THE McEDWARDS GROUP
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January 12, 2006
Job No. 1079.01.02

Mr. Craig Hunt
Water Resources Control Engineer
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

December 2005 Monitoring Report
Landmark Grocery, 31070 Highway 20
Fort Bragg, California

Dear Mr. Hunt:

This letter presents monitoring results for December 2005. Groundwater levels were measured and water samples were taken in MW-1 through MW-11on December 26, 2005. Water samples were also taken in the domestic well onsite. Groundwater levels were measured after opening the wells the day before to allow water levels to equilibrate to atmospheric pressure. Each well was purged of standing water until successive measurements of indicator parameters pH, conductivity, oxidation reduction potential, dissolved oxygen, and temperature differed by less than 5% or until the well dewatered, whichever came first. Following purging, each well was let stand for at least two hours and then sampled using a disposable bailer. The well purging and sampling record is attached.

Water level contours for December 2005 are shown on Plate 1. Hydrographs of water level elevations measured each quarter since June 2003 are shown on Plate 2. Water level depths and elevations measured each quarter since June 2003 are tabulated in Table 1.

Samples were submitted for analysis of Total Petroleum Hydrocarbons (TPH) as Diesel; TPH as Gasoline; Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX); fuel oxygenates Di-isopropyl Ether (DIPE), Ethyl tert-Butyl Ether (ETBE), Methyl tert-Butyl Ether (MTBE), tert-Amyl Methyl Ether (TAME), and tert-Butanol (TB); and lead scavengers 1,2-Dibromoethane (EDB) and 1,2-Dichloroethane (1,2-DCA). Historical analyses are shown in Table 2. Analyses results are posted next to the wells and dissolved oxygen readings taken at the close of well purging are contoured on Plate 3. TPH as Diesel concentrations are contoured on Plate 4.

CONCLUSIONS AND RECOMMENDATIONS

Review of Plate 1 indicates the groundwater flow direction the day of sampling was to the south-southeast. This direction is 90 degrees counterclockwise from the west-southwest flow direction seen historically and is believed to be an artifact of recent heavy rainfall.

Concentrations of TPH as Diesel ranging from 120 to 450 ug/l are found in MWs 4, 5, 7, 8, and 11. Concentrations of TPH as Gasoline of ranging from 60 to 300 ug/l are found in MWs 4, 6, and 8. Low concentrations of Xylenes and Ethylbenzene are found in MWs 4 and 8. All other analysis results were below test detection limits. The pattern of dissolved oxygen shown on Plate 3 shows a linear depression going from the area of MWs 4, 8, and 7 to the area of MW-11. This pattern of dissolved oxygen in groundwater is thought to result from depletion of dissolved oxygen due to biodegration of petroleum hydrocarbons. As such, the dissolved oxygen pattern is viewed as the signature of the biodegrading contaminant plume. The similar TPH as Diesel contour pattern shown on Plate 4 supports this view.

We recommend that an interim corrective action plan be prepared to reduce contaminant levels in the area of MWs 4, 8, and 7.

We trust this is the information you require at this time. If you have any questions, please call.

Very Truly Yours,
THE McEDWARDS GROUP

REGISTERED PROFESSIONAL ENGINEER
DONALD G. Mc EDWARDS
NO. 28088
EXP. 3/31/06
CIVIL
STATE OF CALIFORNIA

Donald G. McEdwards

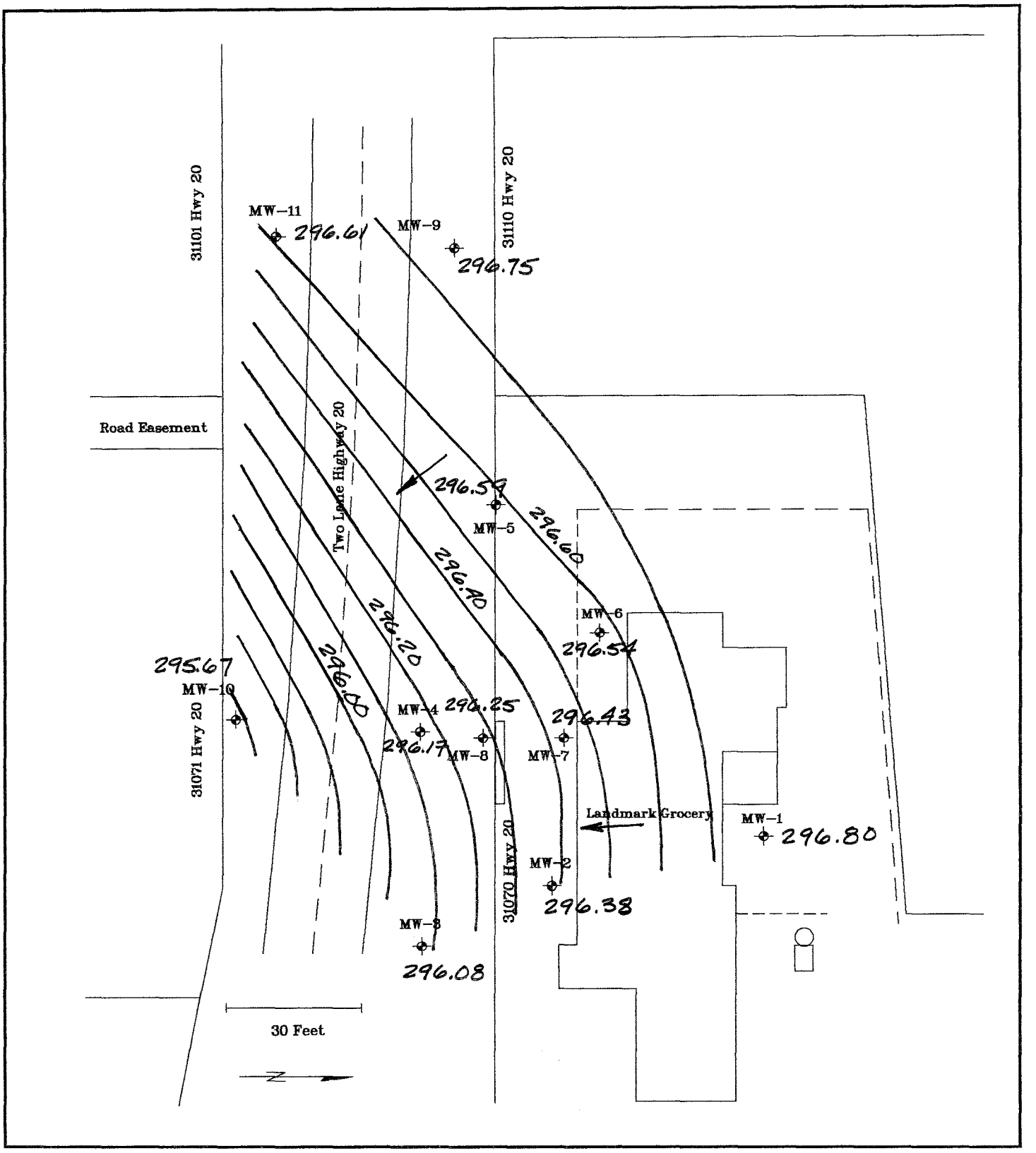
Donald G. McEdwards, PhD, CE 28088, EG 1288, HG 153
Principal Hydrogeologist

Attachments:
- Water Level Contours - 12/26/05, Plate 1
- Hydrographs of Wells MW-1 through MW-11, Plate 2
- Analysis Results and DO Levels - 12/26/05, Plate 3
- TPH as Diesel - 12/26/05, Plate 4
- Table 1 - Water Level Depths and Elevations at 31070 Highway 20, Fort Bragg
- Table 2 - Analytical Results for Water Samples from 31070 Highway 20, Fort Bragg
- Analytical Laboratory Report and Chain-of-Custody form
- Well Purging and Sampling Record

cc:

Ms. Diane Laura Rugh
31070 Highway 20
Fort Bragg, CA 95437

Ms. Jeannie Bailey
419 East Laurel Street
Fort Bragg, CA 95437



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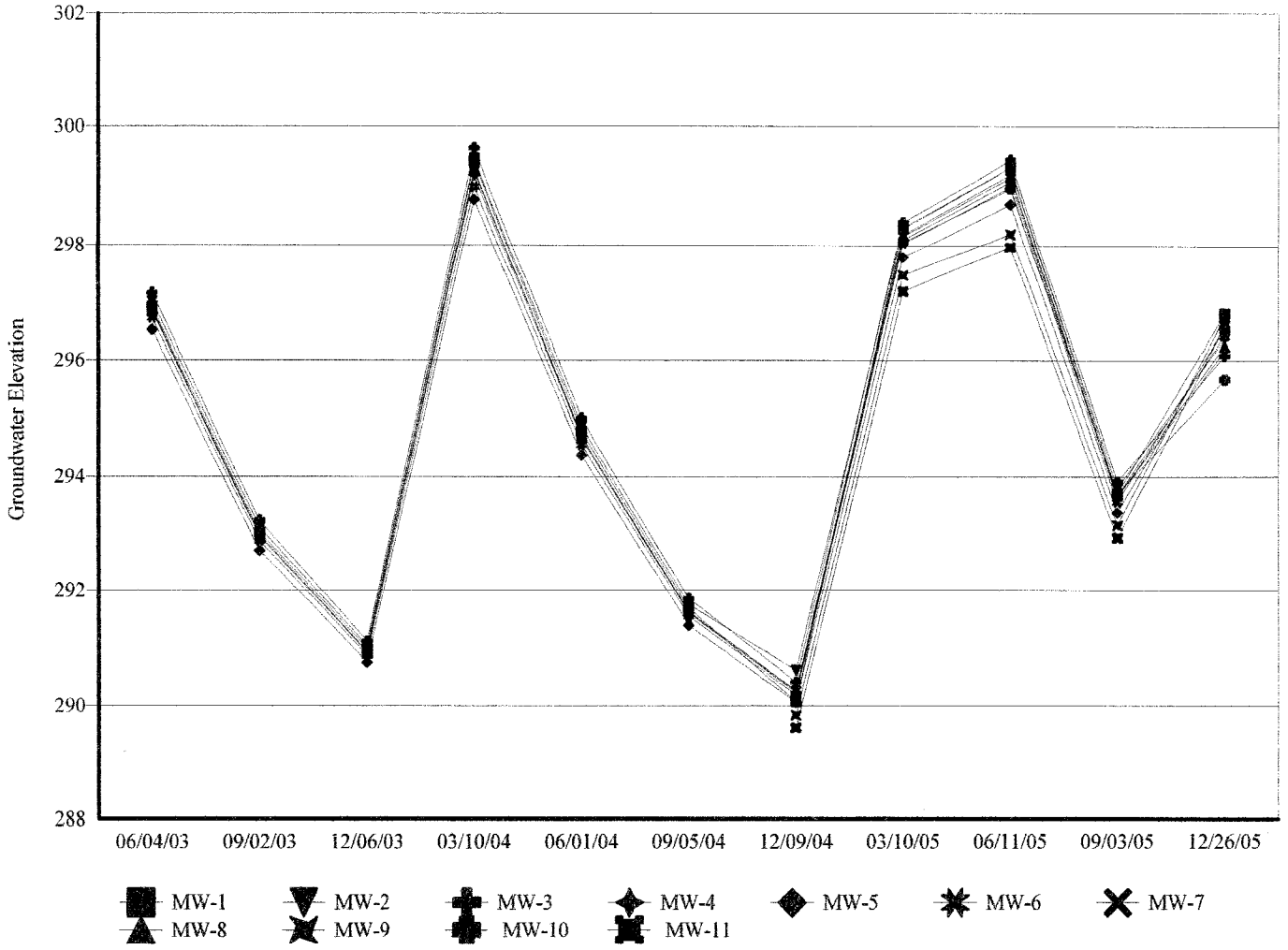
Water Level Contours – 12/26/05
31070 Highway 20
Fort Bragg, California

PLATE
1

Job Number: 1079.01.02

QTR.P1



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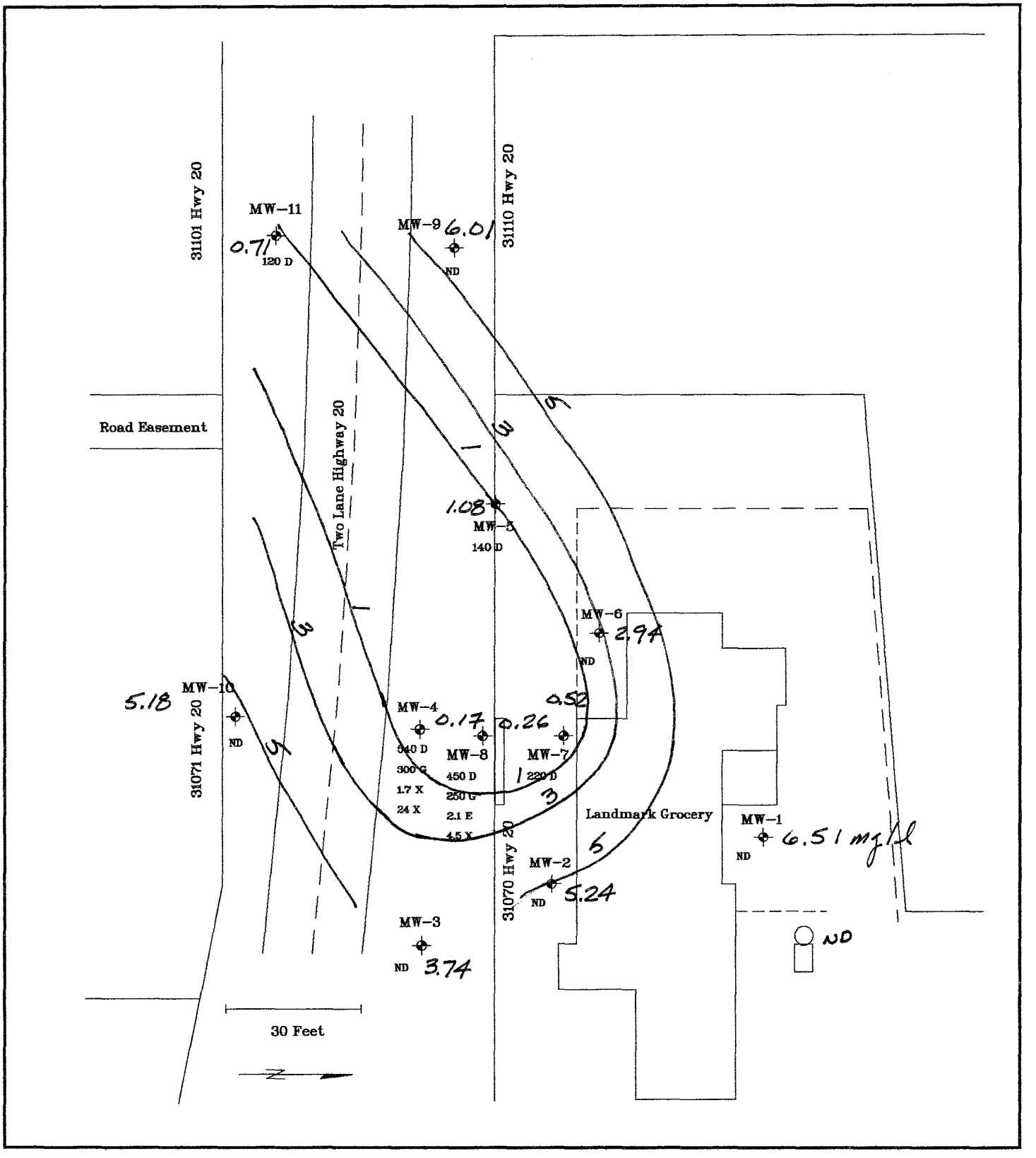
Hydrographs of MW-1 through MW-11
31070 Highway 20
Fort Bragg, California

PLATE
2

Job Number: 1079.01.02

QTR.P2



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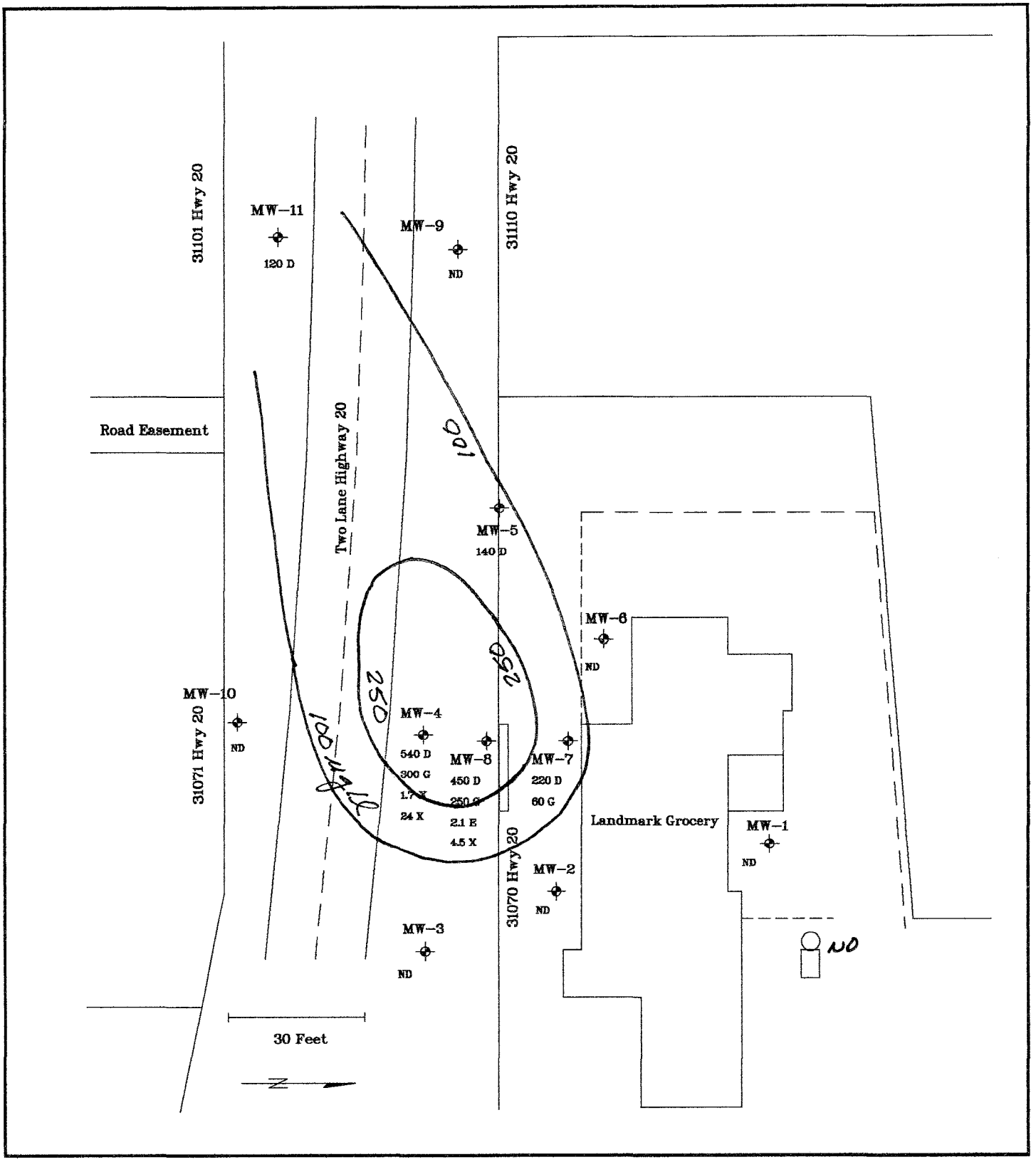
Analysis Results and DO Levels – 12/26/05
31070 Highway 20
Fort Bragg, California

PLATE
3

Job Number: 1079.01.02

QTR.P3



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TPH as Diesel – 12/26/05
31070 Highway 20
Fort Bragg, California

PLATE
4

Job Number: 1079.01.02

QTR.P4

Table 1 - Water Level Depths and Elevations at 31070 Highway 20, Fort Bragg

	Casing Elevation	*Depth*	*Elevation*	*Depth*	*Elevation*	*Depth*	*Elevation*	*Depth*	*Elevation*	*Depth*	*Elevation*	*Depth*	*Elevation*	*Depth*	*Elevation*
			06/04/03		*09/02/03*		*12/06/03*		*03/10/04*		*06/01/04*		*09/05/04*		*12/09/04*
MW-1	301.23	4.33	296.90	8.21	293.02	10.25	290.98	1.80	299.43	6.44	294.79	9.55	291.68	11.16	290.07
MW-2	301.51	4.51	297.00	8.40	293.11	10.48	291.03	2.04	299.47	6.63	294.88	9.77	291.74	10.90	290.61
MW-3	300.56	3.42	297.14	7.33	293.23	9.45	291.11	0.92	299.64	5.55	295.01	8.71	291.85	10.15	290.41
MW-4	300.59	3.76	296.83	7.64	292.95	9.67	290.92	1.39	299.20	5.91	294.68	9.00	291.59	10.36	290.23
MW-5	300.16	3.65	296.51	7.46	292.70	9.41	290.75	1.37	298.79	5.78	294.38	8.78	291.38	10.10	290.06
MW-6	301.11	4.40	296.71	8.24	292.87	10.24	290.87	2.10	299.01	6.55	294.56	9.57	291.54	10.92	290.19
MW-7	301.53	4.69	296.84	8.55	292.98	10.60	290.93	2.26	299.27	6.82	294.71	9.91	291.62	11.27	290.26
MW-8	300.47	3.61	296.86	7.52	292.95	9.55	290.92	1.16	299.31	5.79	294.68	8.86	291.61	10.22	290.25
MW-9	298.81													8.98	289.83
MW-10	300.35													10.15	290.20
MW-11	299.09													9.48	289.61

			03/10/05		*06/11/05*		*09/03/05*		*12/26/05*
MW-1	301.23	2.93	298.30	1.89	299.34	7.52	293.71	4.43	296.80
MW-2	301.51	3.19	298.32	2.17	299.34	7.71	293.80	5.13	296.38
MW-3	300.56	2.15	298.41	1.11	299.45	6.64	293.92	4.48	296.08
MW-4	300.59	2.48	298.11	1.49	299.10	6.94	293.65	4.42	296.17
MW-5	300.16	2.37	297.79	1.44	298.72	6.79	293.37	3.57	296.59
MW-6	301.11	3.07	298.04	2.10	299.01	7.55	293.56	4.57	296.54
MW-7	301.53	3.36	298.17	2.36	299.17	7.86	293.67	5.10	296.43
MW-8	300.47	2.28	298.19	1.25	299.22	6.81	293.66	4.22	296.25
MW-9	298.81	1.34	297.47	0.60	298.21	5.66	293.15	2.06	296.75
MW-10	300.35	2.29	298.06	1.37	298.98	6.64	293.71	4.68	295.67
MW-11	299.09	1.91	297.18	1.11	297.98	6.16	292.93	2.48	296.61

Table 2 - Analytical Results for Water Samples from 31070 Highway 20, Fort Bragg

		TPH as DIESEL	TPH as GASOLINE	BENZENE	TOLUENE	ETHLY-BENZENE	XYLENES		DIPE	ETBE	MTBE	TAME	TB	EDB	1,2-DCA
				ug/L								ug/L			
MW-1	*06/03*	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/04	**80**	<50	<0.5	<0.5	<0.5	<0.5	*03/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
MW-2	*06/03*	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
MW-3	*06/03*	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/04	**120**	<50	<0.5	<0.5	<0.5	<0.5	*03/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
MW-4	*06/03*	**89**	50	<0.5	<0.5	<0.5	<0.5	*06/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/03	**120**	50	<0.5	<0.5	<0.5	<0.5	*09/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/03	**500**	**180**	<0.5	<0.5	**0.66**	**5.8**	*12/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/04	**290**	**93**	<0.5	<0.5	**0.53**	**4.9**	*03/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/04	**69**	50	<0.5	<0.5	<0.5	<0.5	*06/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/04	**210**	**55**	<0.5	<0.5	<0.5	<0.5	*09/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/04	**400**	**140**	<0.5	<0.5	<0.5	**1.7**	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	**140**	50	<0.5	<0.5	<0.5	**2.4**	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	50	50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	50	50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	**540**	**300**	<0.5	<0.5	**1.7**	**24**	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0

Table 2 - Analytical Results for Water Samples from 31070 Highway 20, Fort Bragg

		TPH as DIESEL	TPH as GASOLINE	BENZENE	TOLUENE	ETHLY-BENZENE	XYLENES		DIPE	ETBE	MTBE	TAME	TB	EDB	1,2-DCA
				ug/L								ug/L			
MW-5	*06/03*	**53**	50	<0.5	<0.5	<0.5	<0.5	*06/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/03	**140**	**73**	<0.5	<0.5	<0.5	<0.5	*09/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/03	**200**	**65**	<0.5	<0.5	<0.5	<0.5	*12/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/04	50	50	<0.5	<0.5	<0.5	<0.5	*03/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/04	**54**	50	<0.5	<0.5	<0.5	<0.5	*06/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/04	**210**	**76**	<0.5	<0.5	<0.5	<0.5	*09/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/04	**130**	50	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	50	50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	50	50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	**180**	50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	**140**	<50	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
MW-6	*06/03*	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
MW-7	*06/03*	**190**	50	<0.5	<0.5	<0.5	<0.5	*06/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/03	**310**	**72**	<0.5	<0.5	<0.5	<0.5	*09/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/03	**320**	**180**	<0.5	<0.5	<0.5	<0.5	*12/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/04	**160**	50	<0.5	<0.5	<0.5	<0.5	*03/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/04	**200**	**59**	<0.5	<0.5	<0.5	<0.5	*06/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/04	**350**	**190**	<0.5	<0.5	<0.5	<0.5	*09/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/04	**340**	**160**	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	**130**	50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	**80**	50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	**200**	50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	**220**	**60**	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
MW-8	*06/03*	**4100**	50	<0.5	<0.5	<0.5	<0.5	*06/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/03	**14,000**	**1000**	<0.5	<0.5	**7.1**	**23**	*09/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/03	**1800**	**890**	<0.5	<0.5	**7.8**	**23**	*12/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/04	**130**	50	<0.5	<0.5	<0.5	<0.5	*03/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/04	**1100**	**150**	<0.5	<0.5	**1.7**	**4.1**	*06/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/04	**870**	**410**	<0.5	<0.5	**6.9**	**16**	*09/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/04	**4900**	**680**	<0.5	**0.77**	**2.3**	**1.9**	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	**240**	50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	50	50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	**410**	**160**	<0.5	<0.5	**2.7**	**3.0**	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	**450**	**250**	<0.5	<0.5	**2.1**	**4.5**	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0

Table 2 - Analytical Results for Water Samples from 31070 Highway 20, Fort Bragg

		TPH as DIESEL	TPH as GASOLINE	BENZENE	TOLUENE	ETHLY-BENZENE	XYLENES		DIPE	ETBE	MTBE	TAME	TB	EDB	1,2-DCA
				ug/L								ug/L			
MW-9	*12/04*	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	**0.70**	<0.5	<5.0	<5.0	<5.0
	12/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
MW-10	*12/04*	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
MW-11	*12/04*	**77**	<50	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	**78**	<50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/05	**160**	**61**	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	**120**	<50	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
Domestic Well	*06/03*	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/03	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/03*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	09/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/04	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/04*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	03/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*03/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	06/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*06/05*	<0.5	<0.5	**0.65**	<0.5	<5.0	<5.0	<5.0
	09/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*09/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0
	12/05	<50	<50	<0.5	<0.5	<0.5	<0.5	*12/05*	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0

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The McEdwards Group 1025 Hearst-Willits Road Willits, CA 95490-9743	Client Project ID: #1079.01.02; 31070 Highway 20	Date Sampled: 12/26/05
		Date Received: 12/28/05
	Client Contact: Don McEdwards	Date Extracted: 12/28/05
	Client P.O.:	Date Analyzed: 12/28/05-12/29/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0512471

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0512471-001B	MW-1	W	ND	1	103
0512471-002B	MW-2	W	ND	1	104
0512471-003B	MW-3	W	ND	1	105
0512471-004B	MW-4	W	540,d,b	1	105
0512471-005B	MW-5	W	140,b	1	104
0512471-006B	MW-6	W	ND	1	105
0512471-007B	MW-7	W	220,d,b	1	106
0512471-008B	MW-8	W	450,d,b	1	88
0512471-009B	MW-9	W	ND	1	88
0512471-010B	MW-10	W	ND	1	88
0512471-011B	MW-11	W	120,b	1	86
0512471-012B	Domestic Well	W	ND	1	98

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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The McEdwards Group 1025 Hearst-Willits Road Willits, CA 95490-9743	Client Project ID: #1079.01.02; 31070 Highway 20	Date Sampled: 12/26/05
		Date Received: 12/28/05
	Client Contact: Don McEdwards	Date Extracted: 12/30/05
	Client P.O.:	Date Analyzed: 12/30/05

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0512471

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	ND	---	ND	ND	ND	ND	1	103
002A	MW-2	W	ND	---	ND	ND	ND	ND	1	104
003A	MW-3	W	ND	---	ND	ND	ND	ND	1	107
004A	MW-4	W	300,b	---	ND	ND	1.7	24	1	106
005A	MW-5	W	ND	---	ND	ND	ND	ND	1	101
006A	MW-6	W	ND	---	ND	ND	ND	ND	1	104
007A	MW-7	W	60,b	---	ND	ND	ND	ND	1	91
008A	MW-8	W	250,b	---	ND	ND	2.1	4.5	1	91
009A	MW-9	W	ND	---	ND	ND	ND	ND	1	100
010A	MW-10	W	ND	---	ND	ND	ND	ND	1	104
011A	MW-11	W	ND	---	ND	ND	ND	ND	1	99
012A	Domestic Well	W	ND	---	ND	ND	ND	ND	1	108
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

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The McEdwards Group 1025 Hearst-Willits Road Willits, CA 95490-9743	Client Project ID: #1079.01.02; 31070 Highway 20	Date Sampled: 12/26/05
		Date Received: 12/28/05
	Client Contact: Don McEdwards	Date Extracted: 12/29/05
	Client P.O.:	Date Analyzed: 12/29/05

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0512471

Lab ID	0512471-001C	0512471-002C	0512471-003C	0512471-004C	Reporting Limit for DF =1	
Client ID	MW-1	MW-2	MW-3	MW-4		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	ND	NA	5.0
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5
Diisopropyl ether (DIPE)	ND	ND	ND	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	109	108	108	108		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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		Date Received: 12/28/05
	Client Contact: Don McEdwards	Date Extracted: 12/29/05
	Client P.O.:	Date Analyzed: 12/29/05

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0512471

Lab ID	0512471-005C	0512471-006C	0512471-007C	0512471-008C	Reporting Limit for DF =1	
Client ID	MW-5	MW-6	MW-7	MW-8		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	ND	NA	5.0
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5
Diisopropyl ether (DIPE)	ND	ND	ND	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	105	108	107	107		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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	Client Contact: Don McEdwards	Date Extracted: 12/29/05
	Client P.O.:	Date Analyzed: 12/29/05

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0512471

Lab ID	0512471-009C	0512471-010C	0512471-011C	0512471-012C	Reporting Limit for DF =1	
Client ID	MW-9	MW-10	MW-11	Domestic Well		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	ND	NA	5.0
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5
Diisopropyl ether (DIPE)	ND	ND	ND	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	107	106	108	109		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0512471

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 19626** **Spiked Sample ID: 0512470-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	98.4	99.2	0.786	102	98.7	3.02	70 - 130	70 - 130
MTBE	ND	10	87.1	89.2	2.35	105	96.7	8.63	70 - 130	70 - 130
Benzene	ND	10	81.7	84.2	3.01	82.5	84.7	2.56	70 - 130	70 - 130
Toluene	ND	10	82.4	84.6	2.68	82.9	85.8	3.50	70 - 130	70 - 130
Ethylbenzene	ND	10	83.1	84.6	1.81	87.6	86.2	1.57	70 - 130	70 - 130
Xylenes	ND	30	84.7	85	0.393	89.7	85.7	4.56	70 - 130	70 - 130
%SS:	100	10	98	100	2.83	98	98	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19626 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512471-001A	12/26/05 4:00 PM	12/30/05	12/30/05 3:27 AM	0512471-002A	12/26/05 5:30 PM	12/30/05	12/30/05 3:56 AM
0512471-003A	12/26/05 5:00 PM	12/30/05	12/30/05 4:26 AM	0512471-004A	12/26/05 6:00 PM	12/30/05	12/30/05 4:55 AM
0512471-005A	12/26/05 2:00 PM	12/30/05	12/30/05 7:53 AM	0512471-006A	12/26/05 7:30 PM	12/30/05	12/30/05 8:53 AM
0512471-007A	12/26/05 7:00 PM	12/30/05	12/30/05 9:53 AM	0512471-008A	12/26/05 6:30 PM	12/30/05	12/30/05 9:23 AM
0512471-009A	12/26/05 2:30 PM	12/30/05	12/30/05 9:25 AM	0512471-010A	12/26/05 3:30 PM	12/30/05	12/30/05 9:58 AM
0512471-011A	12/26/05 3:00 PM	12/30/05	12/30/05 10:31 AM	0512471-012A	12/26/05 4:30 PM	12/30/05	12/30/05 11:03 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0512471

EPA Method: SW8015C **Extraction: SW3510C** **BatchID: 19617** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	101	105	3.38	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	106	110	4.47	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19617 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512471-001B	12/26/05 4:00 PM	12/28/05	12/28/05 7:52 PM	0512471-002B	12/26/05 5:30 PM	12/28/05	12/28/05 9:01 PM
0512471-003B	12/26/05 5:00 PM	12/28/05	12/28/05 10:09 PM	0512471-004B	12/26/05 6:00 PM	12/28/05	12/28/05 11:18 PM
0512471-005B	12/26/05 2:00 PM	12/28/05	12/29/05 12:26 AM	0512471-006B	12/26/05 7:30 PM	12/28/05	12/29/05 1:34 AM
0512471-007B	12/26/05 7:00 PM	12/28/05	12/29/05 2:42 AM	0512471-008B	12/26/05 6:30 PM	12/28/05	12/28/05 5:22 PM
0512471-009B	12/26/05 2:30 PM	12/28/05	12/28/05 9:55 PM	0512471-010B	12/26/05 3:30 PM	12/28/05	12/28/05 7:39 PM
0512471-011B	12/26/05 3:00 PM	12/28/05	12/28/05 8:47 PM	0512471-012B	12/26/05 4:30 PM	12/28/05	12/28/05 5:22 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0512471

EPA Method: SW8260B | **Extraction: SW5030B** | **BatchID: 19620** | **Spiked Sample ID: 0512465-002B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	104	105	1.79	95.8	98.3	2.65	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	86.3	97.8	12.5	84.3	85.4	1.31	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	10	106	108	1.63	100	102	1.55	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	105	105	0	101	103	2.06	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	92.7	95.5	2.98	91.5	93.3	1.91	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	91.2	91.1	0.0359	86.2	87	1.02	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	91.2	94.8	3.87	82.5	85.8	3.89	70 - 130	70 - 130
%SS1:	103	10	105	105	0	98	98	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19620 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512471-001C	12/26/05 4:00 PM	12/29/05	12/29/05 1:38 AM	0512471-002C	12/26/05 5:30 PM	12/29/05	12/29/05 2:25 AM
0512471-003C	12/26/05 5:00 PM	12/29/05	12/29/05 3:12 AM	0512471-004C	12/26/05 6:00 PM	12/29/05	12/29/05 3:58 AM
0512471-005C	12/26/05 2:00 PM	12/29/05	12/29/05 4:46 AM	0512471-006C	12/26/05 7:30 PM	12/29/05	12/29/05 5:35 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0512471

EPA Method: SW8260B | **Extraction: SW5030B** | **BatchID: 19628** | **Spiked Sample ID: 0512471-012C**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	95.3	100	4.93	104	96.7	7.25	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	88.7	85.9	3.19	82.4	86.7	5.06	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	10	103	105	2.11	110	104	5.52	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	99.2	102	2.86	108	98.6	8.90	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	85.2	89.7	5.17	97.7	85.1	13.9	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	83.3	85.6	2.68	93.1	83.7	10.6	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	87.2	87.7	0.610	96.6	86	11.6	70 - 130	70 - 130
%SS1:	109	10	99	99	0	99	99	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19628 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512471-007C	12/26/05 7:00 PM	12/29/05	12/29/05 6:23 AM	0512471-008C	12/26/05 6:30 PM	12/29/05	12/29/05 7:12 AM
0512471-009C	12/26/05 2:30 PM	12/29/05	12/29/05 8:01 AM	0512471-010C	12/26/05 3:30 PM	12/29/05	12/29/05 8:47 AM
0512471-011C	12/26/05 3:00 PM	12/29/05	12/29/05 9:34 AM	0512471-012C	12/26/05 4:30 PM	12/29/05	12/29/05 10:21 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0512471 **ClientID: TMG** **EDF: YES**

Report to:
Don McEdwards
The McEdwards Group
1025 Hearst-Willits Road
Willits, CA 95490-9743

TEL: (707) 459-1086
FAX: (707) 459-1084
ProjectNo: #1079.01.02; 31070 Highway 20
PO:

Bill to:
Don McEdwards
The McEdwards Group
1025 Heasrt-Willits Road
Willits, CA 95490-9743

Requested TAT: 5 days

Date Received: 12/28/2005
Date Printed: 12/28/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0512471-001	MW-1	Water	12/26/05 4:00:00	☐	C	A	A	B								
0512471-002	MW-2	Water	12/26/05 5:30:00	☐	C	A		B								
0512471-003	MW-3	Water	12/26/05 5:00:00	☐	C	A		B								
0512471-004	MW-4	Water	12/26/05 6:00:00	☐	C	A		B								
0512471-005	MW-5	Water	12/26/05 2:00:00	☐	C	A		B								
0512471-006	MW-6	Water	12/26/05 7:30:00	☐	C	A		B								
0512471-007	MW-7	Water	12/26/05 7:00:00	☐	C	A		B								
0512471-008	MW-8	Water	12/26/05 6:30:00	☐	C	A		B								
0512471-009	MW-9	Water	12/26/05 2:30:00	☐	C	A		B								
0512471-010	MW-10	Water	12/26/05 3:30:00	☐	C	A		B								
0512471-011	MW-11	Water	12/26/05 3:00:00	☐	C	A		B								
0512471-012	Domestic Well	Water	12/26/05 4:30:00	☐	C	A		B								

Test Legend:

1	5-OXYS+PBSCV_W	2	G-MBTEX_W	3	PREDF REPORT	4	TPH(D)_W	5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

051247

McCAMPBELL ANALYTICAL, INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: 925/798-1620 Facsimile: 925/798-1622

CHAIN-OF-CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS

EDF? ☐ NO ☒ YES

E-Mail: tmg@instawave.net

Report to: Donald G. McEdwards
The McEdwards Group
1025 Hearst-Willits Road
Willits, CA 95490 E-Mail: tmg@instawave.net
707/459-1086 Fax: 707/459-1084

Bill to: Same

Project Number: 1079.01.02 Project Name: 31070 Highway 20

Project Location: Fort Bragg

Sampler Signature: Donald G. McEdwards

	Sample ID	Date	Time	Container No	Container Type	Water	Soil	Air	Other	Ice	HCl	HNO3	Other	BTEX & TPH as Gas (602/8020+8015)	TPH as Diesel (8015)	TPH as Motor Oil (8260)	Five Oxygenates (8260)	EDB and 1,2, DCA (8260)	Volative Organics by 8260	TPH as Stoddard Solvent (8015)	Comments
+	MW-1	12/26/05	1600	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						
+	MW-2		1730	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						
+	MW-3		1700	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						
+	MW-4		1800	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						
+	MW-5		1400	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						
+	MW-6		1930	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						
+	MW-7		1900	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						
+	MW-8		1830	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						
+	MW-9		1430	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						
+	MW-10		1530	4	VOA	x				x	x			x			x	x			
	"		"	1	Liter	x				x	x				x						

Relinquished by:	Date	Time	Received by:
Donald G. McEdwards	12/27/05	0800	
Relinquished by:	Date 12/28/05	Time 8am	Received by:
Relinquished by:	Date	Time	Received by:

ICW/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ____
PRESERVED IN LAB ____

PRESERVATION	VOAS	O & G	METALS	OTHER
	✓			

APPROPRIATE CONTAINERS ✓

REC'D SEALED & INTACT VIA C/O

McCAMPBELL ANALYTICAL, INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: 925/798-1620 Facsimile: 925/798-1622

CHAIN-OF-CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS

EDF? ☐ NO ☒ YES

E-Mail: tmg@instawave.net

Report to: Donald G. McEdwards
The McEdwards Group
1025 Hearst-Willits Road
Willits, CA 95490 E-Mail: tmg@instawave.net
707/459-1086 Fax: 707/459-1084

Bill to: Same

Project Number: 1079.01.02 Project Name: 31070 Highway 20

Project Location: Fort Bragg

Sampler Signature: Donald G. McEdwards

Sample ID	Date	Time	Container No	Container Type	Water	Soil	Air	Other	Ice	HCl	HNO3	Other	BTEX & TPH as Gas (602/8020+8015)	TPH as Diesel (8015)	TPH as Motor Oil (8260)	Five Oxygenates (8260)	EDB and 1,2, DCA (8260)	Volative Organics by 8260	TPH as Stoddard Solvent (8015)	Comments
MW-11	12/26/05	1500	4	VOA	x				x	x			x			x	x			
"		"	1	Liter	x				x	x				x						
Domestic Well		1630	4	VOA	x				x	x			x			x	x			
"		"	1	Liter	x				x	x				x						

Relinquished by: Donald G. McEdwards Date 12/27/05 Time 0800 Received by:

Relinquished by: Date 12/28/05 Time 8am Received by:

Relinquished by: Date Time Received by:

ICW/T _____

GOOD CONDITION _____

HEAD SPACE ABSENT _____

DECHLORINATED IN LAB _____

	VOAS	O & G	METALS	OTHER
PRESERVATION				

APPROPRIATE CONTAINERS _____

PRESERVED IN LAB _____

Well Purging and Sampling Record

The McEdwards Group, 1025 Hearst-Willits Road, Willits, CA 95490
Tel: 707/459-1086 Fax: 707/459-1084
Field work done by Donald G. McEdwards

Site Name 31070 HWY 20 Project No. 1079.0L02 Date 12/26/05

Five casing volumes (5CV) = water column (WC) in ft * 0.816 (5/6) gal/ft for 2" well [3.26 (10/3) gal/ft for 4" well]

MW 1 Depth[a] 20 WL[b] 4.43 WC[a-b] 16.57 5CV 13.52

Gal	pH	Cond	ORP	D O	Temp
2	5.00	65	331	6.75	12.6
4	5.00	63	333	6.72	12.4
6	5.01	61	332	6.59	12.4
8	4.97	62	335	6.50	12.4
10	5.00	62	336	6.39	12.4
12	4.99	62	337	6.31	12.4

Purged Gallons: 12 Time Sampled 1600

MW 2 Depth[a] 20 WL[b] 5.13 WC[a-b] 14.87 5CV 12.13

Gal	pH	Cond	ORP	D O	Temp
2	4.85	128	344	5.06	15.7
4	4.85	127	346	5.21	15.7
6	4.84	126	349	5.20	15.7
8	4.81	126	350	5.22	15.7
10	4.82	126	349	5.20	15.7
12	4.81	126	351	5.24	15.7

Purged Gallons: 12 Time Sampled 1730

MW 3 Depth[a] 20 WL[b] 4.48 WC[a-b] 15.52 5CV 12.66

Gal	pH	Cond	ORP	D O	Temp
2	4.91	110	345	3.70	16.3
4	4.88	110	348	3.69	16.1
6	4.91	110	349	3.72	16.1
8	4.89	110	351	3.73	16.1
10	4.91	110	351	3.73	16.1
12	4.89	110	352	3.74	16.1

Purged Gallons: 12 Time Sampled 1700

MW 4 Depth[a] 20 WL[b] 4.42 WC[a-b] 15.58 5CV 12.71

Gal	pH	Cond	ORP	D O	Temp
2	5.11	113	279	0.12	16.3
4	5.08	113	264	0.10	16.2
6	5.15	113	251	0.14	16.2
8	5.12	113	247	0.15	16.2
10	5.15	113	241	0.16	16.2
12	5.13	113	241	0.17	16.2

Purged Gallons: 12 Time Sampled 1800

MW 5 Depth[a] 20 WL[b] 3.57 WC[a-b] 16.43 5CV 13.40

Gal	pH	Cond	ORP	D O	Temp
2	5.49	102	194	0.80	14.5
4	4.92	102	235	1.71	14.3
6	4.86	102	247	1.25	14.4
8	4.83	105	248	1.14	14.4
10	4.95	104	248	1.07	14.5
12	5.06	101	256	1.03	14.5

Purged Gallons: 12 Time Sampled 1400

MW 6 Depth[a] 20 WL[b] 4.57 WC[a-b] 15.43 ___

Gal	pH	Cond	ORP	D O	Temp
2	5.04	64	253	2.77	13.7
4	4.77	63	265	2.47	13.6
6	4.79	56	275	2.50	13.6
8	4.78	56	281	2.67	13.6
10	4.80	56	284	2.78	13.7
12	4.77	56	290	2.94	13.7

Purged Gallons: 12 Time Sampled 1930

MW 7 Depth[a] 20 WL[b] 5.10 WC[a-b] 14.90 5CV 12.15

Gal	pH	Cond	ORP	D O	Temp
2	5.11	131	157	0.13	15.2
4	5.07	131	194	0.08	15.2
6	5.05	130	212	0.50	15.2
8	4.98	129	224	0.46	15.3
10	4.99	128	230	0.50	15.3
12	4.96	127	232	0.52	15.3

Purged Gallons: 12 Time Sampled 1900

MW 8 Depth[a] 20 WL[b] 4.22 WC[a-b] 15.88 5CV 12.95

Gal	pH	Cond	ORP	D O	Temp
2	5.58	151	134	0.10	16.6
4	5.65	151	122	0.15	16.6
6	5.72	153	99	0.22	16.6
8	5.73	153	90	0.24	16.6
10	5.75	155	79	0.25	16.6
12	5.75	155	74	0.26	16.6

Purged Gallons: 12 Time Sampled 1830

Well Purging and Sampling Record

The McEdwards Group, 1025 Hearst-Willits Road, Willits, CA 95490
Tel: 707/459-1086 Fax: 707/459-1084
Field work done by Donald G. McEdwards

Site Name 31070 HWY 20 Project No. 1079.0108 Date 12/26/05

Five casing volumes (5CV) = water column (WC) in ft * 0.816 (5/6) gal/ft for 2" well [3.26 (10/3) gal/ft for 4" well]

MW 9 Depth[a] 20 WL[b] 2.06 WC[a-b] 17.94 5CV 14.63

Gal	pH	Cond	ORP	D O	Temp
2	4.87	84	270	6.02	13.7
4	4.85	83	278	6.09	13.7
6	4.91	81	278	6.03	13.7
8	4.86	82	281	6.01	13.7
10	4.89	82	283	5.98	13.7
12	4.87	82	288	6.01	13.7

Purged Gallons: 12 Time Sampled 1430

MW 10 Depth[a] 20 WL[b] 4.68 WC[a-b] 15.32 5CV 12.50

Gal	pH	Cond	ORP	D O	Temp
2	4.88	95	320	5.14	14.4
4	5.02	95	317	5.15	14.4
6	5.10	84	317	5.20	14.3
8	4.97	77	330	5.21	14.3
10	4.91	74	332	5.19	14.3
12	4.87	74	334	5.18	14.3

Purged Gallons: 12 Time Sampled 1530

MW 11 Depth[a] 20 WL[b] 2.48 WC[a-b] 17.52 5CV 14.29

Gal	pH	Cond	ORP	D O	Temp
2	4.76	115	299	0.72	14.4
4	4.75	114	305	0.63	14.4
6	4.77	114	311	0.64	14.4
8	4.75	114	316	0.68	14.4
10	4.79	114	319	0.69	14.4
12	4.75	114	324	0.71	14.4

Purged Gallons: 12 Time Sampled 1500

MW __ Depth[a] ___ WL[b] ___ WC[a-b] ___ 5CV ___

Gal	pH	Cond	ORP	D O	Temp
DOMESTIC WELL					1630

Purged Gallons: ___ Time Sampled ___

MW __ Depth[a] ___ WL[b] ___ WC[a-b] ___ 5CV ___

Gal	pH	Cond	ORP	D O	Temp

Purged Gallons: ___ Time Sampled ___

MW __ Depth[a] ___ WL[b] ___ WC[a-b] ___ 5CV ___

Gal	pH	Cond	ORP	D O	Temp

Purged Gallons: ___ Time Sampled ___

MW __ Depth[a] ___ WL[b] ___ WC[a-b] ___ 5CV ___

Gal	pH	Cond	ORP	D O	Temp

Purged Gallons: ___ Time Sampled ___

MW __ Depth[a] ___ WL[b] ___ WC[a-b] ___ 5CV ___

Gal	pH	Cond	ORP	D O	Temp

Purged Gallons: ___ Time Sampled ___