u>		 			-
	<u> </u>	<u> </u>						-	-
		_		 	-		-		
	<u> </u>							 	-
					 		-		
						<u> </u>			
				-					

M.P.: TOC, GS, Cover ring, Other

All Wells Locked - YES / NO

KA	KLEINFEL	DER						······································		
WE	LL DEVEL	OPM.	ENT &	SAMPL	ING LC)G		WEL	L NO.	10-1
Date	9/24/98		Weather:	وبردح	cast				Sheet o	f
	ea: ((4,50		3	Submitted	By:	2010	scre		Date: a 2	163
Proj	ea No.: 12.3	50476	o I	Reviewed	By: B	They	3EB22		Date: $\frac{q^{1}}{2}$	4/98
	Purpose of L		[]	Developmen	ıt	Z	Sampling			
	Purging		Bailer	Disposable	Suction	Submers-	Dedicated (Other:		
	Equipment			Beiler	Pump	able Pump	Pump			
=	Sampling		Beila	Disposible	Suction	Submers-		Other:		1
됩	Equipment		····	Beiler	Pump	able Pump	Pump Conduc		Turbio	
Decontamination	Test Equipment	i-	<u>Water</u>	Level	<u>pH</u>	<u>. </u>	Contuct	AIVIU.	<u>Jurose</u>	<u></u>
1		ter No.								——
. 5	Calibration Dat		N/		Dia	a Ť	Rins	·e II	Rinse	111
9	Decontamination	n -	<u>Wa</u>		Rins DI	Steam	DI	Sicam	DI	Steam
쓓	Methods TSP	1	DI Tap	Steam Hot	Tap	Hot	Tap	Hot	Tap	Hot
됩	Alconox	1	Other	Cool	Other	Cool	Other	Cool	Other	Cool
Equipment	Other:	1	•							
찗	Vol	1. (gal):								
1]	Source:					<u> </u>		<u> </u>	
	Decon. Note	es:								لـــــــــــــــــــــــــــــــــــــ
\succ	Well S	ecurity:	good fa	ir (poor)	Wel	Integrity:	good fair	poor	Locked:	yes no
<u> </u>	Purge Volum		T.D.		DTW	×	Factor	× 1 C.V	=	1.91 gal
1	Well Diam.: 0			_ 1	8.27tr.	×	2*=0.175 4*=0.663	× ≥] = [S,73gal
1	Free Product?:	-	14012 TE		ng Product:	none	(sheen)	film	, -	feet thick
딤		<u></u>			P transacti			1		Replicate
Record	Time (24-hr)		13:52	13:SI		. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1000	75	 	<u>Goals</u>
L R	Gallons Purged		0	1.2	2.0	<u> </u>	West	PIY	 	(dev. only)
ient / Purge	Surged (minutes	5)	1					 	 	±0.10
13	pH	_	<u> </u>	6-69						±1°C
	Temperature (°C		T	76.3					-	±10%
	Cond. (umhos/c	XII)	A	1080	 				 	±10%
Developin	Salinity (%)		R				-	-	 	<50 NTU
A	Turbidity (NTU	(2)	T	wogereze	 	 		 		Coloriess
1	Color		 	prv	 		-	 	1	±0.01°
1	Depth to Water	_	TOC	Other:	<u> </u>	<u> </u>			<u> </u>	
\searrow	Reference				T 90	Decree	Filtration	A	alysis	Lab
1	Sample #	Time	Quantity	Volume	Туре	Preserv.	THUAUOL		RTEY MTB	-
	MW-1	iu'so		140m	AOU		+=	TPHOL	MO	1
15		╂╼╌╂	5	1250	Amber				+ 5142 k	1-1-
Sample Log	-	+	 }		Plash		+		ous Fron	1
Į		<u> </u>	 	132m	Interber	 		1.000	<u> </u>	1
l "	' 	 	 	 		 				
I	 		 			1		1		
\succ									Ω ,≅ ∪	4 . C
_	Other Observ		- B-	gex		13	~ t t			Jlons
Ş	<u> Liell</u>	ran	dry.	C-5-7-	1		inatel			· ,
2	30.0	يكل	- 261	ميرود		rech	ratab F	of tore	school? yes (FO NA
	Final Check:	VUAs fr	ee of bubble	esi(yes)i d	OINA			MEII IX	mui jus (

KA	KLEINFELI	DER								
WE	LL DEVEL	OPM	ENT &	SAMPL	ING LO	G		WEL	L NO. ^	NW 3
	: 9/24/98			0025	_				heet o	f
	ca: Harsa		3	Submitted	By: し,	Well	Mares	<u>I</u>	Date: 9/2	498
Proje	ect No.: 12-3	04 74	<u> </u>	Reviewed	By: R	They	skens	I	Date: $9\frac{1}{3}$	47 42
	Purpose of L	og	<u> </u>	Developme	ıt	X	Sampling			ر ا
\succ	Purging		Bailer /	Disposable	Suction	Submers-	Dedicated	Other.		
	Equipment	•	(Beilg	Pump	able Pump_	Pump			
-	Sampling		Beiler /	Disposable	Suction	Submers-	Dedicated	Other:		
휲	Equipment			Bailo	Pump	able Pump	Pump			**.
Decontamination	Test Equipment		Water	<u>Level</u>	<u>p</u> H		Condu	anny	Turbic	11TY
tam		er No.					<u> </u>			
63	Calibration Date		N.			_ <u>_</u>	5:-	- 77	Rinse	mi
	Decontamination	1	<u>Wa</u>		Rins			Steam	Di	Steam Steam
3	Methods	1	DI To-	Steam Hot	DI Tap	Steam Hot	DI Tap	Hot	Tap	Hot
닭	TSP Alconox	1	Tap Other	Cool	Other	Cool	Other	Cool	Other	Cool
Equipment &	Other:		<u>.</u> – 							
图	-	. (gal):					<u> </u>			
		Source:								
	Decon, Note	s:								
\succ	Well So		good fa	ir (poor	Wei	l Integrity:	(good) fai	г роог	Locked:	yes (no)
		 -		it (boot	DTW	×	Factor	× 1 C.V	E	163 gal
l	Purge Volum		T.D.				2"=0.175	× Q.3	. +	4.89 gal
	Well Diam.: XX 2	•		- Till a a si	7,20ft.	none	sheen	film	ı . L	fect thick
স	Free Product?:	Odor:	no yes	Floatu	ng Product:					
ent / Purge Record	Time (24-hr)		13:15	13:18	13,25		13:59	<u> </u>		Replicate Goals
W.	Gallons Purged		0	1.22	2.50	3.40	5.00	 		(dev. only
	Surged (minutes))	1					-		±0.10
15	pH		S	7.37	40.5	6.85	[68]			±1°C
Ħ	Temperature (°C)	T	73.1	72.7	72.2	71.9			±10%
	Cond. (junhos/ci	m)	A	670	660	640	650	 		±10%
Develop	Salinity (%)		R							<50 NTU
	Turbidity (NTU	s)	T	Jieth-		. 17		-	-	Colories
1	Color		+	it grey	 	13 21 p	<u> </u>	 	 	±0.01
ļ	Depth to Water			نــنـِــــــــــــــــــــــــــــــــ					<u></u>	
	Reference	e Point:	TOC	Other:						Lab
	Sample #	Time	Quantity	Volume	Type	Preserv	Filtration		alysis	
1	G-WM	12:33		yon	AOV	HCI			* BLEX ME	Enter
ä			2_	11-	Ambes		1	TPHO	Ma	╂╾╼┼╼╾
Sample Log			1	350 W/	Plasti		1		Sitter	+-
· [4	47	1	138 W	A) Side		-	Ferro	s tran	X-
\ \&			<u> </u>			 				
1			<u> </u>		_					+
	<u> </u>	<u></u>	<u> </u>							
	Other Observ	rations:		5	zedox:	=-16		2.0	<u> </u>	
\$ \$					<u> </u>					
\$								·		N/ N/
l	Final Check:	VOAs fr	ee of bubbl	es? yes) I	10 / <u>NA</u>			Wellic	cked? yes	no'y 147

KA	KLEINFEL	DER												
WE	VELL DEVELOPMENT & SAMPLING LOG Sheet 1 of 1 Toject: Vansaner Submitted By: L. Wallgren Date: 9/24/98 Date: 9/24/98													
,			Weather:	0025	cast					1				
			_	Submitted	By: ∟,	Mah	ster_			4/98				
Proje	ext No.: 17-3	nu 7			By: B.		Stens	D	ate: 9/2	4/98				
	Purpose of L)evelopmer	ıt	Z)	Sampling			رٽ				
\succ	Purging		Builer	Dispositule	Suction	Submers-	Dedicated C	Other:						
	Equipment			Baild	Pump	able Pump	Pump							
-	Sampling		Beiler	Disposable	Suction	Submers-	Dedicated (Other:		1				
튑	Equipment			Beiler	Pump	able Pump	Pump	42-24-1	Tueli	<u></u>				
Decontamination	Test Equipment		Water	<u>evel</u>	pH		Conduc	alvily	Turbic	111Y				
1	_	ter No.												
5	Calibration Dat		N/				Rins		Rinse	111				
	Decontaminatio	n L	Wa	=	Rins		DI	Steam	DI	Steam				
4	Methods	1	Di Tan	Steam Hot	DI Tap	Steam Hot	Tap	Hot	Tap	Hot				
目	TSP Alconox	1	Tap Other	Cool	Other	Cool	Other	Cool	Other	Cool				
Equipment	Other:	{	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_									
5		L (gal):												
		Source:												
l	Decon, Not	es:		<u></u>										
\succ		ecurity:	good (fa	ir) poor	Wel	Integrity:	good fair) poor	Locked: (yes no				
			T.D.	<u>-</u>	DTW	×		× 1 C.V	=	(,399 gal				
1	Purge Volum	4			7.32ft.	×	2-0.175	x ~~	= 1	1.17 gal				
1	Well Diam.: []			Election	ng Product:	none	sheen	film		feet thick				
딘	Free Product?:	Odor:	no (yes)	Fioau			_		7	Replicate				
ent / Purze Record	Time (24-hr)		14.10	14:14		14:54				Goals				
K	Gallons Purged		0	1,0	2,0	30	u.s			(dev. only)				
	Surged (minutes	s)	1				6.92			±0.10				
15	pΗ		S	حيم	4.93	6.93		 		±1°C				
E	Temperature (°C	<u>C)</u>	T	8.0º	69.8	69.8	69.8	 		±10%				
	Cond. (µmhos/c	M)	A	650	690	620	1810	 		±10%				
Develop	Salinity (%)		R		<u> </u>		 	 		<50 NTU				
IA	Turbidity (NTU	(2)	T	sight.			12-	 		Coloriess				
	Color		 •	clear	clear	16 pr	11+ pro			±0.01'				
1	Depth to Water				<u> </u>	<u> </u>		<u></u>						
	Referen			Other:		T 2000000	Filtration	Ana	lysis	Lab				
	Sample #	Time	Quantity	_	Type	Preserv.	Fittation		RIEX MI	-				
1	MW-3	14,5		190ml	AOV	HCI	-	784-87						
13	WW-3	14:35		1050	Amber	_	1		1 420 T	1-1				
13	Wm-3	14:3		250M	2000	+	-	Cerous	_	4				
Sample Log	MW-3	14:35	}	172 -	1 -4 55042	4	1	1 3.003						
ر در	* 	 	 -			 		1						
l	 	 	- 	 		 								
>	+				110		المسابر المسابق المشابق المشابق المسابق المسابق المسابق المسابق المسابق المسابق المسابق المسابق المسابق المساب المسابق المسابق المساب	120	= 7.1					
	Other Obser	vauons:	K	coc K	+ 69			<u> </u>	 +					
Ş	 													
^	1	104-6	na astuall	ec? was 1/2	NA NA			Well Lox	ked? ye	no / NA				
•	Final Check:	AAV	ice or papel	car you /(I	10 1) 13A									

KA	KLEINFEL	DER												
WE	L DEVELOPMENT & SAMPLING LOG Sheet 1 of 1 The submitted By: 1, Weller Date: 9/24/97													
:	,								Sheet 1	of				
				Submitted	By:	رياط	le res		Date: Q	24/97				
Proje	xt No.: 12.3	50 V 3		Reviewed					Date: 9	24 विष				
	Purpose of I	.0 2		Developme		KI	Sampling		ι					
\succ	Purging		Bailer	Disposible	Suction	Submers-	Dedicated	Other: Des	is tall	20				
	Equipment		(Build	Pump	able Pump	Pump	1	brub					
_	Sampling		Beiler /	Disposable	Suction	Submers-	Dedicated	Other:						
Ę.	Equipment		` i	Bailer	Pump	able Pump	Pump							
Decontamination	Test Equipment		Water	Level	p <u>l</u>	<u> </u>	Condu	ctivity	Turb	IOITY				
Ę.	· · · · · · · · · · · · · · · · · · ·	acr No.								{				
. 5	Calibration Dat	1	N/				Dia		Rins	- 111				
	Decontamination	n [Wa		Rins			se II Steam		Steam Steam				
2	Methods TSP	- 1	DÎ) Tap	Steam Hot	Dh Tap	Steam Hot	(DI) Tap	Hot	Tap	Hot				
됩	Alconox	1	Other	(Ga)	Other	(coa)	Other	@	Other	(Gi)				
Equipment &	Other: liquin	.ex	•				<u> </u>		·					
		l. (gal):					<u> </u>	<u></u>						
		Source:					<u> </u>							
	Decon. Not	es:												
\succ	Well S	ecurity:	good (fa	ir) poor	Wel	I Integrity:	(good) fai	r poor	Locked:	yes nd				
	Purge Volum		T.D.		DTW	×	Factor	× 1 C.V	=	0.32 gal				
	Well Diam: D				1.80 ft.	×	2*=0,175 4*=0,663	XXXXX] =	666 gal				
1	Free Product?:				ng Product:	none	sheen	L.Wfilm		feet thick				
빔		Odor.	\sim					.1		Replicate				
ent / Purge Record	Time (24-hr)			12:33	15.35	12:39	10.43	 	 	Goals				
5	Gallons Purged		1	0.2	0.4	<u>6.6</u>	10.70	1		(dev. only)				
月	Surged (minutes	5)		7,10	7,08	7.07	7.05		 	±0.10				
13	pH	~	S		70.9	70.7	70.9		-	±1°C				
Į	Temperature (°C			71.9		670	620	-	 	±10%				
Develop	Cond. (umhos/c	m)	A R	680	620	0.10	1000			±10%				
H	Salinity (%)	la)	T				-0	1	1	<50 NTUs				
A	Turbidity (NTU	8)	1	race-			10	1.		Coloriess				
1	Color Depth to Water		 -	Le cape .			 	1		±0.01'				
1	Reference		TOC	Other:	<u>.l</u>	ل	سەسىسىيىكى	·						
\succ		Time	Quantity	Volume	Турс	Preserv.	Filtration	n Ar	alysis	Lab				
•	Sample #			4 Otorrie		1	1	1	<u> </u>					
1	MW-4	12,20		 	 	1	1	1	 					
13	}	}	 	 	 	1	1	1						
딈	}		 	 	-	1								
Sample Log		 		1	1	1								
"	·	 	1	1	1									
l		1	9											
\succ	Other Observ	vations.		Redo	<i></i>	[7		D,Q	. 6, 6	Š				
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	Final Check:	VOAs fi	ee of bubble	es? yes) to	o / NA	 		Well Lo	ocked? yes	(no) NA				
•						المراجع والمراجع والمراجع								

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Kleinfelder 1362 Ridder Park Drive

San Jose, CA 95131 Attn: Bill Theyskens Date: 10/8/98

Date Received: 9/24/98

Project: 12-304760

PO #:

Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Water Sample Ana	19313.						 	,
Sample ID	MW-1			MW-2				
Sample Date	9/24/98			9/24/98				
Sample Time	14:50			13:32				
Lab#	E17346			E17347	,		 	
	Result	DF	DLR	Result	DF	DLR	PQL	Method
Results in µg/Liter:								
Analysis Date	9/28/98			9/29/98				
TPH-Diesel	ND	1.0	50	ND	1.0	50	50	8015M
TPH-Motor Oil	6,600	1.0	50	ND	1.0	50	 50	8015M
Analysis Date	9/28/98			9/30/98				
TPH-Gas	7,100	40	2000	2,900	2.0	100	50	8015M
MTBE	430	40	200	12	2.0	10	5.0	8020
Benzene	890	40	20	32	2.0	1.0	0.50	8020
Toluene	89	40	20	1.5	2.0	1.0	0.50	8020
Ethyl Benzene	230	40	20	38	2.0	1.0	0.50	8020
Xylenes	180	40	20	16	2.0	1.0	0.50	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

Michelle L Anderson. Lab Director

[·] Report amended 10/8/98

[·] Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

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Kleinfelder

1362 Ridder Park Drive

San Jose, CA 95131

Attn: Bill Theyskens

Date: 10/9/98

Date Received: 9/24/98

Project: 12-304760

PO #:

Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-1			MW-2			 	-	
Sample Date	9/24/98			9/24/98					
Sample Time	14:50			13:32					
Lab#	E17346			E17347					
	Result	DF	DLR	Result	DF	DLR		PQL	Method
Results in mg/Liter:									
Analysis Dates:	9/25-9/29/98			9/25-9/29/98					
Ferrous Iron	ND	1.0	0.05	ND	1.0	0.05		0.05	SM3500
Nitrate-Nitrogen	1.4	1.0	0.1	ND	1.0	0.1		0.1	353.3
Sulfate	ND	1.0	0.1	ND	1.0	0.1		0.1	375.4

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

- · Report amended 10/9/98
- · Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

Michelle L Anderson, Lab Director

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1362 Ridder Park Dr San Jose, CA 95131

Attn: Bill Theyskens

Date: 10/8/98

Date Received: 9/24/98

Project: 12-304760

PO#:

Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-3			MW-4			Trip Blank				
Sample Date	9/24/98			9/24/98			9/24/98				
Sample Time	14:35			12:50							
Lab#	E17348			E17349			E17366				
!	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Results in µg/Liter:											
Analysis Date	9/28/98	,		9/28/98							
TPH-Diesel	ND	1.0	50	ND	1.0	50	na			50	8015M
TPH-Motor Oil	ND	1.0	50	ND	1.0	50	na			50	8015M
Analysis Date	9/28/98			9/28/98			9/28/98		i		
TPH-Gas	58	1.0	50	370	1.0	50	ND	1.0	50	50	8015M
MTBE	ND	1.0	5.0	11	1.0	5.0	ND	1.0	5.0	5.0	8020
Benzene	ND	1.0	0.50	7.2	1.0	0.50	ND	1.0	0.50	0.50	8020
Toluene	ND	1.0	0.50	ND	1.0	0.50	ND	1.0	0.50	0.50	8020
Ethyl Benzene	ND	1.0	0.50	0.75	1.0	0.50	ND	1.0	0.50	0.50	8020
Xylenes	0.76	1.0	0.50	1.3	1.0	0.50	ND	1.0	0.50	0.50	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

- · na: not analyzed
- · Report amended 10/8/98
- · Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

Michelle L. Anderson, Lab Director

CA ELAP# 2224

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Kleinfelder

1362 Ridder Park Dr

San Jose, CA 95131

Attn: Bill Theyskens

Date: 10/9/98

Date Received: 9/24/98

Project: 12-304760

PO #:

Sampled By: Client

Certified Analytical Report

Water Sample Analysis: (All results in mg/Liter)

Sample ID	MW-3			MW-4					
Sample Date	9/24/98			9/24/98					
Sample Time	14:35			12:50					-
Lab#	E17348			E17349					
	Result	DF	DLR	Result	DF	DLR		PQL	Method
Analysis Date	9/25-9/29/98			9/25-9/29/98					
Ferrous Iron	ND	1.0	0.010	ND	1.0	0.010		0.010	SM3500
Nitrate-Nitrogen	4.9	1.0	0.10	ND	1.0	0.10		0.10	353.3
Sulfate	95	1.0	0.10	11	1.0	0.10		0.10	375.4

[·] Report amended 10/9/98

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KLEINFELDER SAN JOSE

Michelle L. Anderson, Lab Director

DI =Dilution factor PQL= Practical Quantitation Limit ND=None Detected above DLR
DLR=Detection Reporting Limit
Environmental Analysis Since 1983

[·] Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4980930

Date Analyzed: 09/30/98

Matrix: Water

Quality Control Sample: Blank Spike

Units: ug/L

PARAMETER	Method #	MB ug/L	SA ug/L	SR ug/L	SP ug/L	SP % R	SPD ug/L	SPD %R	RPD	QC RPD i	LIMITS %R
Benzene	8020	<0.50	80	ND	66	83	64	80	3.4	25	77-116
Toluene	8020	<0.50	80	ND	65	81	65	81	0.4	25	76-116
Ethyl Benzene	8020	<0.50	80	ND	66	83	65	82	1.7	25	77-116
Xylenes	8020 i	<0.50	240	ND	207	86	203	85	2.0	25 i	73-122
Gasoline	8015	<50.0	1000	ND	1060	106	1050	105	0.9	25	65-136

Note: LCS and LCSD results reported for the following Parameters:

All

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery

NC: Not Calculated

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

Laboratory Control Spikes QC Batch #: DW980906

Date analyzed:

09/28/98

Date extracted:

09/28/98

Matrix: Water Units: µg/L

Quality Control Sample:

Blank Spike

PARAMETER	Method #	MB μg/L	SA μg/L	SR μg/L	SP μg/L	SP %R	SPD μg/L	SPD %R	RPD	QC RPD	LIMITS %R
Diesel	8015M	<50.0	950	ND	936	99	988	104	5	i 25 i	61-133
[[1) i	l !	 	1 1	

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R) Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R) Spike Duplicate % Recovery

NC: Not Calculated

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Kleinfelder 1362 Ridder Park Drive San Jose, CA 95131 Attn: Bill Theyskens



Date Received: 9/24/98 Project: 12-304760

PO #:

Sampled By: Client

Date: 10/7/98

KLEINFELDER SAN JOSE

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-1			 			
Sample Date	9/24/98			 			
Sample Time	14:50						
Lab#	E17346			 _			
	Result	DF	DLR			PQL	Method
Results in µg/Liter:							
Analysis Date	10/6/98						
MTBE	ND	10	50			5.0	8240

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

- · Sample diluted due to high concentrations of non-target hydrocarbons
- · Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

Michelle L. Anderson, Lab Director

QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Compounds

QC Batch #: 8240W980927

Date analyzed:

10/06/98

Matrix: Water

Spiked Sample:

Blank Spike

Units: 1	μg/L
----------	------

PARAMETER	Method #	SA	SR	SP	SP	SPD	SPD	RPD	QC	LIMITS
		μg/L	μg/L	μg/L	%R	μg/L	%R	<u> </u>	RPD	%R
11,1- Dichloroethene	624/8240	25	ND	25	99%	27	106%	7.0	25	50-150
Methyl-tert-butyl ether	624/8240	25	ND	28	113%	32	127%	12.0	25	50-150
Benzene	624/8240	25	ND	25	100%	26	105%	4.7	25	50-150
Trichloroethene	624/8240	25	ND	24	98%	26	103%	5.2	25	50-150
Toluene	624/8240	25	ND	24	94%	26	102%	8.6	25	50-150
Chlorobenzene	624/8240	25	ND	23	93%	26	103%	10.2	25	50-150
1,2,4-Trichlorobenzene	624/8240	25	ND	26	106%	30	120%	13.1	25	50-150
i 	! 		i .] !	! 	· ·		! 	i I		

Definition of Terms:

na: Not Analyzed in QC batch

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP Spike Result

SP (%R) Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R) Spike Duplicate % Recovery

NC: Not Calculated

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Chain of Custody/Analysis Work Order

Purchase Order #:

Project ID: 12-304760

LAB USE ONLY

Client Kleinfelder

Address 1362 Ridder Park Dr

Date R	Sance Scott	1/24/92	<u> </u>	5131 L Sp	mpler/Comp as Wal Lein Fel ecial Instruc	الأنزاعة الكامات	^ (पंज ५३६	hone #: 8) 11 5.S		,	nples arr Yes tes:		illed an	d intact	:
			Sample In	formation					<u>-</u> ı		quested	Analy	sis		
Lab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPH3 BTEX MTBX	TPH OL TPH MO	Februss	17/1-12 3-41-2		!		
	MW-1	Grab	4,0		14:50	HCI	VOA	X							
31	MW-1			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1-2C/	125 MI			\times _	 				
673	<u>Μω- \</u>						(L Amber		\times					ļi	
10,	MW-1				4		250 ml Plasti	·		<u></u>	X				
- A (MW-J			<u> </u>	13:35	HC(UOA	\times						[
3	wm-J						125ml Amb	r.		<u> </u>					<u> </u>
6/3/8	MU-3	1-7-			4		1 L Amber				X			ļ	
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Reling/ By	- O O O O O		-	Received	Received By. Dat						£,	Tin		-1	

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Chain of Custody/Analysis Work Order

Purchase Order #:

Project ID: 12-304760

Telephone #:

LAB USE ONLY

Client Kleinfelder

Address: 1362 Ridder Park Dr

Date Re	Contact: B: Uce ceived. Contact: Contac	11 They, 08) 43 1/24/9	8	S _F	Special Instructions/Comments					Samples arrived chilled and intact: Yes No Notes:					
_	Haraly	re for	TP45 (Sample In	MTBL, 2 formation	Be、 8 BTEK ation				Requested Analysis						
217366 Lab#			H2C/ Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPHG BTEK MTBC	TPH MO	Ferros	Nitrate Sulfate				
	Mw.3	Grab	H ₂ O	924/98		401	AOV	X							
M	MW-3			, ,			125 ml Amber	•		X					
6	MW-3						1 L Amber		X					···	
	MW-3				4		250 ml Plasti				X		 		
W.	MW-4				12:50	<u>HC1</u>	AOU	X							
12	MW-4	_					125 ml Amb	Ē		X					
7	Mw-4						1 L Amber		X						
6	Mw-4	4	6	4	4		250 M Plas	Ł	<u></u>		$\perp \times \perp$				
Reling By Jars W Arul				Received	Received By: JUMS 942				Date	9/24/98 17:12					
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Relmq/ By				Received	Ву:				Date			Time			