BLUE ROCK
ENVIRONMENTAL, INC.

Mr. Bob Stone
Environmental Health Specialist
Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA, 95501

January 28, 2005

FILE COPY

Re: **First Quarter 2005 Groundwater Monitoring Report**
Dave's 76
1666 Main Street
Fortuna, California
LOP #12708
Project No. NC-20

Dear Mr. Stone,

This report presents the results of the First Quarter 2005 groundwater monitoring activities at 1666 Main Street, Fortuna, Humboldt County, California (site) (Figure 1), and was prepared for Mr. David Ansley by Blue Rock Environmental, Inc. (Blue Rock).

Background

Site Description
The site is located on Main Street in the City of Fortuna, Humboldt County, California one block north west of the intersection of Main Street and South Fortuna Boulevard (Figure 1). The site is an active service station constructed in 1958 that sells gasoline and diesel fuel. Onsite improvements consist of a single story building, two dispenser islands and three double wall fiberglass wrapped underground storage tanks (UST). The tank complex contains one 6,000-gallon UST storing premium gasoline, one 12,000-gallon UST storing regular gasoline and one 6,000-gallon diesel UST utilizing four fuel dispensers. Water and sewer services at the site are provided by public utilities. The site is paved with asphalt with the exception of the northwest corner in the vicinity of the former waste oil UST.

Site History
In 1995, one waste oil UST was removed by the station owner. Soil and groundwater samples were not collected by the owner. In March 1999, three 6,000-gallon gasoline USTs located in a complex at the eastern end of the property, and one 2,000-gallon diesel UST located approximately 5 feet west of the south fuel dispenser island were removed by Beacom Construction of Fortuna, California. The removed USTs were replaced with the previously mentioned current UST system.

During UST excavation activities of March 1999, visibly contaminated soil was removed through overexcavation of the tank pits which formerly contained the diesel and gasoline USTs.

Approximately 450 cubic yards of petroleum contaminated soil were removed from the excavations. The soil was stockpiled on site and covered with plastic sheeting. Analytical results of samples collected from the excavations confirmed the presence of gasoline and diesel range hydrocarbons in the soil and groundwater.

The excavation was deepened below first encountered groundwater. Groundwater was encountered in the excavations at a depth of approximately 5.5 feet below ground surface (bgs). Groundwater was pumped from the excavation into an onsite holding tank. In April 1999, Clearwater Group (Clearwater) installed an aeration system onsite and groundwater in the holding tank was aerated by pumping air into the standing water. This was performed to volatilize some of the existing hydrocarbons prior to offsite disposal. Aerated groundwater was subsequently disposed of offsite by a licensed contractor. As previously mentioned, the new USTs were installed in the existing excavation. The excavation associated with the diesel UST was subsequently backfilled with clean imported gravel.

Site Investigation and Corrective Action History

In September 2000, Clearwater supervised Denbeste Trucking of Windsor, California in the removal of soil generated during the overexcavation activities of March 1999. Approximately 724 tons of petroleum impacted soil was transported to Forward Inc. in Manteca, California. Soil below the former stockpile was sampled per Humboldt County Division of Environmental Health (HCDEH) requirements.

On January 8, 9, and 12, 2001, Clearwater supervised Clearheart Drilling of Santa Rosa, California in the drilling of 11 soil borings. On February 14, 2001, three 2-inch monitoring wells (MW-1 to MW-3) were installed in accordance with Clearwater's *Revised Subsurface Investigation Workplan* dated November 3, 1999. Well construction details are presented in Table 2. Data collected during this phase of investigation confirmed the presence of gasoline, diesel and motor oil range hydrocarbons in soil and groundwater at the subject site. Results of the subsurface investigation are presented in Clearwater's *Subsurface Investigation Report* dated March 22, 2001.

On November 15, 2001, Clearwater supervised Mitchell Drilling Environmental (MDE) of Rancho Cordova, California in the installation of five 2-inch diameter monitoring wells (MW-4, through MW-8) in accordance with Clearwater's *Plume Delineation Workplan / Sensitive Receptor Survey* dated July 19, 2001. Results of the subsurface investigation are presented in Clearwater's *Additional Investigation and Fourth Quarter 2001 Quarterly Monitoring Report* dated January 10, 2002.

On June 10, 2002, Clearwater supervised MDE in the installation of four 2-inch diameter monitoring wells (MW-9, through MW-12) in accordance with Clearwater's *Workplan for Additional Investigation* dated April 8, 2002. Results of the subsurface investigation are

presented in Clearwater's *Additional Investigation and Second Quarter 2002 Quarterly Monitoring Report* dated July 31, 2002.

On October 11, 2002, Clearwater supervised MDE in the installation of two 2-inch diameter monitoring wells (MW-13 and MW-14) in accordance with Clearwater's *Workplan for Additional Investigation* dated August 30, 2002. Results of the subsurface investigation are presented in Clearwater's *Additional Investigation and Fourth Quarter 2002 Quarterly Monitoring Report* dated November 25, 2002.

In accordance with Clearwater's *Workplan for Additional Investigation* dated February 20, 2003, Clearwater supervised MDE in drilling four 8-inch diameter soil borings on June 10, 2003 (MW-15 through MW-18). Results of the subsurface investigation are presented in Clearwater's *Additional Investigation and Third Quarter 2003 Groundwater Monitoring Report* dated August 5, 2003.

On February 11, 2004, Clearwater submitted a *Corrective Action Plan* (CAP) to the HCDEH. In a letter dated February 23, 2004 the HCDEH concurred with the proposed remedial action contained in the CAP. In the letter, the HCDEH recommended abandonment of MW-1, MW-2, and MW-4 prior to implementation of the proposed excavation activities. In May 2004, Blue Rock was retained by Mr. Ansley to continue site work. MW-1, MW-2, and MW-4 were destroyed per HCDEH request in June 2004.

Between the dates of October 19 and October 29, 2004, Blue Rock and Van Meter Construction completed remedial activities associated with the removal and disposal of 790 tons of contaminated soil and approximately 4,000 gallons of groundwater associated with the former UST fuel system at the subject site. Blue also installed one groundwater extraction trench for future connection to a remedial compound.

On October 22, 2004, Blue Rock proposed to relocate the position of proposed extraction trench EX-1. The proposed change was based on subsurface conditions, logistics and cost. The HCDEH concurred with this proposal in a letter dated October 26, 2004. Upon completion of the excavation activities described above Blue Rock prepared and submitted a *Remedial Report of Findings* dated November 12, 2004.

On December 20, 2004 Blue Rock performed a constant discharge aquifer test on EX-1 to determine specifications for the groundwater extraction system proposed in the *CAP* dated February 11, 2004 prepared by Clearwater.

Field and Laboratory Activities

Groundwater Monitoring Activities

On January 5th and 6th, 2005, 15 wells (MW-3 and MW-5 through MW-18) were gauged and sampled. Prior to sampling, an electronic water level indicator was used to gauge depth to water in each well, accurate to within ±0.01-foot. All wells were checked for the presence of light non-aqueous phase liquid (LNAPL) petroleum prior to purging. No measurable thicknesses of LNAPL were observed on groundwater in any of the wells.

In preparation for sampling, the wells were purged of groundwater until sampling parameters (temperature, pH, and conductivity) stabilized. Following recovery of water levels to at least 80% of their static levels in the other wells, groundwater samples were collected from the wells using disposable polyethylene bailers and transferred to laboratory supplied containers. Sample containers were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

Purging instruments were cleaned between use by an Alconox® wash followed by double rinse in clean tap water to prevent cross-contamination. Purge and rinseate water was stored on-site in labeled 55-gallon drums pending future removal and disposal.

Groundwater monitoring and well purging information is presented on Gauge Data/Purge Calculations and Purge Data sheets (attached).

Groundwater Sample Analyses

Groundwater samples were analyzed by Kiff Analytical (Kiff), a DHS-certified laboratory, located in Davis, California, for the following analytes:

- TPHd by EPA Method 8015M (silica gel cleanup)
- TPHg, BTEX, MTBE, TBA, DIPE, ETBE, TAME by EPA Method 8260B
- TPHmo by EPA Method 8015M (MW-8) (silica gel cleanup)

Groundwater Monitoring Results

Groundwater Flow Direction and Gradient

Static groundwater in the wells was present beneath the site at depths ranging from approximately 4.19 (MW-17) to 8.84 (MW-5) feet bgs. Gauging data, combined with well elevation data, were used to calculate groundwater elevation, and to generate a groundwater elevation and gradient map. In the immediate vicinity of the site, the groundwater flow direction was calculated to be toward the southeast and south at a gradient of approximately 0.017 ft/ft

(Figure 3). To the south of the site, there are localized groundwater flow components to the southeast, southwest and northwest. The groundwater gradients and flow directions are consistent with previous measurements.

Groundwater Contaminant Analytical Results

LNAPL:	None
TPHg concentration:	<50 micrograms per liter (µg/L) (MW-3, 5, 6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18) to 17,000 µg/L (MW-7)
TPHd concentration:	<50 micrograms per liter (µg/L) (MW-3, 5, 6, 9, 10, 11, 12, 13, 14, 16, 17, 18) to < 1,000 µg/L (MW-7)
MTBE concentration:	<0.5 µg/L (MW-8, 9, 17) to 920 µg/L (MW-7)
Benzene concentration:	< 0.5µg/L (MW-3, 5, 6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18) to 230 µg/L (MW-7)

Groundwater sample analytical results are shown graphically on Figures 4, 5 and 6. Cumulative groundwater sample analytical results are summarized in Table 1. Copies of the laboratory report and chain-of-custody form are attached.

Remarks

Groundwater sample analytical results fall within historical concentration range for the site. The method reporting limit for TPHd in MW-7 was increased due to interference from gasoline range hydrocarbons. Hydrocarbons reported as TPHd in MW-8 do not exhibit a typical diesel chromatographic pattern.

Project Status and Recommendations

- The site is currently being monitored on a quarterly basis per the HCDEH directives. The next quarterly sampling event is scheduled for April 2005. Per the HCDEH letter dated October 26, 2004, the current suite of target analytes has been reduced, eliminating all the fuel oxygenates with the exception of MTBE. Groundwater samples will be analyzed for TPHg, TPHd, BTEX and MTBE (all wells) and TPHmo (MW-8 only) in the next scheduled event. TAME, ETBE, DIPE and TBA were inadvertently analyzed in this event.

- Blue Rock is currently preparing a Groundwater Extraction System Construction and Specification Plan which will include data collected during the constant discharge pilot test performed in December 2004. This report will be submitted in early February 2005

Certification

This report was prepared under the supervision of a California Registered Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock or others. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

Sincerely,
Blue Rock Environmental, Inc.

Prepared by:

Andrew LoCicero
Project Scientist

Reviewed by:

Brian Gwinn, PG
Principal Geologist

REGISTERED GEOLOGIST
BRIAN M. GWINN
No. 6505
exp. 4/30/05
STATE OF CALIFORNIA

Attachments

Table 1: Groundwater Elevation and Analytical Data
Table 2: Monitoring Well Construction Details
Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3: Groundwater Elevations and Gradient – 1/5/05
Figure 4: Dissolved - Phase TPHg Distribution – 1/5/05 – 1/6/05
Figure 5: Dissolved - Phase MTBE Distribution – 1/5/05 – 1/6/05
Figure 6: Dissolved - Phase Benzene Distribution – 1/5/05 – 1/6/05
Blue Rock Gage/Purge Calculations and Well Purging Data field sheets
Laboratory Analytical Report and Chain-of-Custody Form

CC:
Mr. Dave Ansley
1666 Main Street
Fortuna, CA 95540

Table 1
Groundwater Elevations and Analytical Results
Dave's 76
1666 Main Street
Fortuna , California
Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-1	2/21/01	98.89	9.10	0.00	89.79	7,510	1,790	<50	3,240	90.1	437	440	4,000	<500	<0.5	<0.5	<0.5	--	--
	5/4/01	98.89	8.97	0.00	89.92	14,000	<2,000	<100	2,800	170	990	1,000	3,900	860	<10	<10	25	--	--
	8/3/01	98.89	11.47	0.00	87.42	20,000	<2,000	<100	2,400	150	1,200	1,300	2,900	690	<10	<10	33	--	--
	11/28/01	98.89	8.95	0.00	89.94	29,000	<4,500	<100	1,200	210	1,800	3,000	990	310	<10	<10	<10	<6,300	<100
	1/14/02	98.89	6.69	0.00	92.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	98.89	7.02	0.00	91.87	43,000	<3,800	<100	1,300	130	1,200	2,100	1,200	330	<5	<5	7.5	<3,100	<50
	3/19/02	98.89	7.26	0.00	91.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	98.89	7.95	0.00	90.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	65.81	9.96	0.00	55.85	16,000	<2,500	790	1,400	79	710	1,000	1,400	360	<5	<5	9.6	<500	<100
	10/24/02	65.81	13.36	0.12	52.45	SPH Present No Sample Taken													
	1/23/03	65.81	8.69	0.00	57.12	22,000	<2,000	--	1,200	85	940	1,000	1,400	390	<5	<5	11	<500	<50
	4/16/03	65.81	8.15	0.00	57.66	11,000	<2,000	--	920	36	290	260	1,200	290	<5	<5	10	<500	<50
	7/7/03	65.81	10.71	0.00	55.10	15,000	<3,000	--	980	56	620	670	1,100	330	<5	<5	11	<500	<50
	10/15/03	65.81	13.79	0.00	52.02	9,000	<3,000	--	920	30	360	290	1,600	480	<5	<5	20	<500	<50
	1/29/04	65.81	8.89	0.00	56.92	11,000	<3,000	--	800	34	480	380	880	240	<2.5	<2.5	7.6	<250	<25
	4/12/04	65.81	9.56	0.00	56.25	11,000	<3,000	--	690	32	450	390	810	240	<2.5	<2.5	7.4	<250	<25
	07/06/04					Well destroyed in preparation for excavation activities													
MW-2	2/21/01	97.79	8.95	0.00	88.84	7,550	1,440	<50	2,770	226	336	758	4,170	<1,000	<10	<10	<10	--	--
	5/4/01	97.79	8.98	0.00	88.81	8,300	<1,500	<100	1,800	170	180	630	2,600	1,100	<5	<5	72	--	--
	8/3/01	97.79	11.10	0.00	86.69	16,000	<1,500	<100	1,600	440	290	1,700	2,800	1,200	<5	<5	83	--	--
	11/28/01	97.79	8.55	0.00	89.24	7,300	<1,300	<100	630	72	230	400	950	580	<2.5	<2.5	40	<3,900	<25
	1/14/02	97.79	6.79	0.00	91.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	97.79	7.13	0.00	90.66	5,100	<500	<100	750	41	140	220	1,400	530	<2.5	<2.5	43	<3,600	<25
	3/19/02	97.79	7.27	0.00	90.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	97.79	8.22	0.00	89.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	64.70	9.94	0.00	54.76	20,000	<3,500	<200	530	260	180	1,800	1,000	500	<2.5	<2.5	44	<500	<50
	10/24/02	64.70	12.68	0.09	52.02	SPH Present No Sample Taken													
	1/23/03	64.70	8.91	0.00	55.79	11,000	<5,000	--	270	22	170	340	1,600	630	<2.5	<2.5	55	<250	<25
	4/16/03	64.70	8.20	0.00	56.50	5,900	<3,000	--	240	13	160	120	1,400	550	<5	<5	49	<500	<50
	7/7/03	64.70	10.48	0.00	54.22	9,000	<3,000	--	280	68	210	560	1,100	450	<2.5	<2.5	40	<250	<25
	10/15/03	64.70	13.08	0.00	51.62	8,800	<3,000	--	300	41	270	420	1,100	480	<2.5	<2.5	41	<250	<25
	1/29/04	64.70	8.88	0.00	55.82	6,400	<2,000	--	240	17	170	230	810	360	<2	<2	30	<200	<20
	4/12/04	64.70	9.63	0.00	55.07	4,700	<2,000	--	190	18	140	190	640	250	<1.5	<1.5	22	<150	<15
	07/06/04					Well destroyed in preparation for excavation activities													
MW-3	2/21/01	99.33	7.07	0.00	92.26	<50	<50	<50	<0.3	<0.3	<0.3	<0.6	<2.0	<500	<0.5	<0.5	<0.5	--	--
	5/4/01	99.33	7.20	0.00	92.13	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	7.6	<500	<0.5	<0.5	<0.5	--	--
	8/3/01	99.33	8.99	0.00	90.34	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	16	<5	<0.5	<0.5	2.7	--	--
	11/28/01	99.33	7.40	0.00	91.93	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	12	<5	<0.5	<0.5	3.5	<120	<5
	1/14/02	99.33	5.34	0.00	93.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	99.33	6.47	0.00	92.86	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	6.8	<5	<0.5	<0.5	1.2	<50	<5
	3/19/02	99.33	6.58	0.00	92.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	99.33	7.50	0.00	91.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	66.24	9.35	0.00	56.89	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	3.3	<5	<0.5	<0.5	<0.5	<50	<5
	10/24/02	66.24	13.73	0.00	52.51	<50	<50	--	<0.5	<0.5	<0.5	<0.5	5.6	<5	<0.5	<0.5	<0.5	<50	<5

Table 1
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Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-3	1/23/03	66.24	8.26	0.00	57.98	<50	<50	--	<0.5	<0.5	<0.5	<0.5	2.9	<5	<0.5	<0.5	<0.5	<50	<5
	4/16/03	66.24	7.80	0.00	58.44	<50	200	--	<0.5	<0.5	<0.5	<0.5	1.9	<5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	66.24	10.78	0.00	55.46	<50	68	--	<0.5	<0.5	<0.5	<0.5	1.6	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	66.24	14.55	0.00	51.69	<50	85	--	<0.5	<0.5	<0.5	<0.5	2	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	66.24	8.49	0.00	57.75	<50	96	--	<0.5	<0.5	<0.5	<0.5	1.7	<5	<0.5	<0.5	<0.5	<50	<5
	4/12/04	66.24	9.40	0.00	56.84	<50	97	--	<0.5	<0.5	<0.5	<0.5	1.2	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	66.24	11.67	0.00	54.57	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.4	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	66.24	13.59	0.00	52.65	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.5	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	66.24	8.76	0.00	57.48	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	0.93	<5	<0.5	<0.5	<0.5	--	--
MW-4	11/28/01	98.60	9.05	0.00	89.55	3,000	<700	<100	46	2.1	37	87	140	34	<0.5	<0.5	<0.5	<50	<5
	1/14/02	98.60	6.39	0.00	92.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	98.60	6.55	0.00	92.05	14,000	<1,200	<100	67	6.8	170	170	160	41	<2	<2	<2	<300	<20
	3/19/02	98.60	7.01	0.00	91.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	98.60	7.42	0.00	91.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	65.51	9.45	0.00	56.06	3,700	<1,000	<100	24	2	48	27	120	28	<0.5	<0.5	<0.5	<50	<10
	10/24/02	65.51	12.93	0.00	52.58	1,900	<400	--	16	1.1	9.1	6	82	18	<0.5	<0.5	<0.5	<100	<5
	1/23/03	65.51	8.33	0.00	57.18	3,300	<1,000	--	12	1.1	41	14	160	30	<0.5	<0.5	<0.5	<50	<5
	4/16/03	65.51	8.01	0.00	57.50	4,300	<1,000	--	7.5	2	110	29	58	8.8	<0.5	<0.5	<0.5	<50	<15
	7/7/03	65.51	10.25	0.00	55.26	2,000	<500	--	3.5	1.1	27	6.5	77	9.9	<0.5	<0.5	<0.5	<50	<5
	10/15/03	65.51	13.46	0.00	52.05	1,200	<300	--	2.2	0.5	13	2.7	33	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	65.51	8.38	0.00	57.13	1,800	<600	--	1.7	0.71	15	4.5	73	7.9	<0.5	<0.5	<0.5	<50	<8
	4/12/04	65.51	8.99	0.00	56.52	2,900	<1,500	--	1.2	1.3	24	8.3	29	<5	<0.5	<0.5	<0.5	<50	<10
	07/06/05					Well destroyed in preparation for excavation activities													
MW-5	11/28/01	98.47	6.49	0.00	91.98	<50	58	<100	1.2	<0.5	<0.5	<0.5	30	11	<0.5	<0.5	5.5	<200	<5
	1/14/02	98.47	3.71	0.00	94.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	98.47	5.78	0.00	92.69	560	<200	<100	46	0.52	1.3	0.63	150	15	<0.5	<0.5	20	<50	<5.0
	3/19/02	98.47	6.23	0.00	92.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	98.47	7.48	0.00	90.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	65.37	10.07	0.00	55.30	<50	110	<100	<0.5	<0.5	<0.5	<0.5	41	<5	<0.5	<0.5	2.5	<50	<5
	10/24/02	65.37	13.20	0.00	52.17	<50	150	--	<0.5	<0.5	<0.5	<0.5	100	14	<0.5	<0.5	3.6	<100	<5.0
	1/23/03	65.37	8.96	0.00	56.41	<50	78	--	<0.5	<0.5	<0.5	<0.5	2.8	<5	<0.5	<0.5	<0.5	210	17
	4/16/03	65.37	8.21	0.00	57.16	<50	540	--	<0.5	<0.5	<0.5	<0.5	3.7	<5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	65.37	10.83	0.00	54.54	<50	220	--	<0.5	<0.5	<0.5	<0.5	2.2	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	65.37	13.64	0.00	51.73	<50	800	--	<0.5	<0.5	<0.5	<0.5	17	<5	<0.5	<0.5	<0.5	<50	13
	1/29/04	65.37	8.56	0.00	56.81	<50	600	--	<0.5	<0.5	<0.5	<0.5	20	<5	<0.5	<0.5	0.71	<50	<5
	4/12/04	65.37	9.64	0.00	55.73	<50	350	--	<0.5	<0.5	<0.5	<0.5	1.7	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	65.37	11.41	0.00	53.96	<50	<50	--	<0.5	<0.5	<0.5	<0.5	2.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	65.37	12.91	0.00	52.46	<50	<50	--	<0.5	<0.5	<0.5	<0.5	9.7	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	65.37	8.84	0.00	56.53	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	7.2	<5	<0.5	<0.5	<0.5	--	--
MW-6	11/28/01	95.07	6.30	0.00	88.77	<500	<50	<100	38	<5	<5	<5	1,800	1,000	<5	<5	17	<3,200	<50
	1/14/02	95.07	4.48	0.00	90.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	95.07	4.68	0.00	90.39	<200	<50	<100	12	<2	<2	<2	820	310	<2	<2	16	<200	<20
	3/19/02	95.07	4.89	0.00	90.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	95.07	5.84	0.00	89.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	61.99	7.47	0.00	54.52	<250	<50	<100	10	<2.5	<2.5	<2.5	980	400	<2.5	<2.5	15	<1,000	<25
	10/24/02	61.99	10.02	0.00	51.97	<500	<50	--	<5	<5	<5	<5	1,400	400	<5	<5	16	<500	<50
	1/23/03	61.99	6.50	0.00	55.49	<200	68	--	<2	<2	<2	<2	720	240	<2	<2	12	<200	<20
	4/16/03	61.99	5.77	0.00	56.22	<200	350	--	2.6	<2	<2	<2	1,000	320	<2	<2	17	<200	<20
	7/7/03	61.99	8.02	0.00	53.97	<200	140	--	<2	<2	<2	<2	860	210	<2	<2	9.8	<200	<20

Table 1
Groundwater Elevations and Analytical Results
Dave's 76
1666 Main Street
Fortuna , California
Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-6	10/15/03	61.99	10.47	0.00	51.52	<50	150	--	<0.5	<0.5	<0.5	<0.5	350	89	<0.5	<0.5	3.8	<50	<5
	1/29/04	61.99	6.43	0.00	55.56	<50	210	--	<0.5	<0.5	<0.5	<0.5	260	44	<0.5	<0.5	3	<50	<5
	4/12/04	61.99	7.19	0.00	54.80	<50	110	--	<0.5	<0.5	<0.5	<0.5	230	<5	<0.5	<0.5	2.6	<50	<5
	07/06/04	61.99	8.46	0.00	53.53	<50	<50	--	<0.5	<0.5	<0.5	<0.5	130	<5	<0.5	<0.5	1.3	<50	<5
	10/04/04	61.99	9.72	0.00	52.27	<50	<50	--	<0.5	<0.5	<0.5	<0.5	89	<5	<0.5	<0.5	0.65	--	--
	01/05/05	61.99	6.57	0.00	55.42	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	81	<5	<0.5	<0.5	0.55	--	--
MW-7	11/28/01	97.90	8.51	0.00	89.39	15,000	<1,100	<100	4,200	83	830	700	4,900	2,100	<20	<20	83	<12,000	<200
	1/14/02	95.07	6.64	0.00	88.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	95.07	6.99	0.00	88.08	11,000	<1,000	<100	2,400	46	410	230	2,700	710	<10	<10	37	<1,100	<100
	3/19/02	95.07	7.17	0.00	87.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	95.07	8.04	0.00	87.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	64.79	9.79	0.00	55.00	9,700	<500	<100	1,900	36	350	150	2,400	670	<5	<5	30	<2,000	<100
	10/24/02	64.79	12.59	0.00	52.20	12,000	<1,300	--	3,900	39	470	100	4,300	1,100	<20	<20	58	<2,000	<250
	1/23/03	64.79	8.85	0.00	55.94	8,500	<2,000	--	1,400	25	400	140	1,900	530	<5	<5	27	<500	<50
	4/16/03	64.79	8.04	0.00	56.75	7,300	<1,500	--	1,300	24	210	59	2,200	600	<10	<10	27	<1,000	<100
	7/7/03	64.79	10.40	0.00	54.39	14,000	<3,000	--	1,300	33	480	580	2,300	610	<5	<5	31	<500	<50
	10/15/03	64.79	13.15	0.00	51.64	12,000	<4,000	--	1,700	21	340	420	3,300	380	<5	<5	31	<500	<50
	1/28/04	64.79	8.87	0.00	55.92	24,000	<4,000	--	890	20	700	1,300	1,600	480	<5	<5	23	<500	<50
	4/12/04	64.79	9.50	0.00	55.29	15,000	<3,000	--	730	25	520	900	1,400	400	<0.5	<0.5	18	<200	<20
	07/06/04	64.79	10.97	0.00	53.82	14,000	<4,000	--	760	20	450	570	1,300	470	<3	<3	23	<400	<50
	10/04/04	64.79	12.38	0.00	52.41	13,000	<3,000	--	1,000	14	300	340	2,200	640	<5	<5	32	--	--
	01/05/05	64.79	8.33	0.00	56.46	17,000	<1,000[1]	--	230	4.6	290	610	920	290	<1.5	<1.5	13	--	--
MW-8	11/28/01	99.55	4.18	0.00	95.37	<50	60	<100	<0.5	<0.5	<0.5	<0.5	24	<5	<0.5	<0.5	4.6	<100	<5
	1/14/02	99.55	2.89	0.00	96.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/02	99.55	2.74	0.00	96.81	<50	89	<100	<0.5	<0.5	<0.5	<0.5	12	<5	<0.5	<0.5	2	<50	39
	3/19/02	99.55	2.89	0.00	96.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/11/02	99.55	3.96	0.00	95.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	(6/14/02)	66.43	5.89	0.00	60.54	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	7.3	<5	<0.5	<0.5	0.78	<50	<5
	10/24/02	66.43	13.19	0.00	53.24	<50	630	<100	<0.5	<0.5	<0.5	<0.5	5	<5	<0.5	<0.5	<0.5	<50	<5
	1/23/03	66.43	2.00	0.00	64.43	<50	230	<100	<0.5	<0.5	<0.5	<0.5	3.1	<5	<0.5	<0.5	<0.5	140	6.4
	4/16/03	66.43	0.96	0.00	65.47	<50	1,100	1,200	<0.5	<0.5	<0.5	<0.5	1	<5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	66.43	4.60	0.00	61.83	<50	240	170	<0.5	<0.5	<0.5	<0.5	2.2	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	66.43	10.92	0.00	55.51	60	580	700	<0.5	<0.5	<0.5	<0.5	2.1	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	66.43	0.77	0.00	65.66	<50	600	510	<0.5	<0.5	<0.5	<0.5	1.1	<5	<0.5	<0.5	<0.5	<50	<5
	4/12/04	66.43	2.15	0.00	64.28	<50	600	780	<0.5	<0.5	<0.5	<0.5	0.6	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	66.43	4.80	0.00	61.63	<50	60	<100	<0.5	<0.5	<0.5	<0.5	1	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	66.43	9.49	0.00	56.94	<50	120	110	<0.5	<0.5	<0.5	<0.5	0.91	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	66.43	0.98	0.00	65.45	<50	1,001	1,401	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
MW-9	(6/14/02)	66.04	9.59	0.00	56.45	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/24/02	66.04	13.39	0.00	52.65	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	1/23/03	66.04	8.21	0.00	57.83	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	4/16/03	66.04	7.43	0.00	58.61	<50	84	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	66.04	10.41	0.00	55.63	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	66.04	13.79	0.00	52.25	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	1/28/04	66.04	8.36	0.00	57.68	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	4/12/04	66.04	8.93	0.00	57.11	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	66.04	11.28	0.00	54.76	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	66.04	13.18	0.00	52.86	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	66.04	7.92	0.00	58.12	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--

Table 1
Groundwater Elevations and Analytical Results
Dave's 76
1666 Main Street
Fortuna , California
Project No. NC-20

Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-10	(6/14/02)	64.15	7.99	0.00	56.16	**110**	<50	<100	<0.5	<0.5	<0.5	<0.5	**18**	**27**	<0.5	<0.5	<0.5	<50	<5
	10/24/02	64.15	12.03	0.00	52.12	**160**	<50	--	<0.5	<0.5	<0.5	<0.5	**69**	**55**	<0.5	<0.5	<0.5	<50	<5
	1/23/03	64.15	8.37	0.00	55.78	**200**	<50	--	<0.5	<0.5	<0.5	<0.5	**82**	**64**	<0.5	<0.5	<0.5	**150**	<5
	4/16/03	64.15	7.63	0.00	56.52	**260**	**200**	--	<0.5	<0.5	<0.5	<0.5	**110**	**61**	<0.5	<0.5	<0.5	<50	<5
	7/7/03	64.15	9.88	0.00	54.27	**72**	**88**	--	<0.5	<0.5	<0.5	<0.5	**84**	**44**	<0.5	<0.5	**0.55**	<50	<5
	10/15/03	64.15	12.47	0.00	51.68	<50	**79**	--	<0.5	<0.5	<0.5	<0.5	**89**	**32**	<0.5	<0.5	**0.58**	<50	<5
	1/28/04	64.15	8.32	0.00	55.83	<50	**97**	--	<0.5	<0.5	<0.5	<0.5	**98**	**24**	<0.5	<0.5	**0.57**	<50	<5
	4/12/04	64.15	9.04	0.00	55.11	<50	**96**	--	<0.5	<0.5	<0.5	<0.5	**82**	**23**	<0.5	<0.5	**0.63**	<50	<5
	07/06/04	64.15	10.40	0.00	53.75	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**100**	**14**	<0.5	<0.5	**0.76**	<50	<5
	10/04/04	64.15	11.75	0.00	52.40	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**84**	**13**	<0.5	<0.5	<0.5	--	--
	01/05/05	64.15	8.37	0.00	55.78	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	**65**	**7.5**	<0.5	<0.5	<0.5	--	--
MW-11	(6/14/02)	64.15	9.63	0.00	54.52	<50	<50	<100	**3**	<0.5	<0.5	<0.5	**76**	**13**	<0.5	<0.5	**6.9**	<100	<5
	10/24/02	64.15	12.19	0.00	51.96	<50	<50	--	**1.6**	<0.5	<0.5	<0.5	**71**	**9.2**	<0.5	<0.5	**4.7**	<50	<5
	1/23/03	64.15	8.64	0.00	55.51	<50	**57**	--	<0.5	<0.5	<0.5	<0.5	**11**	<5	<0.5	<0.5	**0.62**	<50	<5
	4/16/03	64.15	7.90	0.00	56.25	<50	**180**	--	<0.5	<0.5	<0.5	<0.5	**8.7**	<5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	64.15	10.13	0.00	54.02	<50	**66**	--	<0.5	<0.5	<0.5	<0.5	**9.7**	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	64.15	12.64	0.00	51.51	<50	**64**	--	<0.5	<0.5	<0.5	<0.5	**15**	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	64.15	8.57	0.00	55.58	<50	**93**	--	<0.5	<0.5	<0.5	<0.5	**8.4**	<5	<0.5	<0.5	<0.5	<50	<5
	4/12/04	64.15	9.37	0.00	54.78	<50	**83**	--	<0.5	<0.5	<0.5	<0.5	**11**	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	64.15	10.65	0.00	53.50	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**13**	<5	<0.5	<0.5	**0.51**	<50	<5
	10/04/04	64.15	11.90	0.00	52.25	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**28**	<5	<0.5	<0.5	**0.68**	--	--
	01/05/05	64.15	8.70	0.00	55.45	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	**9.6**	<5	<0.5	<0.5	**0.68**	--	--
MW-12	(6/14/02)	60.73	6.92	0.00	53.81	<200	<50	<100	<2	<2	<2	<2	**660**	**330**	<2	<2	**8.8**	<500	<20
	10/24/02	60.73	8.87	0.00	51.86	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	1/23/03	60.73	6.15	0.00	54.58	<50	**68**	--	<0.5	<0.5	<0.5	<0.5	**730**	**240**	<0.5	<0.5	**11**	<50	<5
	4/16/03	60.73	5.71	0.00	55.02	<200	**250**	--	**2**	<2	<2	<2	**730**	**230**	<0.5	<0.5	**11**	<200	<20
	7/7/03	60.73	7.33	0.00	53.40	<100	**79**	--	<0.5	<0.5	<0.5	<0.5	**500**	**140**	<0.5	<0.5	**8.1**	<50	<5
	10/15/03	60.73	9.35	0.00	51.38	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	60.73	6.19	0.00	54.54	<50	**91**	--	<0.5	<0.5	<0.5	<0.5	**710**	**87**	<0.5	<0.5	**11**	**89**	<5
	4/12/04	60.73	6.84	0.00	53.89	<200	**91**	--	<1.5	<1.5	<1.5	<1.5	**560**	<20	<1.5	<1.5	**7.8**	<200	<20
	07/06/04	60.73	7.66	0.00	53.07	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**290**	<5	<0.5	<0.5	**4**	<50	<5
	10/04/04	60.73	8.41	0.00	52.32	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	60.73	6.51	0.00	54.22	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	**180**	<5	<0.5	<0.5	**3.2**	--	--
MW-13	(10/24/02)	63.18	11.64	0.00	51.54	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**99**	**39**	<0.5	<0.5	<0.5	<50	<5
	1/23/03	63.18	8.16	0.00	55.02	<50	**54**	--	<0.5	<0.5	<0.5	<0.5	**13**	<0.5	<0.5	<0.5	<0.5	<50	<5
	4/16/03	63.18	7.31	0.00	55.87	<50	**130**	--	<0.5	<0.5	<0.5	<0.5	**4.4**	<0.5	<0.5	<0.5	<0.5	<50	<5
	7/7/03	63.18	9.78	0.00	53.40	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**7.4**	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	63.18	12.09	0.00	51.09	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**12**	<5	<0.5	<0.5	<0.5	<50	<5
	1/29/04	63.18	7.90	0.00	55.28	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**5.2**	<5	<0.5	<0.5	<0.5	<50	<5
	4/12/04	63.18	8.97	0.00	54.21	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**3.9**	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	63.18	10.13	0.00	53.05	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**7.3**	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	63.18	11.38	0.00	51.80	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**15**	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	63.18	8.20	0.00	54.98	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	**4**	<5	<0.5	<0.5	<0.5	--	--

Table 1
Groundwater Elevations and Analytical Results
Dave's 76
1666 Main Street
Fortuna , California
Project No. NC-20

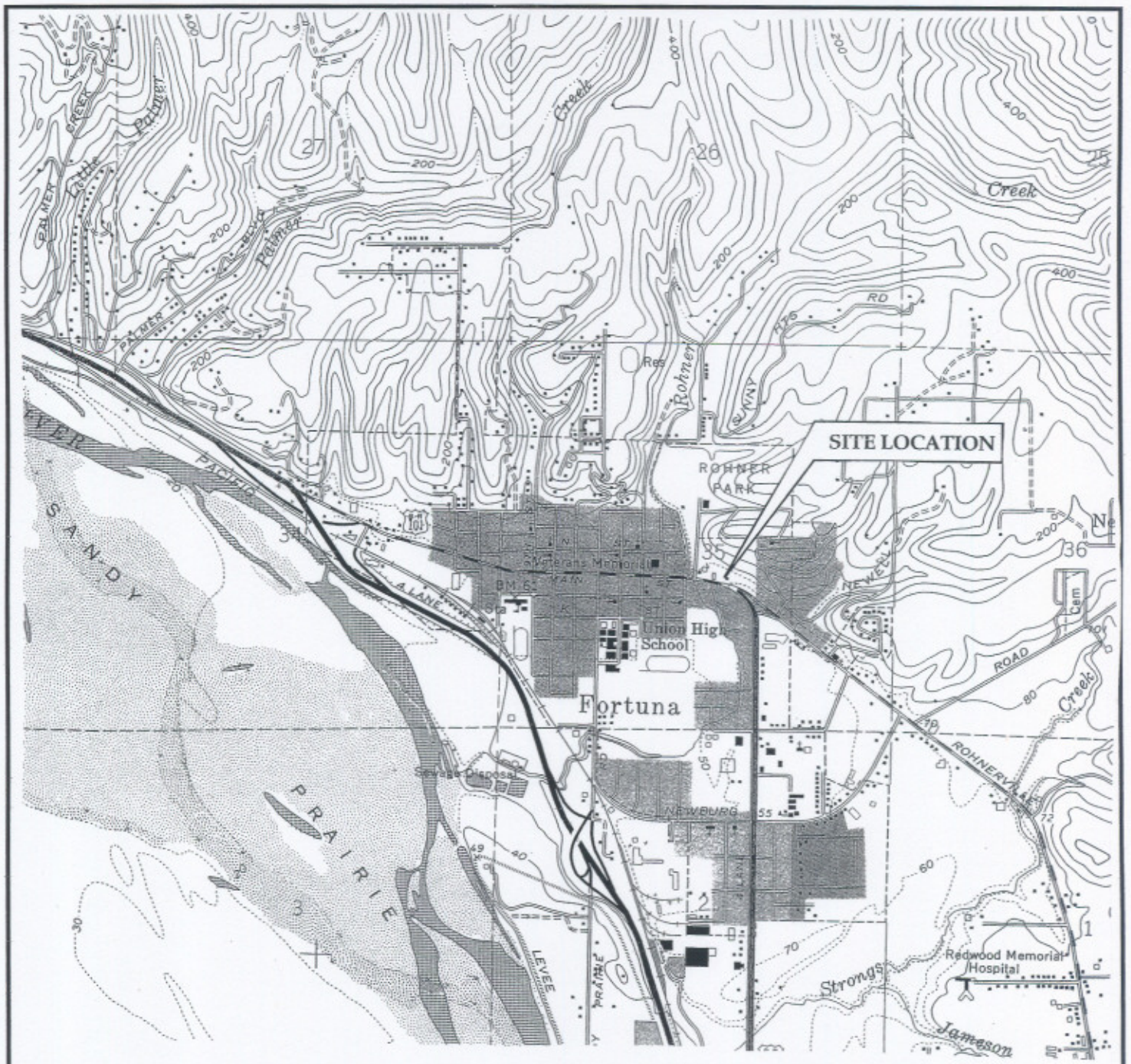
Well Name	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-14	(10/24/02)	60.64	9.04	0.00	51.60	<100	<50	--	<1	<1	<1	<1	**550**	**230**	<1	<1	**6.7**	<100	<10
	1/23/03	60.64	8.72	0.00	51.92	<50	<50	--	<1	<1	<1	<1	**250**	**100**	<0.5	<0.5	**2.7**	<50	<5
	4/16/03	60.64	4.91	0.00	55.73	<50	**130**	--	<0.5	<0.5	<0.5	<0.5	**590**	**230**	<0.5	<0.5	**6.8**	<50	<5
	7/7/03	60.64	7.33	0.00	53.31	<100	**54**	--	<1	<1	<1	<1	**580**	**210**	<1	<1	**6.4**	<50	<5
	10/15/03	60.64	9.61	0.00	51.03	<200	**72**	--	<1.5	<1.5	<1.5	<1.5	**700**	**270**	<1.5	<1.5	**9.6**	<200	<20
	1/28/04	60.64	5.47	0.00	55.17	<100	**110**	--	<1	<1	<1	<1	**520**	**190**	<1	<1	**6.1**	<100	<10
	4/12/04	60.64	6.53	0.00	54.11	<50	**87**	--	<0.5	<0.5	<0.5	<0.5	**240**	**76**	<0.5	<0.5	**2**	<50	<5
	07/06/04	60.64	7.68	0.00	52.96	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**510**	**180**	<0.5	<0.5	**6.4**	<50	<5
	10/04/04	60.64	8.90	0.00	51.74	<100	<50	--	<1	<1	<1	<1	**480**	<10	<1	<1	**6.1**	--	--
	01/05/05	60.64	5.79	0.00	54.85	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	**160**	<5	<0.5	<0.5	**2.8**	--	--
MW-15	06/10/03	61.56	8.34	0.00	53.22	<500	**92**	--	<5	<5	<5	<5	**1,700**	**570**	<5	<5	**14**	<500	<50
	10/15/03	61.56	10.64	0.00	50.92	<250	**120**	--	<2.5	<2.5	<2.5	<2.5	**1,500**	**480**	<2.5	<2.5	**8.2**	<250	<25
	01/29/04	61.56	6.30	0.00	55.26	<250	**110**	--	<2.5	<2.5	<2.5	<2.5	**1,400**	**380**	<2.5	<2.5	**12**	<250	<25
	04/12/04	61.56	7.48	0.00	54.08	<300	**56**	--	<3	<3	<3	<3	**1,200**	**360**	<3	<3	**9.8**	<300	<30
	07/06/04	61.56	8.67	0.00	52.89	<200	<50	--	<2	<2	<2	<2	**750**	**280**	<2	<2	**7.5**	<200	<20
	10/04/04	61.56	9.99	0.00	51.57	<200	<50	--	<1.5	<1.5	<1.5	<1.5	**660**	**180**	<1.5	<1.5	**6.4**	--	--
	01/05/05	61.56	6.61	0.00	54.95	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	**500**	**180**	<0.5	<0.5	**6**	--	--
MW-16	06/10/03	60.87	7.67	0.00	53.20	<50	**68**	--	<0.5	<0.5	<0.5	<0.5	**92**	**38**	<0.5	<0.5	**0.6**	<50	<5
	10/15/03	60.87	9.98	0.00	50.89	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**170**	**68**	<0.5	<0.5	**1.9**	<50	<5
	01/28/04	60.87	5.63	0.00	55.24	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**180**	**78**	<0.5	<0.5	**2**	<50	<5
	04/12/04	60.87	6.83	0.00	54.04	<50	**71**	--	<0.5	<0.5	<0.5	<0.5	**97**	**47**	<0.5	<0.5	**1.2**	<50	<5
	07/06/04	60.87	8.02	0.00	52.85	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**180**	**86**	<0.5	<0.5	**2.2**	<50	<5
	10/04/04	60.87	9.31	0.00	51.56	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**320**	**77**	<0.5	<0.5	**3.5**	--	--
	01/05/05	60.87	5.98	0.00	54.89	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	**150**	<5	<0.5	<0.5	**2**	--	--
MW-17	06/10/03	60.31	6.38	0.00	53.93	<50	**71**	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	60.31	8.38	0.00	51.93	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	01/28/04	60.31	5.19	0.00	55.12	<50	**59**	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	04/12/04	60.31	5.46	0.00	54.85	<50	**65**	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	07/06/04	60.31	6.37	0.00	53.94	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<50	<5
	10/04/04	60.31	8.30	0.00	52.01	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
	01/05/05	60.31	4.19	0.00	56.12	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--	--
MW-18	06/10/03	60.36	7.27	0.00	53.09	<50	**70**	--	<0.5	<0.5	<0.5	<0.5	**120**	<5	<0.5	<0.5	<0.5	<50	<5
	10/15/03	60.36	9.56	0.00	50.80	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**71**	**37**	<0.5	<0.5	**0.78**	<50	<5
	01/28/04	60.36	5.11	0.00	55.25	<50	**57**	--	<0.5	<0.5	<0.5	<0.5	**290**	**130**	<0.5	<0.5	**2.4**	<50	<5
	04/12/04	60.36	6.36	0.00	54.00	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**280**	**150**	<0.5	<0.5	**2.6**	73	<5
	07/06/04	60.36	7.59	0.00	52.77	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**310**	**70**	<0.5	<0.5	**2.9**	<50	<5
	10/04/04	60.36	8.94	0.00	51.42	<50	<50	--	<0.5	<0.5	<0.5	<0.5	**300**	<5	<0.5	<0.5	**2.7**	--	--
	01/05/05	60.36	5.44	0.00	54.92	<50	<50[1]	--	<0.5	<0.5	<0.5	<0.5	**320**	<5	<0.5	<0.5	**4.4**	--	--
					MCL	--	--	--	1	150	700	1,750	5						
					Taste & odor threshold	5	100	--	--	42	29	17	5						
					NCRWQCB Cleanup Goals	<50	100	--	0.50	42	29	17	5						

Notes :
TOC: Top of well casing referenced to mean sea level (msl).
DTW: Depth to water as referenced to top of casing.
SPH: Separate phase hydrocarbon on top of groundwater.
GWE: Groundwater elevation as referenced to benchmark.
µg/l = parts per billion
MCL: maximum contaminant level, a drinking water standard
TPHg: Total Petroleum Hydrocarbons as Gasoline by EPA Method 5030/8260B
TPHd: Total Petroleum Hydrocarbons as Dieselby EPA Method 3510/8015M
TPHmo: Total Petroleum Hydrocarbons as Motor Oil EPA Method 3510/8015M
--: Not analyzed, available, or applicable
NCRWQCB: North Coast Regional Water Quality Control Board
MW: Monitoring Well
1. Laboratory analysis for diesel and/or motor oil was performed using silica gel cleanup

Benzene by EPA Method 8260B
Toluene by EPA Method 8260B
Ethylbenzene by EPA Method 8260B
Xylenes by EPA Method 8260B
MTBE: Methyl tertiary butyl ether by EPA method 8260B
TBA: Tertiary butyl alcohol by EPA method 8260B
DIPE: Di-isopropyl ether by EPA method 8260B
ETBE: Ethyl tertiary butyl ether by EPA method 8260B
TAME: Tertiary amyl methyl ether by EPA method 8260B
Methanol by Method 8260B
Ethanol by Method 8260B
Sample date in parentheses indicates new well survey per geotracker (NGS(PID#AC9252)"HPGN D CA 01 PB" Singley Rd)

Table 2
Monitoring Well Construction Details
Dave's 76
1666 Main Street
Fortuna , California
Project No. NC - 20

Monitoring Well Identification	Date Installed	Installed by	Casing Diameter (inches)	Total Depth (feet)	Blank Interval (feet)	Screened Interval (feet)	Slot Size (inches)	Filter Pack (feet)	Bentonite Seal (feet)	Cement (feet)
MW-1 (Destroyed)	2/14/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-2 (Destroyed)	2/14/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-3	2/14/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-4 (Destroyed)	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-5	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-6	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-7	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-8	11/15/01	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-9	6/10/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-10	6/10/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-11	6/10/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-12	6/10/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-13	10/11/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-14	10/11/02	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-15	6/10/03	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-16	6/10/03	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-17	6/10/03	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2
MW-18	6/10/03	Clearwater	2	25	0-5	5-25	0.02	4-25	2-4	0-2



SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

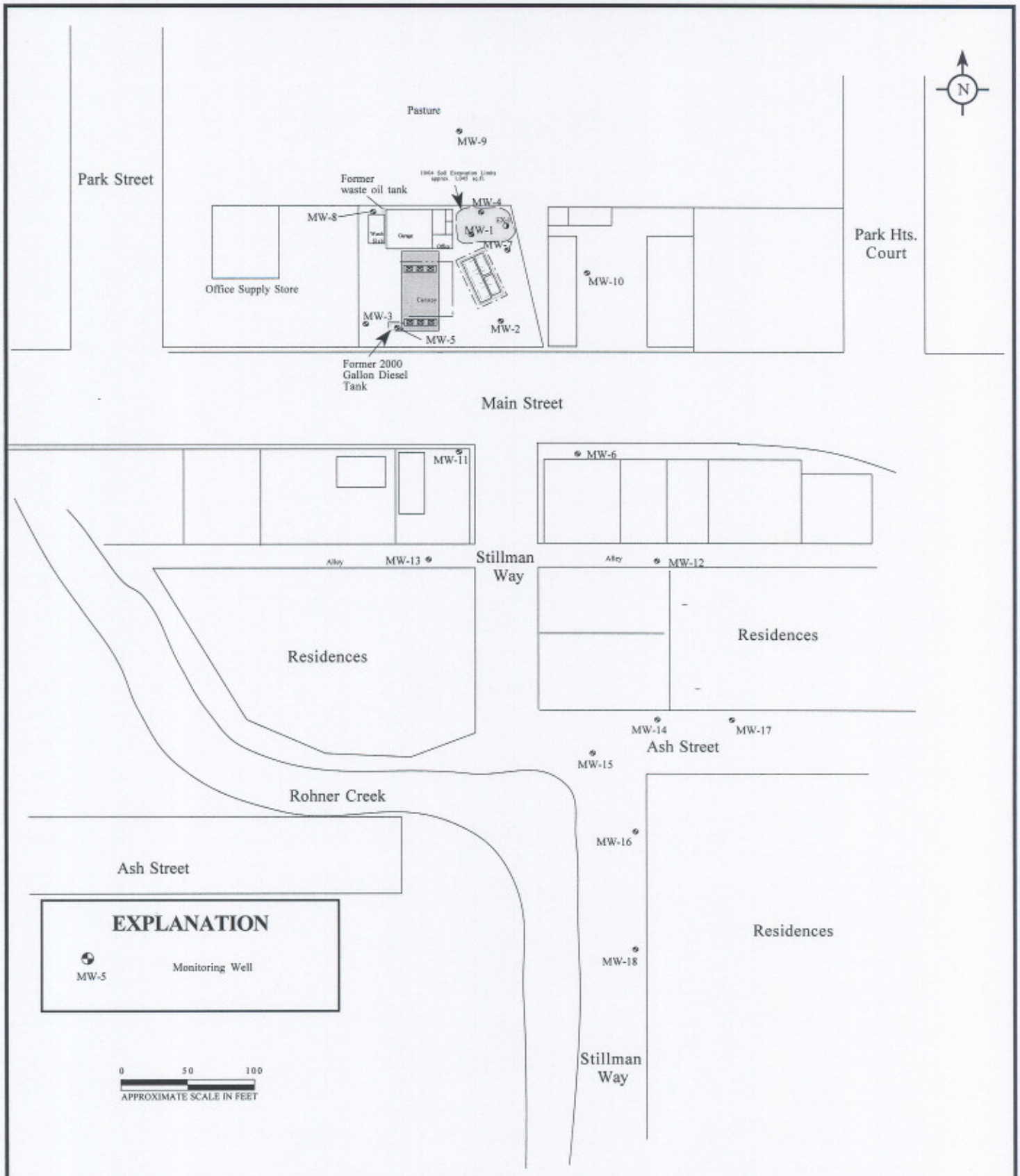
GN MN
0°46' 14 MILS
18½° 329 MILS

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Site Location Map
Dave's 76
1666 Main Street
Fortuna, California

BLUE ROCK ENVIRONMENTAL, INC.

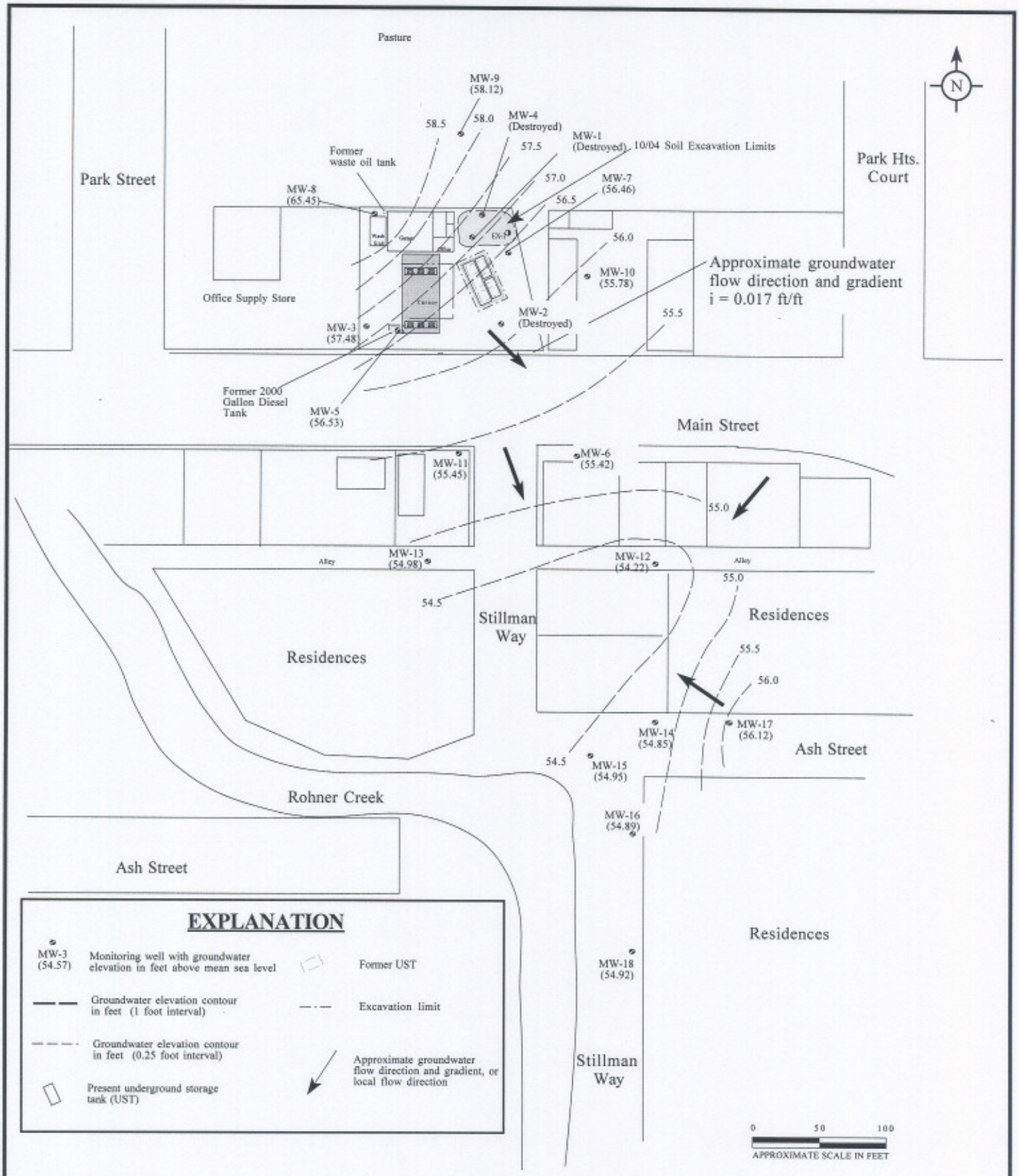
Project No.	Date	Figure
NC-20	1/05	1



Site Plan
Dave's 76
1666 Main Street
Fortuna, California

BLUE ROCK
ENVIRONMENTAL, INC.

Project No.	Date	Figure
NC-20	**1/05**	**2**

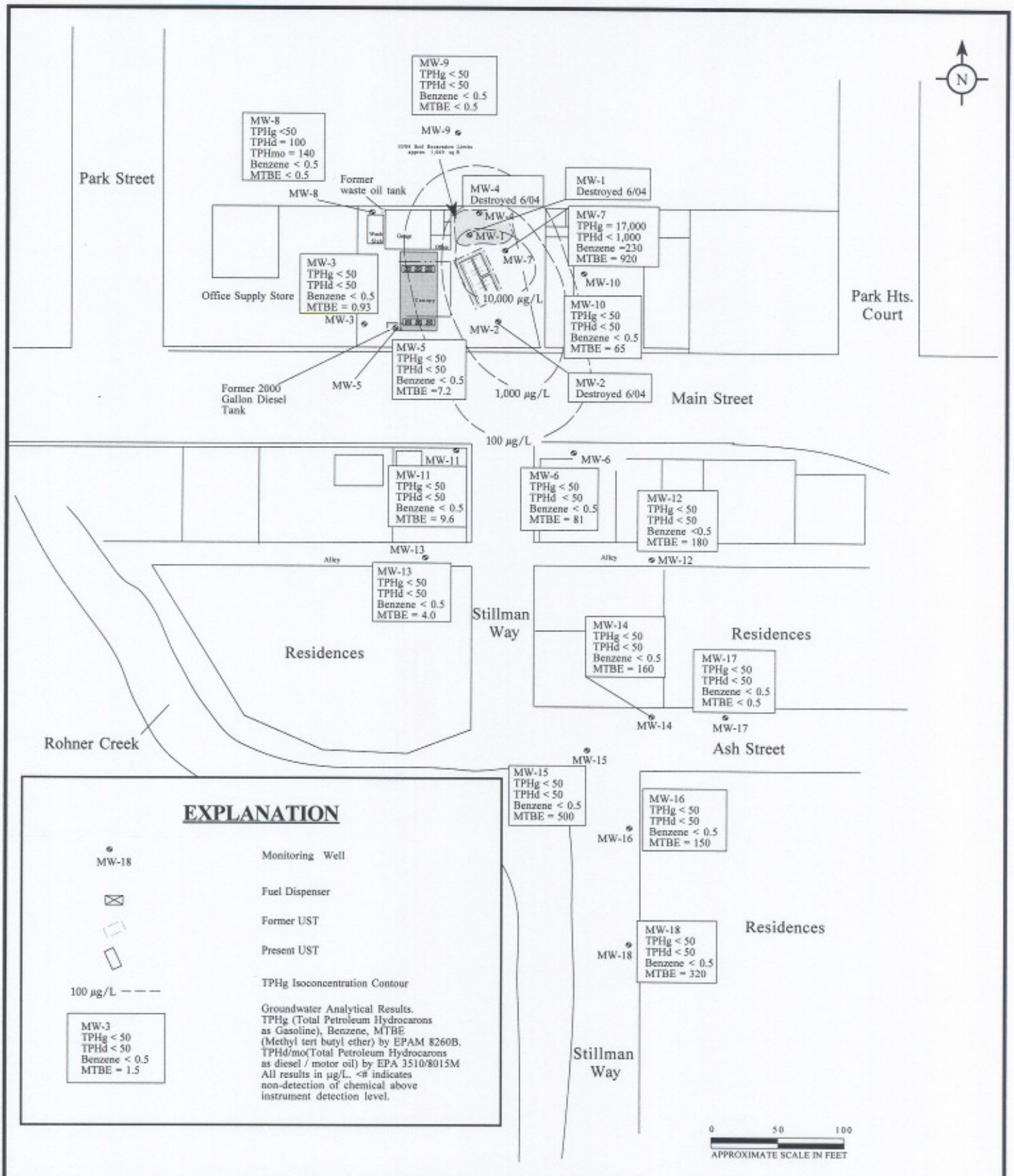


Groundwater Elevations and Gradient 1/5/04

Dave's 76
1666 Main Street
Fortuna, California

BLUE ROCK ENVIRONMENTAL, INC.

Project No.	Date	Figure
NC-20	1/05	3

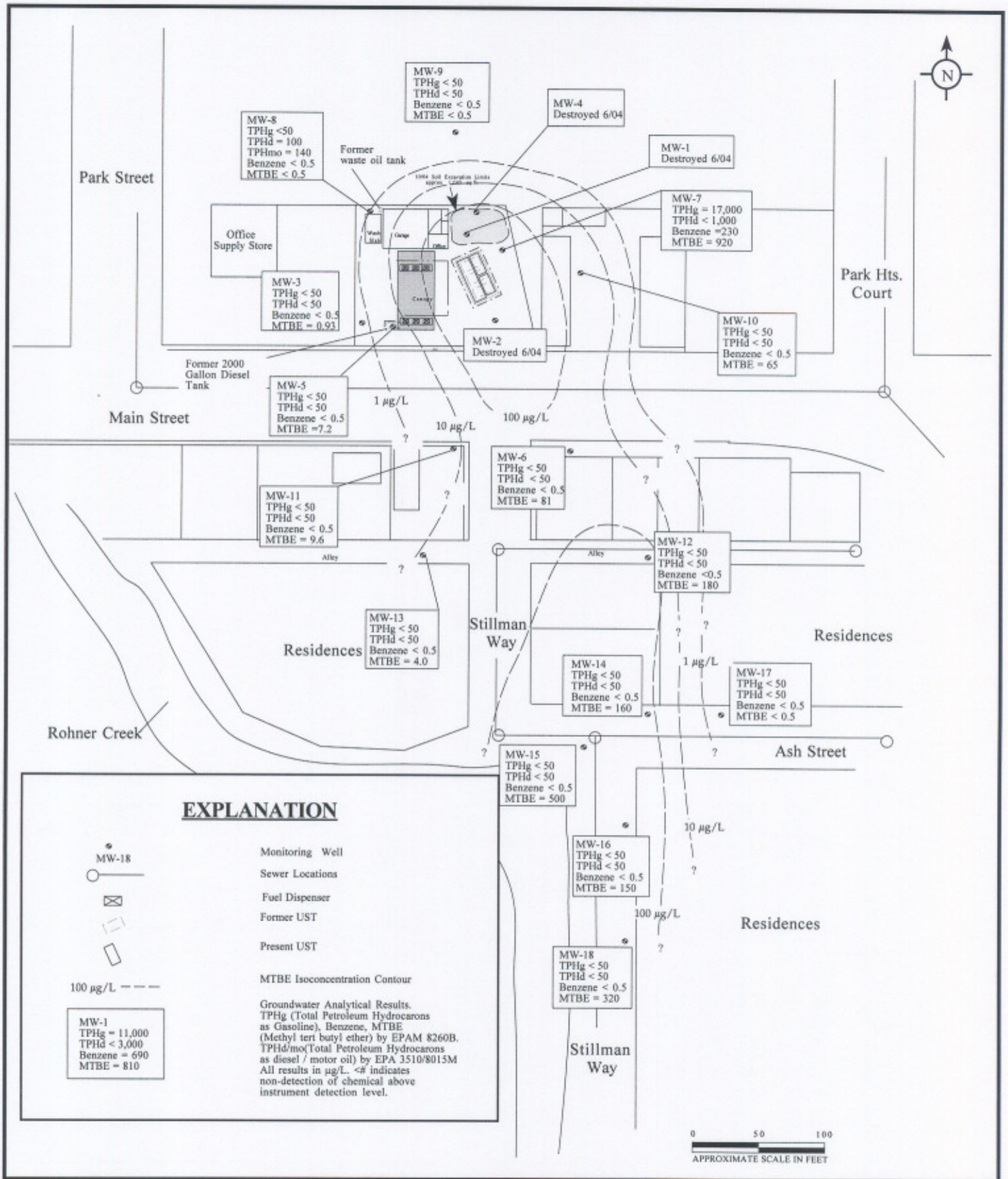


Dissolved-Phase TPHg Distribution 1/5/05 - 1/6/05

Dave's 76
1666 Main Street
Fortuna, California

BLUE ROCK ENVIRONMENTAL, INC.

Project No.	Date	Figure
NC-20	1/05	4

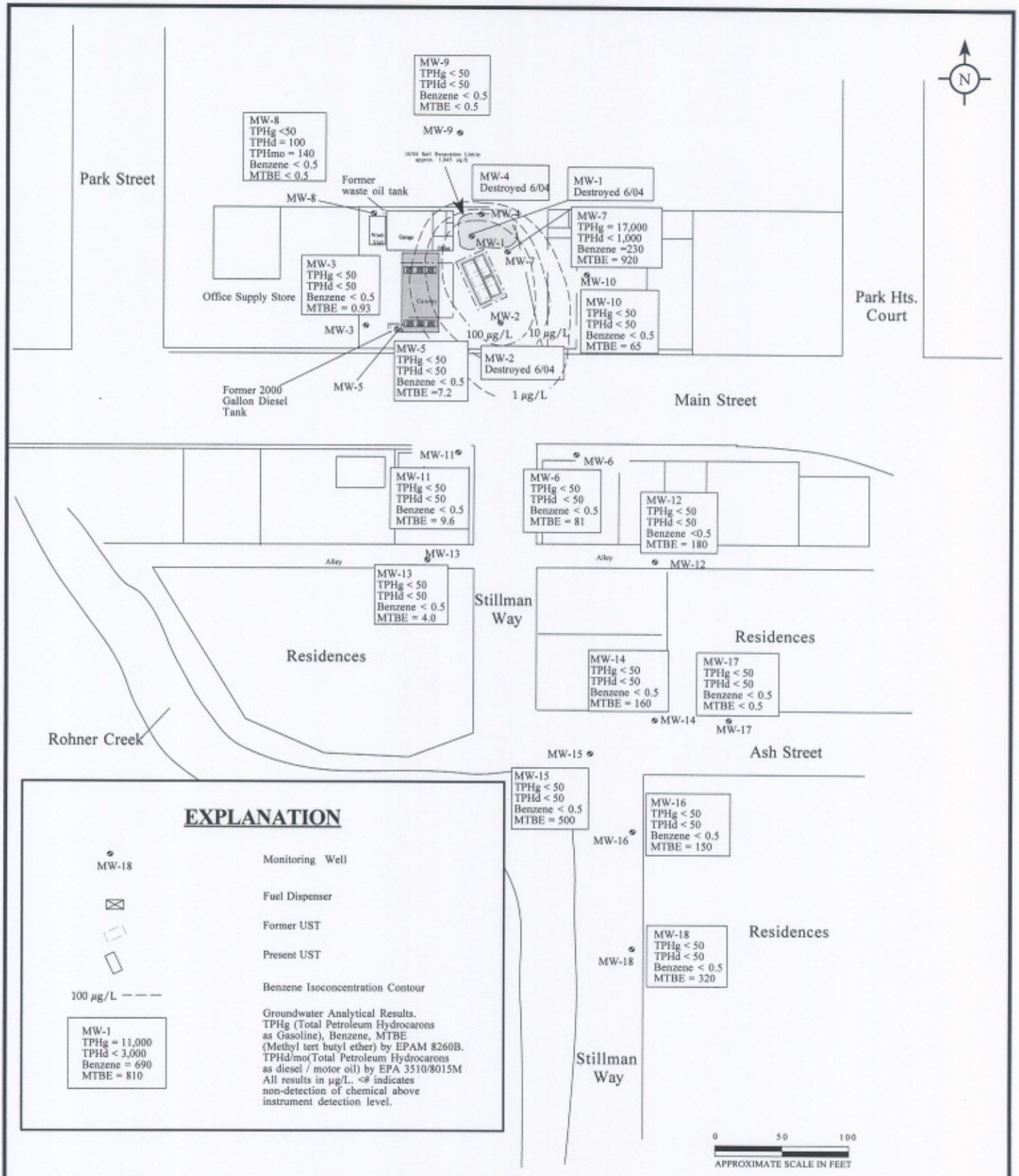


Dissolved-Phase MTBE Distribution 1/5/05 - 1/6/05

Dave's 76
1666 Main Street
Fortuna, California

BLUE ROCK ENVIRONMENTAL, INC.

Project No.	Date	Figure
NC-20	1/05	5



Dissolved-Phase Benzene Distribution 1/5/05 - 1/6/05

Dave's 76
1666 Main Street
Fortuna, California

BLUE ROCK ENVIRONMENTAL, INC.

Project No.	Date	Figure
NC-20	1/05	6

GAUGING DATA/PURGE CALCULATIONS

Job No.: NC-20 **Location:** 1666 Main St. Fortuna **Date:** 1/5/04 **Tech(s):** M. Richard

WELL NO.	DIA. (in.)	DTB (ft.)	DTW (ft.)	ST (ft.)	CV (gal.)	PV (gal.)	SPH (ft.)	NOTES
MW-3	2"	19.84	8.76	11.08	1.77	5.32	~~0~~	
MW-5		22.29	8.84	13.45	2.15	6.46		
MW-6		21.96	6.57	15.39	2.46	7.39		
MW-7		24.26	8.33	15.93	2.55	7.65		
MW-8		24.43	0.98	23.45	3.75	11.26		
MW-9		24.71	7.92	16.79	2.69	8.06		
MW-10		23.56	8.37	15.19	2.43	7.29		
MW-11		24.18	8.70	15.48	2.48	7.43		
MW-12		24.02	6.51	17.51	2.80	8.40		
MW-13		23.42	8.20	15.22	2.44	7.31		
MW-14		23.53	5.79	17.74	2.84	8.52		
MW-15		23.81	6.61	17.20	2.75	8.26		
MW-16		20.38	5.98	14.40	2.30	6.91		
MW-17		24.95	4.19	20.76	3.32	9.96		
MW-18		19.18	5.44	13.74	2.20	6.60		

Explanation:

DIA. = Well Diameter
DTB = Depth to Bottom
DTW = Depth to Water
ST = Saturated Thickness (DTB-DTW)
CV = Casing Volume (ST x cf)
PV = Purge Volume (standard 3 x CV, well development 10 x CV)
SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.
4 in. dia. well cf = 0.65 gal./ft.
6 in. dia. well cf = 1.44 gal./ft.

BLUE ROCK ENVIRONMENTAL, INC.

PURGING DATA

Job No.: NC-20 **Location:** 1666 Main St. Fortuna **Date:** 1/5/04 **Tech:** M. Richard

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-3		0	---	---	---
Calc. purge	12:40	<1.00	0.30	60.5	5.98
volume	13:10	≈2.60	0.35	61.2	5.93
5.32	13:25	≈5.32	0.37	61.5	5.91

Sample for: TPHmo 7-oxygenates
TPHg TPHd (Si-gel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer / Pump/~~Disposable Bailer~~

COMMENTS: color, turbidity, recharge, sheen, odor
Clear to light brown | low to mod turb | fast recharge | no sheen | no odor

Sampling Method:
Dedicated / ~~Disposable bailer~~
Sample at: 13:30 1/6/05

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-5		0	---	---	---
Calc. purge	15:15	<1.00	0.33	61.0	6.08
volume	15:35	≈3.20	0.38	61.8	5.94
6.46	15:55	≈6.46	0.35	62.0	5.86

Sample for: TPHmo 7-oxygenates
TPHg TPHd (Si-gel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer/Pump/~~Disposable Bailer~~

COMMENTS: color, turbidity, recharge, sheen, odor
Clear to dark brown | low to mod turb | fast recharge | no sheen | no odor

Sampling Method:
Dedicated / ~~Disposable bailer~~
Sample at: 16:00 1/5/05

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-6		0	---	---	---
Calc. purge	10:40	<1.00	0.40	61.2	6.08
volume	11:10	≈3.70	0.44	61.6	5.99
7.39	11:25	≈7.39	0.45	61.8	5.95

Sample for: TPHmo 7-oxygenates
TPHg TPHd (Si-gel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer/Pump/~~Disposable Bailer~~

COMMENTS: color, turbidity, recharge, sheen, odor
Clear to light brown | low to mod turb | fast recharge | no sheen | no odor

Sampling Method:
Dedicated / ~~Disposable bailer~~
Sample at: 11:30 1/6/05

PURGING DATA

Job No.: NC-20 **Location:** 1666 Main St. Fortuna **Date:** 1/5/04 **Tech:** M. Richard

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-7		0	---	---	---
Calc. purge	16:15	<1.00	0.29	60.7	5.79
volume	16:35	≈3.80	0.34	61.5	5.68
7.65	16:55	≈7.65	0.38	61.8	5.61

COMMENTS: color, turbidity, recharge, sheen, odor

Clear to light brown	low to mod turb	fast recharge	no sheen	HC odor

Sample for: TPHmo (silica gel) 7-oxygenates
TPHg TPHd 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer / Pump/Disposable Bailer

Sampling Method:
Dedicated / Disposable bailer

Sample at: 17:00 1/5/05

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-8		0	---	---	---
Calc. purge	11:50	<1.00	0.15	53.6	6.25
volume	12:10	≈5.75	0.16	56.5	5.97
11.26	12:25	≈11.26	0.16	56.4	5.92

COMMENTS: color, turbidity, recharge, sheen, odor

Clear to light brown	low turb	fast recharge	no sheen	no odor

Sample for: TPHmo (silica gel) 7-oxygenates
TPHg TPHd (silica gel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer/Pump/Disposable Bailer

Sampling Method:
Dedicated / Disposable bailer

Sample at: 12:30 1/6/05

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-9		0	---	---	---
Calc. purge	14:15	<4.00	0.33	60.4	6.14
volume	14:35	≈4.00	0.37	61.1	6.03
8.06	14:55	≈8.06	0.38	61.5	5.98

COMMENTS: color, turbidity, recharge, sheen, odor

Clear to light brown	low to mod turb	fast recharge	no sheen	no odor

Sample for: TPHmo 7-oxygenates
TPHg TPHd (silica gel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer/Pump/Disposable Bailer

Sampling Method:
Dedicated / Disposable bailer

Sample at: 15:00 1/6/05

PURGING DATA

Job No.: NC-20 **Location:** 1666 Main St. Fortuna **Date:** 1/5/04 **Tech:** M. Richard

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-10		0	---	---	---
Calc. purge volume 7.29	7:50	<1.00	0.38	61.0	6.17
	8:10	≈3.60	0.46	61.6	5.95
	8:25	≈7.29	0.51	61.7	5.89

Sample for: TPHmo 7-oxygenates
TPHg TPHd (Si-gel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer / Pump/Disposable Bailer

Sampling Method:
Dedicated / Disposable bailer

Sample at: 8:30 1/6/05

COMMENTS: color, turbidity, recharge, sheen, odor
clear to light brown / low to mod turb / fast recharge / no sheen / no odor

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-11		0	---	---	---
Calc. purge volume 7.43	9:50	<1.00	0.38	60.6	6.20
	10:10	≈3.70	0.45	61.4	6.11
	10:25	≈7.43	0.49	61.7	6.08

Sample for: TPHmo 7-oxygenates
TPHg TPHd (Si-gel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer/Pump/Disposable Bailer

Sampling Method:
Dedicated / Disposable bailer

Sample at: 10:30 1/6/05

COMMENTS: color, turbidity, recharge, sheen, odor
clear to light brown / low to mod turb / fast recharge / no sheen / no odor

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-12		0	---	---	---
Calc. purge volume 8.40	14:15	<1.00	0.36	60.6	6.18
	14:35	≈4.20	0.40	61.2	6.07
	14:55	≈8.40	0.43	61.5	5.99

Sample for: TPHmo 7-oxygenates
TPHg TPHd (Si-gel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer/Pump/Disposable Bailer

Sampling Method:
Dedicated / Disposable bailer

Sample at: 15:00 1/5/05

COMMENTS: color, turbidity, recharge, sheen, odor
clear to light brown / low to mod turb / fast recharge / no sheen / no odor

PURGING DATA

Job No.: NC-20 Location: 1666 Main St. Fortuna Date: 1/5/04 Tech: M. Richard

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-13		0	---	---	---
Calc. purge	8:50	<1.00	0.37	68.9	5.88
volume	9:10	≈3.60	0.40	61.3	5.79
7.31	9:25	≈7.31	0.39	61.6	5.76

Sample for: TPHmo 7-oxygenates
TPHg TPHd (Siegel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer / Pump/Disposable Bailer

Sampling Method:
Dedicated / Disposable bailer
Sample at: 9:30 1/6/05

COMMENTS: color, turbidity, recharge, sheen, odor
clear to light brown | low to mod turb | fast recharge | no sheen | no odor

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-14		0	---	---	---
Calc. purge	12:15	<1.00	0.36	60.8	5.92
volume	12:35	≈4.25	0.42	61.5	5.84
8.52	12:55	≈8.52	0.44	61.7	5.78

Sample for: TPHmo 7-oxygenates
TPHg TPHd (Siegel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer/Pump/Disposable Bailer

Sampling Method:
Dedicated / Disposable bailer
Sample at: 13:00 1/5/05

COMMENTS: color, turbidity, recharge, sheen, odor
clear to light brown | low to mod turb | fast recharge | no sheen | no odor

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-15		0	---	---	---
Calc. purge	13:15	<1.00	0.41	60.9	5.91
volume	13:35	≈4.10	0.46	61.6	5.84
8.26	13:55	≈8.26	0.39	61.8	5.82

Sample for: TPHmo 7-oxygenates
TPHg TPHd (Siegel) 8260
BTEX MTBE 5-oxygenates

Purging Method:
PVC bailer/Pump/Disposable Bailer

Sampling Method:
Dedicated / Disposable bailer
Sample at: 14:00 1/5/05

COMMENTS: color, turbidity, recharge, sheen, odor
clear to light brown | low to mod turb | fast recharge | no sheen | no odor

PURGING DATA

Job No.: NC-20 Location: 1666 Main St. Fortuna Date: 1/5/05 Tech: M. Richard

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-16		0	---	---	---
Calc. purge volume 6.91	11:15	<1.00	0.50	61.0	6.03
	11:35	≈3.50	0.45	60.8	6.00
	11:55	≈6.91	0.43	60.8	6.01

COMMENTS: color, turbidity, recharge, sheen, odor
clear to light brown | low to mod turb | fast recharge | no sheen | no odor

Sample for: TPHmo 7-oxygenates
TPHg (TPHd se-gel) 8260
BTEX MTBE ~~5-oxygenates~~
Purging Method:
PVC bailer / Pump / Disposable Bailer
Sampling Method:
Dedicated / Disposable bailer
Sample at: 12:00 1/5/05

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-17		0	---	---	---
Calc. purge volume 9.96	9:15	<1.00	0.43	61.8	5.80
	9:35	≈5.00	0.42	62.9	5.75
	9:55	≈9.96	0.43	62.1	5.85

COMMENTS: color, turbidity, recharge, sheen, odor
clear to light brown | low to mod turb | fast recharge | no sheen | no odor

Sample for: TPHmo 7-oxygenates
TPHg (TPHd se-gel) 8260
BTEX MTBE 5-oxygenates
Purging Method:
PVC bailer/Pump/Disposable Bailer
Sampling Method:
Dedicated / Disposable bailer
Sample at: 10:00 1/5/05

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-18		0	---	---	---
Calc. purge volume 6.60	10:15	<1.00	0.45	61.0	5.85
	10:35	≈3.30	0.41	61.7	5.85
	10:55	≈6.60	0.37	61.7	5.87

COMMENTS: color, turbidity, recharge, sheen, odor
clear to light brown | low to mod turb | fast recharge | no sheen | no odor

Sample for: TPHmo 7-oxygenates
TPHg (TPHd se-gel) 8260
BTEX MTBE ~~5-oxygenates~~
Purging Method:
PVC bailer/Pump/Disposable Bailer
Sampling Method:
Dedicated / Disposable bailer
Sample at: 11:00 1/5/05

KIFF ANALYTICAL LLC

Report Number : 41896
Date : 1/17/2005

Andrew LoCicero
Blue Rock Environmental, Inc.
535 3rd Street, Suite 100
Eureka, CA 95501

Subject : 15 Water Samples
Project Name : Dave's 76
Project Number : NC-20

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896
Date : 1/17/2005

Subject : 15 Water Samples
Project Name : Dave's 76
Project Number : NC-20

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample MW-7. Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample MW-8.

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-3, MW-5, MW-6 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-3** Matrix : Water Lab Number : 41896-01

Sample Date :1/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**0.93**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	96.4		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-5** Matrix : Water Lab Number : 41896-02

Sample Date :1/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**7.2**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	96.2		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-6** Matrix : Water Lab Number : 41896-03

Sample Date :1/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**81**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**0.55**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	96.0		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-7** Matrix : Water Lab Number : 41896-04

Sample Date :1/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**230**	1.5	ug/L	EPA 8260B	1/17/2005
Toluene	**4.6**	1.5	ug/L	EPA 8260B	1/17/2005
Ethylbenzene	**290**	1.5	ug/L	EPA 8260B	1/17/2005
Total Xylenes	**610**	1.5	ug/L	EPA 8260B	1/17/2005
Methyl-t-butyl ether (MTBE)	**920**	1.5	ug/L	EPA 8260B	1/17/2005
Diisopropyl ether (DIPE)	**< 1.5**	1.5	ug/L	EPA 8260B	1/17/2005
Ethyl-t-butyl ether (ETBE)	**< 1.5**	1.5	ug/L	EPA 8260B	1/17/2005
Tert-amyl methyl ether (TAME)	**13**	1.5	ug/L	EPA 8260B	1/17/2005
Tert-Butanol	**290**	7.0	ug/L	EPA 8260B	1/17/2005
TPH as Gasoline	**17000**	250	ug/L	EPA 8260B	1/12/2005
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	1/17/2005
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	1/17/2005
TPH as Diesel (Silica Gel)	**< 1000**	1000	ug/L	M EPA 8015	1/12/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-8** Matrix : Water Lab Number : 41896-05

Sample Date :1/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/12/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/12/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/12/2005
4-Bromofluorobenzene (Surr)	97.3		% Recovery	EPA 8260B	1/12/2005
TPH as Diesel (w/ Silica Gel)	**100**	50	ug/L	M EPA 8015	1/12/2005
TPH as Motor Oil (w/ Silica Gel)	**140**	100	ug/L	M EPA 8015	1/12/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896
Date : 1/17/2005

Project Name : **Dave's 76**
Project Number : **NC-20**

Sample : **MW-9** Matrix : Water Lab Number : 41896-06
Sample Date :1/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	1/12/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/12/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/12/2005
Toluene - d8 (Surr)	90.0		% Recovery	EPA 8260B	1/12/2005
4-Bromofluorobenzene (Surr)	89.7		% Recovery	EPA 8260B	1/12/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-10** Matrix : Water Lab Number : 41896-07

Sample Date :1/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**65**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**7.5**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	96.5		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-11** Matrix : Water Lab Number : 41896-08

Sample Date :1/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**9.6**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-12** Matrix : Water Lab Number : 41896-09

Sample Date :1/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**180**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**3.2**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

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KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-13** Matrix : Water Lab Number : 41896-10

Sample Date :1/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**4.0**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	94.8		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

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KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-14** Matrix : Water Lab Number : 41896-11

Sample Date :1/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**160**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**2.8**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

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KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-15** Matrix : Water Lab Number : 41896-12

Sample Date :1/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**500**	1.5	ug/L	EPA 8260B	1/13/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**6.0**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**180**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	96.9		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

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KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-16** Matrix : Water Lab Number : 41896-13

Sample Date :1/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**150**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**2.0**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	95.4		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

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Report Number : 41896
Date : 1/17/2005

Project Name : **Dave's 76**
Project Number : **NC-20**

Sample : **MW-17** Matrix : Water Lab Number : 41896-14
Sample Date :1/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	96.2		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

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KIFF ANALYTICAL LLC

Report Number : 41896

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Sample : **MW-18** Matrix : Water Lab Number : 41896-15

Sample Date :1/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	**320**	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	**4.4**	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	96.2		% Recovery	EPA 8260B	1/11/2005
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	1/12/2005

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Report Number : 41896

Date : 1/17/2005

QC Report : Method Blank Data

Project Name : **Dave's 76**

Project Number : **NC-20**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	1/12/2005
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	1/12/2005
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	1/12/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	93.0		%	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	1/11/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/17/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/17/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/17/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/17/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/17/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	1/17/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	1/17/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	1/17/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	1/17/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/17/2005
Toluene - d8 (Surr)	102		%	EPA 8260B	1/17/2005
4-Bromofluorobenzene (Surr)	97.7		%	EPA 8260B	1/17/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	100		%	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	97.2		%	EPA 8260B	1/11/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	1/11/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	1/11/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/11/2005
Toluene - d8 (Surr)	104		%	EPA 8260B	1/11/2005
4-Bromofluorobenzene (Surr)	96.4		%	EPA 8260B	1/11/2005

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KIFF ANALYTICAL, LLC

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Report Number : 41896

Date : 1/17/2005

QC Report : Method Blank Data

Project Name : **Dave's 76**

Project Number : **NC-20**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/13/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/13/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/13/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/13/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/13/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	1/13/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	1/13/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	1/13/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	1/13/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/13/2005
Toluene - d8 (Surr)	103		%	EPA 8260B	1/13/2005
4-Bromofluorobenzene (Surr)	96.5		%	EPA 8260B	1/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

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KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 41896

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	842	879	ug/L	M EPA 8015	1/12/05	84.2	87.9	4.32	70-130	25
Benzene	41893-06	<0.50	40.0	40.0	38.7	38.0	ug/L	EPA 8260B	1/11/05	96.7	94.9	1.91	70-130	25
Toluene	41893-06	<0.50	40.0	40.0	37.8	36.5	ug/L	EPA 8260B	1/11/05	94.4	91.3	3.41	70-130	25
Tert-Butanol	41893-06	<5.0	200	200	199	197	ug/L	EPA 8260B	1/11/05	99.4	98.4	0.975	70-130	25
Methyl-t-Butyl Ether	41893-06	190	40.0	40.0	212	216	ug/L	EPA 8260B	1/11/05	61.8	72.1	15.4	70-130	25
Benzene	41955-06	<0.50	40.0	40.0	41.5	40.1	ug/L	EPA 8260B	1/17/05	104	100	3.41	70-130	25
Toluene	41955-06	<0.50	40.0	40.0	42.0	40.3	ug/L	EPA 8260B	1/17/05	105	101	4.05	70-130	25
Tert-Butanol	41955-06	<5.0	200	200	218	217	ug/L	EPA 8260B	1/17/05	109	108	0.677	70-130	25
Methyl-t-Butyl Ether	41955-06	6.1	40.0	40.0	44.4	44.4	ug/L	EPA 8260B	1/17/05	95.7	95.7	0.0296	70-130	25
Benzene	41916-04	<0.50	40.0	40.0	41.9	40.4	ug/L	EPA 8260B	1/11/05	105	101	3.72	70-130	25
Toluene	41916-04	<0.50	40.0	40.0	41.4	43.9	ug/L	EPA 8260B	1/11/05	103	110	6.05	70-130	25
Tert-Butanol	41916-04	<5.0	200	200	205	232	ug/L	EPA 8260B	1/11/05	102	116	12.7	70-130	25
Methyl-t-Butyl Ether	41916-04	<0.50	40.0	40.0	43.3	41.1	ug/L	EPA 8260B	1/11/05	108	103	5.26	70-130	25
Benzene	41895-05	<0.50	40.0	40.0	38.9	37.8	ug/L	EPA 8260B	1/11/05	97.3	94.6	2.77	70-130	25
Toluene	41895-05	<0.50	40.0	40.0	41.6	40.4	ug/L	EPA 8260B	1/11/05	104	101	3.10	70-130	25
Tert-Butanol	41895-05	<5.0	200	200	199	200	ug/L	EPA 8260B	1/11/05	99.7	100	0.366	70-130	25
Methyl-t-Butyl Ether	41895-05	0.96	40.0	40.0	32.7	32.5	ug/L	EPA 8260B	1/11/05	79.3	78.8	0.679	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 41896

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	41927-02	16	40.0	40.0	56.0	54.7	ug/L	EPA 8260B	1/13/05	100	97.0	3.31	70-130	25
Toluene	41927-02	<0.50	40.0	40.0	43.0	41.8	ug/L	EPA 8260B	1/13/05	107	105	2.62	70-130	25
Tert-Butanol	41927-02	7.9	200	200	211	213	ug/L	EPA 8260B	1/13/05	102	102	0.924	70-130	25
Methyl-t-Butyl Ether	41927-02	160	40.0	40.0	188	186	ug/L	EPA 8260B	1/13/05	75.9	71.8	5.54	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 41896

QC Report : Laboratory Control Sample (LCS)

Date : 1/17/2005

Project Name : **Dave's 76**

Project Number : **NC-20**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	1/11/05	92.7	70-130
Toluene	40.0	ug/L	EPA 8260B	1/11/05	93.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/11/05	96.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/11/05	95.7	70-130
Benzene	40.0	ug/L	EPA 8260B	1/17/05	100	70-130
Toluene	40.0	ug/L	EPA 8260B	1/17/05	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/17/05	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/17/05	97.3	70-130
Benzene	40.0	ug/L	EPA 8260B	1/11/05	105	70-130
Toluene	40.0	ug/L	EPA 8260B	1/11/05	99.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/11/05	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/11/05	94.4	70-130
Benzene	40.0	ug/L	EPA 8260B	1/11/05	94.8	70-130
Toluene	40.0	ug/L	EPA 8260B	1/11/05	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/11/05	99.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/11/05	82.6	70-130
Benzene	40.0	ug/L	EPA 8260B	1/13/05	96.9	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 41896

Date : 1/17/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : **Dave's 76**

Project Number : **NC-20**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	1/13/05	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/13/05	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/13/05	85.4	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 41896 Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Andrew Lockero

California EDF Report? [X] Yes [ ] No

Company/Address: Blue Rock Env Inc, 535 Third St. Ste 100 Eureka CA

Recommended but not mandatory to complete this section:
Sampling Company Log Code:

Phone No.: (707) 441-1934 FAX No.: (707) 441-1949

Global ID: T-0-6-0-2-3-0-0-4-9-7

Project Number: NC-20 P.O. No: —

EDF Deliverable To (Email Address): melissa@bluerockenv.com

Project Name: Davis 76

Sampler Signature: Melissa Richard

Project Address: 1666 Main St. Fortuna CA

Analysis Request

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015) Si-gel	TPH as Motor Oil (M8015) Si-gel	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
MW-3	1/6/05	13:30	8		X		X		X				X			X								X	01
MW-5	1/5/05	16:00																							02
MW-6	1/6/05	11:30																							03
MW-7	1/5/05	17:00																							04
MW-8	1/6/05	12:30	10											X											05
MW-9	1/6/05	15:00	8																						06
MW-10	1/6/05	8:30																							07
MW-11	1/6/05	10:30																							08
MW-12	1/5/05	15:00																							09
MW-13	1/6/05	9:30																							10

Relinquished by:	Date	Time	Received by:
Melissa Richard	1/7/05	-	Fed Ex
	01080	1320	Received by Laboratory: Chris Weiss KIFF ANALYTICAL

Remarks: The samples arrived on wet ice via Fed Ex at 12:45. The temperature of the samples in the ice chest was 6.1°C. The ~~temperature~~ CMW thermometer ID is 12-1 CMW 010805 Silica-gel cleanup on all M8015 1320

Bill to: Foster City

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 41896 Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Andrew Locicero

California EDF Report? ☒ Yes ☐ No

Company/Address: Blue Rock Env. Inc
535 Third St. Ste 100 Eureka CA

Recommended but not mandatory to complete this section:
Sampling Company Log Code:

Phone No.: (707) 441-1934
FAX No.: (707) 441-1949

Global ID: T-0-6-0-2-3-0-0-4-9-7

Project Number: NC-20
P.O. No: —

EDF Deliverable To (Email Address): melissa@bluerockenv.com

Project Name: Davis 76

Sampler Signature: Melissa Richard

Project Address: 1666 Main St. Fortuna CA

Analysis Request

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015) Si-gel	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
MW-14	1/5/05	13:00	8		X		X		X				X			X								X	11
MW-15	1/5/05	14:00	↓		↓		↓		↓				↓			↓								↓	12
MW-16	1/5/05	12:00	↓		↓		↓		↓				↓			↓								↓	13
MW-17	1/5/05	10:00	↓		↓		↓		↓				↓			↓								↓	14
MW-18	1/5/05	11:00	↓		↓		↓		↓				↓			↓								↓	15

Relinquished by:	Date	Time	Received by:
Melissa Richard	1/7/05	-	Fed EX
	010805	1320	KIFF ANALYTICAL

Remarks: The Sample arrived on wet ice via Fed ex @ 12:05 The Temperature of the Sample in the ice ~~box~~ cmw chest was 6.1°C. The Thermometer ID is IR-1 cmw 010805 B20
Silica-gel cleanup for all M8015

Bill to: Foster City

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9