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17 April 1998

Correction
STID 3279

Larry Seto
Alameda County Health Agency
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

RE: Quarterly Monitoring Report for the Nestle Oakland Facility at
1310 14th Street, Oakland, California

Dear Mr. Seto:

Attached is the Fourth Quarter 1997 and First Quarter 1998 Monitoring Report for the above-referenced site. If you have any questions I can be reached at (510) 283-7077.

Sincerely,

Douglas Oram
Project Manager

DEO/dh 60966.01.Q1097

Enclosure
cc: Binayak Acharya, Nestle USA, Inc.

Fourth Quarter 1997 and First Quarter 1998
Monitoring Report
Nestle Facility
1310 14th Street
Oakland, California

Prepared for

Nestle USA, Inc.

Prepared by

EA Engineering, Science, and Technology

April 1998

60966.01.0008

60966.01.0008

Fourth Quarter 1997 and First Quarter 1998 Monitoring Report Nestle Facility 1310 14th Street Oakland, California

Prepared for

Nestle USA, Inc.
800 North Brand Boulevard
Glendale, California 91203

Prepared by

EA Engineering, Science, and Technology
3468 Mt. Diablo Boulevard, Suite B-100
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Douglas E. Oram, Ph.D.
Project Manager

4/17/98
Date

Christa G. Marting
Senior Geologist

4/17/98
Date

April 1998

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SITE CONTACTS

Site Address:	1310 14th Street Oakland, California
Nestle USA, Inc. Contact:	Binayak Acharya Nestle USA, Inc. 800 North Brand Boulevard Glendale, California 91203 (818) 549-5948
Consultant to Nestle USA, Inc.:	EA Engineering, Science, and Technology 3468 Mt. Diablo Boulevard, Suite B-100 Lafayette, California 94549 (510) 283-7077
EA Project Manager:	Douglas E. Oram
Regulatory Oversight:	Larry Seto Alameda County Health Agency Division of Environmental Protection 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502 *(510) 567-6700*

1. INTRODUCTION

Nestle USA, Inc. (Nestle) has retained EA Engineering, Science, and Technology (EA) to provide environmental services for the Nestle facility at 1310 14th Street, Oakland, California (Figure 1). EA has been providing environmental services for the site since December 1995.

This monitoring report covers quarterly sampling for the past two quarters (fourth quarter 1997 and first quarter 1998). The number of wells sampled each quarter alternates between three and nine. During the first and third quarters, wells MW2, MW3, MW6, MW25, MW26, MW28, MW29, MW30, and MW32 are gauged and sampled. During the second and fourth quarters, all nine wells are gauged but only wells MW3, MW26, and MW28 are sampled. Monitoring well MW6 was not monitored during the first quarter of 1998 because it was not accessible.

During the past two quarters a multiphase extraction remediation system was installed. The focus of the current remedial effort is the recovery of non-aqueous phase petroleum hydrocarbons (NAPL). A description of the remediation system and its performance and a summary of the results of the past two quarterly monitoring events are presented below.

2. FIELD PROCEDURES

2.1 NAPL GAUGING

A total of 57 wells have been gauged using an interface probe to determine the presence and thickness of NAPL between July 1997 and March 1998. The locations of the wells monitored for NAPL during this period are shown in Figure 2. The set of wells used to monitor the location of NAPL in the subsurface will change as remediation progresses.

2.2 PURGING AND SAMPLING OF GROUNDWATER

After depths to groundwater were measured, approximately 3 well casing volumes of water were removed from each well to be sampled, using a dedicated 1-inch PVC pipe attached to a vacuum truck. The temperature, pH, and electrical conductance of the purged water were recorded at approximately each well casing volume as each well was purged. When the parameters were stable (less than 10 percent change from the previous reading for temperature and electrical conductance, and less than 0.1 pH unit change for pH) purging was stopped. Groundwater samples were collected from each well with factory-cleaned disposable polyethylene bailers. The samples were poured into 40-mL glass VOA vials and 1-L glass amber jars and placed in an ice-filled cooler. A field-prepared sampling equipment rinse blank was stored and transported in the cooler with the samples. All samples were handled and transported under chain of custody.

The samples were submitted to the Nestle Quality Assurance Laboratory (NQAL), where they were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) by the California DOHS method described in the October 1989 LUFT Field Manual. Samples were also analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl t-butyl ether (MTBE) by EPA

Method 8020. Some of the samples were also analyzed for Total Petroleum Hydrocarbons as diesel (TPH-d) by the California DOHS method and for halogenated volatile organic compounds (HVOCs) by EPA Method 8010. The following tables list the wells that were sampled and the analyses that were performed during the fourth quarter of 1997 and the first quarter of 1998:

Fourth Quarter 1997

Well	BTEX	TPH-g	TPH-d	MTBE	HVOCs
MW-3	x	x		x	x
MW-26	x	x		x	x
MW-28	x	x		x	x

First Quarter 1998

Well	BTEX	TPH-g	TPH-d	MTBE	HVOCs
MW-2	x	x	x	x	
MW-3	x	x		x	
MW-25	x	x		x	
MW-26	x	x	x	x	x
MW-28	x	x	x	x	
MW-29	x	x	x	x	
MW-30	x	x		x	
MW-32	x	x		x	x

3. SUMMARY OF RESULTS

3.1 NAPL GAUGING AND MONITORING

In July and August 1997 and February and March 1998, wells were gauged for depth to water and monitored for the presence of NAPL. NAPL monitoring data since November 1993 are summarized in Table 1. The 57 wells that have been monitored for NAPL since July 1997 are shown in Figure 2. Of these wells, 26 contain no detectable NAPL, 31 contain >0.01 feet of NAPL, and 13 contain >1.0 feet of NAPL. The spacial distribution of wells containing the different thicknesses of NAPL is shown in Figure 3. Field documentation is presented in Appendix A.

3.2 DEPTH TO GROUNDWATER IN MONITORING WELLS

Groundwater elevations on 27 October 1997 ranged from 4.49 (MW29) to 4.90 (MW32) feet above mean sea level, and groundwater elevations on 27 January 1998 ranged from 7.45

(MW29) to 8.41 (MW32) feet above mean sea level (Table 2). Groundwater elevations increased approximately 3 feet over the last quarter. A groundwater elevation contour map for 27 October 1997, which is also representative of January 1998, is shown in Figure 4. The direction of groundwater flow in October and January was toward the north-northwest, at a gradient of approximately 0.003 feet per foot. Field documentation is provided in Appendix A.

3.3 ANALYSIS OF SAMPLES

3.3.1 Petroleum Hydrocarbons

The petroleum hydrocarbon analytical results for the groundwater samples collected on 27 October 1997 and 27 January 1998 are presented in Table 3, along with previous results. Laboratory analytical reports and chain-of-custody documentation for the 27 October 1997 and 27 January 1998 sampling events are included in Appendix B.

The distribution of BTEX and TPH-g in the groundwater samples collected on 27 October 1997 is shown in Figure 5, and the distribution of BTEX, TPH-g, and TPH-d in the groundwater samples collected on 27 January 1998 is shown in Figure 6. On 27 January 1998, benzene concentrations ranged from 5.4 μg/L (MW30) to 23,600 μg/L (MW26), and TPH-g concentrations ranged from 100 μg/L (MW2, MW29, and MW30) to 26,000 μg/L (MW26). MTBE was detected in the samples collected from six of the eight wells in January, at concentrations ranging from 2.5 μg/L (MW32) to 100 μg/L (MW26).

An increase in BTEX, TPH-g, and MTBE concentrations was observed in samples collected from MW3, MW26, and MW28 relative to 27 October 1997.

3.3.2 HVOCs

The HVOC analytical results for the samples collected on 27 October 1997 and 27 January 1998 are summarized in Table 3, and the laboratory analytical reports and chain-of-custody documentation are included in Appendix B.

The concentrations of 1,1-dichloroethane (1,1-DCA) and 1,2-dichloroethane (1,2-DCA) detected in the groundwater samples collected on 27 October 1997 and 27 January 1998 are shown in Figures 5 and 6. During the January sampling event, 1,1-DCA was detected at 8.3 μg/L (MW26) and 1,2-DCA was detected at 7.5 μg/L (MW32) and 100 μg/L (MW26).

4. REMEDIATION SYSTEM INSTALLATION AND MONITORING

4.1 REMEDIATION SYSTEM INSTALLATION

The multiphase extraction (MPE) system was installed during August 1997. The system is capable of extracting and separating non-aqueous phase liquid (NAPL), groundwater, and soil vapor. The focus of the current phase of remediation is capture and removal of NAPL.

The remediation system is operating under an Authority to Construct and Operate (No. 17276) issued by the Bay Area Air Quality Management District and a Wastewater Discharge Permit (No. 50360081) issued by the East Bay Municipal Utility District.

NAPL is extracted from wells on the site that have historically contained thicknesses of fuel hydrocarbons. During the process of extracting fuel from the wells, soil vapor and groundwater are also removed. All liquids are removed from the vapor stream by a vapor/water separator prior to entering the vacuum pump. Vapors exiting the pump are treated using two carbon adsorbers plumbed in series. Liquids from the vapor/water separator are pumped to an oil/water separator. Water from the separator is then pumped through four 200-pound carbon adsorbers plumbed in series and discharged to the sanitary sewer. The fuel hydrocarbons from the separator are stored in a temporary holding tank prior to their removal by a licensed waste hauler. A piping and instrumentation diagram showing the system configuration is shown in Figure 7, and a plan view of the site showing the layout of the system is shown in Figure 8.

EA began MPE system operation on 28 August 1997. During initial operation, EA discovered mechanical problems with the MPE equipment. The MPE equipment was returned to the manufacturer for correction. The MPE system was reinstalled, and the system was restarted on 4 November 1997. Since November the system has operated continuously, with periodic shutdowns to replace the carbon in the air and water abatement equipment.

4.2 REMEDIATION SYSTEM MONITORING

The monitoring results for the water treatment system are summarized in Table 4. Table 4 shows an estimated 145 pounds of hydrocarbon have been removed from extracted water and 500 pounds of separate phase product has been removed by the oil/water separator. Table 5 shows that an estimated 2,523 pounds of hydrocarbon has been removed from extracted soil vapor. Figure 9 graphically depicts the measured amounts in pounds of hydrocarbons removed from groundwater, vapor effluent, and as free product. An estimated 3,163 pounds of hydrocarbon has been removed and treated since system installation.

5. WORK PROPOSED FOR THE NEXT QUARTER

During the second quarter of 1998, wells MW3, MW26, and MW28 will be sampled and analyzed for BTEX, TPH-g, MTBE, and HVOCs.

The MPE system will continue to be operated.

Figures

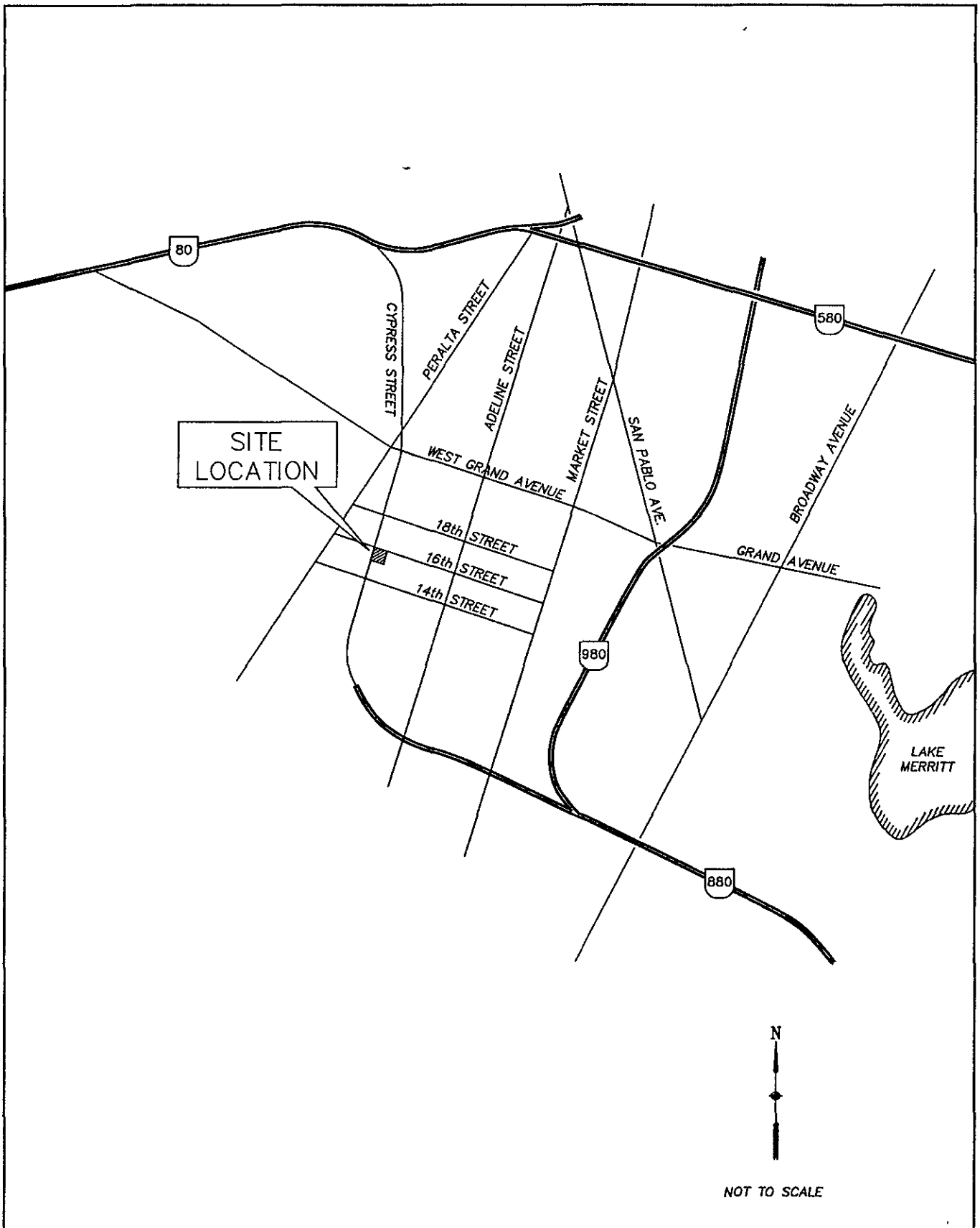

FIGURE 1.
SITE LOCATION MAP
NESTLE FACILITY, 1310 14th STREET,
OAKLAND, CALIFORNIA.

EA® EA ENGINEERING, SCIENCE, AND TECHNOLOGY

PROJECT NO:	DATE
60966.01.0008	5/14/97
FILE NAME:	REVIEWED BY:
LOCATION.DWG	Joe Muehleck

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

Figure 2. Site plan showing wells monitored for the presence of NAPL, Nestle USA Facility, 1310 14th Street, Oakland, California.

E.DWG: 041798

LEGEND:

- GROUNDWATER MONITORING AND VAPOR EXTRACTION WELLS
- WELL OF UNKNOWN CONSTRUCTION

- Monitored wells having no detectable NAPL
- Wells containing >0.01 feet of NAPL
- Wells containing >1.0 feet of NAPL

NAPL Monitoring Results	
Total wells monitored	57
Wells containing no detectable NAPL	26
Wells containing >0.01 feet of NAPL	31
Wells containing >1.0 feet of NAPL	13

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Figure 3. Site plan showing distribution of NAPL, Nestle USA Facility, 1310 14th Street, Oakland, California.

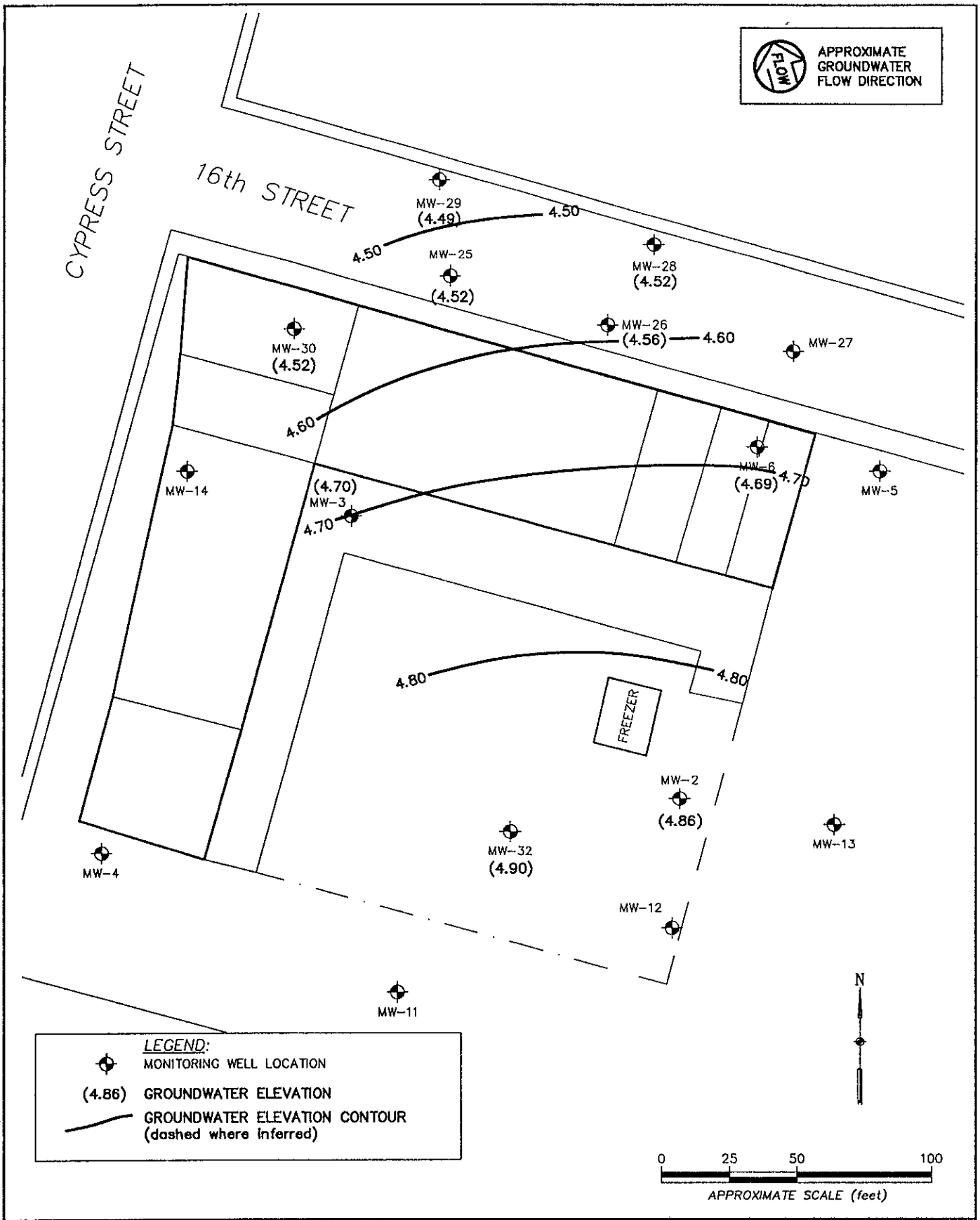

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Figure 4. Groundwater elevations in wells sampled for dissolved hydrocarbons, Nestle Facility, Oakland, California. 27 October 1997.

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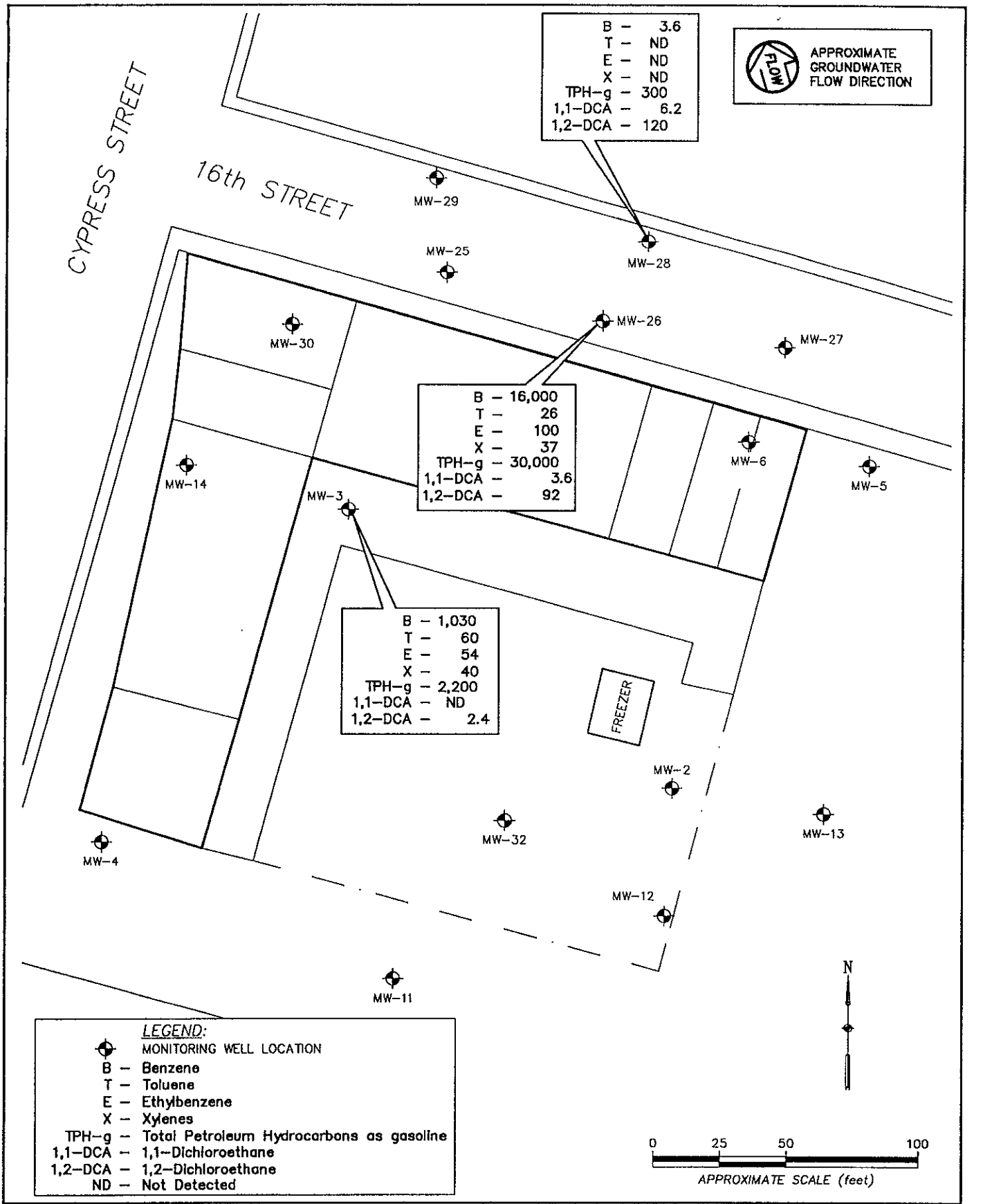

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Figure 5. Groundwater sampling analytical results (ug/L), Nestle Facility, Oakland, California. 27 October 1997.

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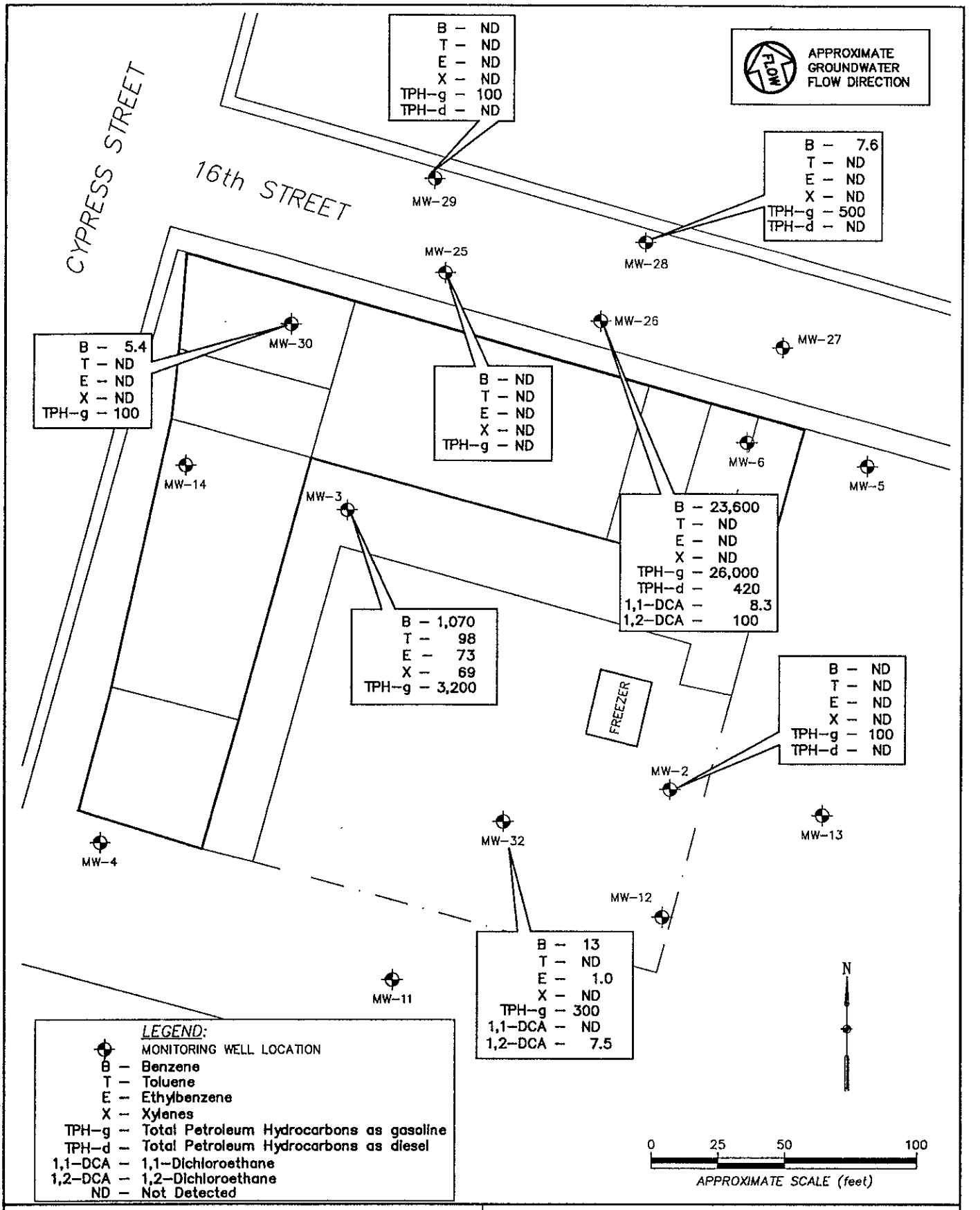

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Figure 6. Groundwater sampling analytical results (ug/L), Nestle Facility, Oakland, California. 27 January 1998.

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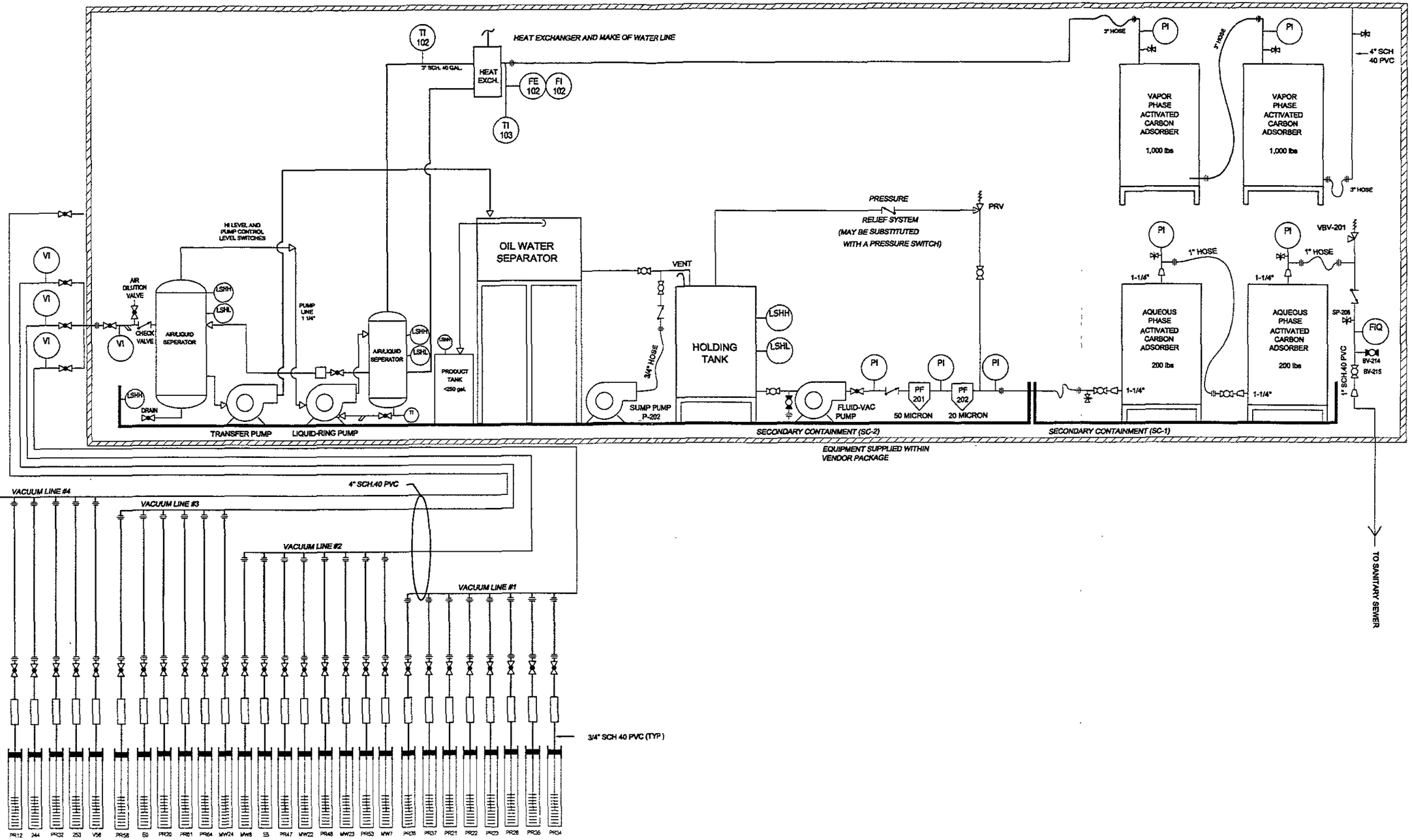

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Figure 7. Piping and instrumentation diagram of the multiphase remediation system, Nestle USA Facility, 1310 14th Street, Oakland, California.

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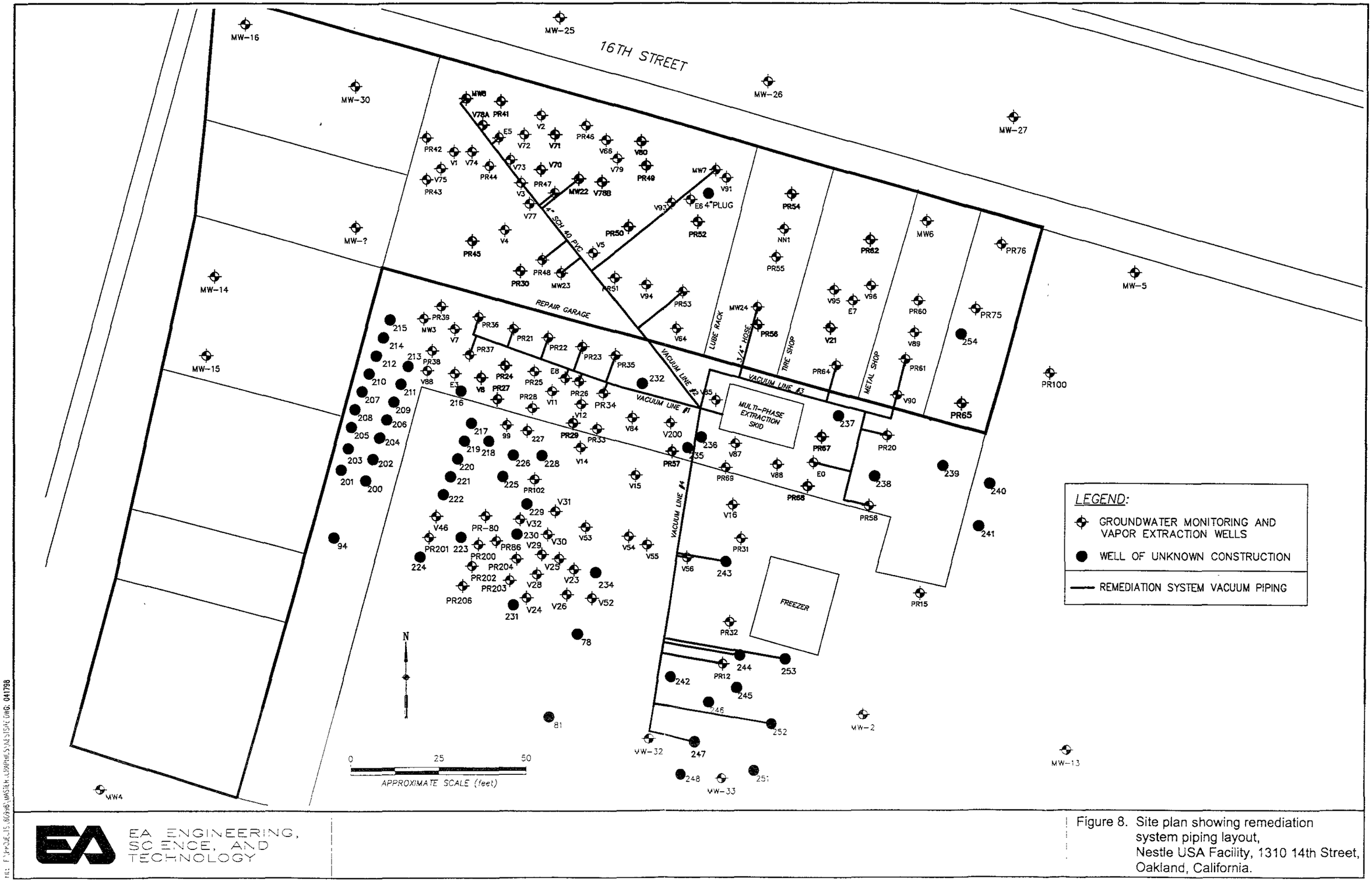

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Figure 8. Site plan showing remediation system piping layout, Nestle USA Facility, 1310 14th Street, Oakland, California.

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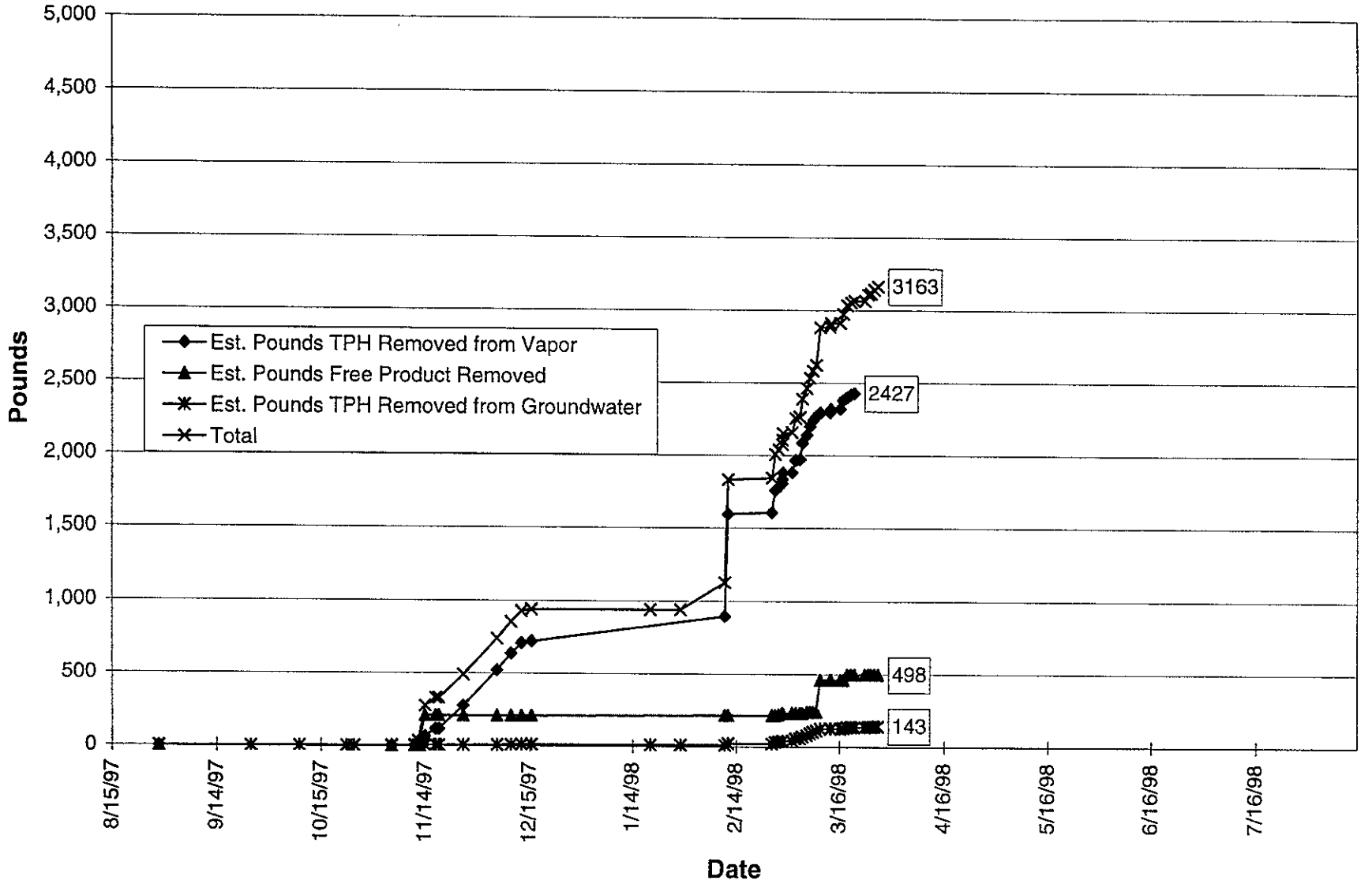
Figure 9: Total Pounds of Hydrocarbons Removed from Groundwater and Vapor Effluents and as Free Product Nestle' Facility, 1310 14th Street, Oakland, California



f:\projects\60966.01\public\o\tables\otable.xls-Graph - Vapor + Water + Product

Tables

TABLE 1 PRODUCT THICKNESS (ft), FORMER CARNATION DAIRY FACILITY, OAKLAND, CALIFORNIA, NOVEMBER 1993 - MARCH 1998

Well	11/4/93	2/24/93	3/18/94	6/2/94	8/31/94	12/22/94	3/13/95	6/9/95	7/27/95	9/22/95	12/6-28/95	2/27/96	2/29/96	6/20/96	8/30/96	9/18/96	10/4/96	10/11/96	10/18/96	10/22/96	11/22/96	12/6/96	12/17/96	12/21/96	1/3/97	1/14/97	2/10/97	2/17/97	2/28/97	3/7/97	3/14/97	3/28/97	4/11/97	4/17/97	4/25/97	5/2/97	5/9/97	5/16/97	6/6/97
MW-7	0.79	1.14	2.82	0.26	0.01	0.04	<0.01	<0.01	--	0.21	--	<0.01	--	0.02	0.20	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	0.47	0.44	0.30	0.31	0.31	0.26	0.08	0.09	0.23	0.24	0.24	<0.01	--	0.03	0.04	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-22	1.83	1.54	>3.0	1.14	0.19	0.03	<0.01	<0.01	<0.01	0.32	0.30	<0.01	--	0.01	0.04	0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-23	1.21	0.07	1.40	1.79	0.68	0.41	<0.01	0.31	0.44	0.71	0.30	0.19	0.15	1.00	0.24	0.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24	1.77	12.10	>3.0	0.97	0.39	<0.01	<0.01	<0.01	--	1.41	<0.01	<0.01	--	2.46	1.45	1.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-0	--	--	--	--	--	--	--	--	2.72	--	<0.01	3.92	0.07	0.18	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.38	1.55	1.45	0.3	0.39	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
E-5	--	--	--	--	--	--	--	--	--	--	1.50	0.27	0.03	0.10	0.01	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-8	--	--	--	--	--	--	--	--	0.10	--	0.42	0.19	0.02	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-20	0.91	1.15	3.41	1.45	0.88	1.04	0.14	0.16	2.54	1.12	<0.01	3.5	2.65	3.50	0.69	0.47	0.36	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-21	0.63	--	2.76	1.39	0.42	2.01	4.11	2.42	1.93	0.70	0.60	2.99	0.77	1.50	0.86	0.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-22	0.98	1.43	>3.0	0.90	0.47	0.04	0.60	0.71	0.68	0.71	0.23	1.57	0.94	1.20	0.47	0.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-23	0.67	0.36	1.06	0.38	0.17	0.06	0.34	0.06	0.08	0.12	0.11	<0.01	--	<0.01	0.09	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-24	--	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-26	0.6	0.54	2.05	0.39	0.17	<0.01	<0.01	<0.01	--	0.13	0.12	0.27	<0.01	0.01	0.07	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-27	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-30	--	--	--	2.81	1.21	1.97	<0.01	<0.01	--	Dry	Dry	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-34	0.66	1.17	2.81	1.07	0.37	2.45	4.06	3.54	2.30	1.03	0.58	5.10	1.22	1.95	1.14	0.48	0.33	0.23	0.01	<0.01	<0.01	0.26	0.59	0.25	<0.01	<0.01	0.75	0.67	0.98	1.15	1.23	0.65	1.31	0.8	1.06	0.7	0.66	0.64	0.75
PR-35	0.62	1.26	>3.0	1.7	0.12	0.13	0.85	0.91	0.84	0.73	0.4	0.20	0.11	0.22	0.33	0.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-36	-	1.13	1.43	1.13	0.37	0.19	0.15	0.23	0.22	Dry	Dry	0.20	0.05	0.01	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-37	0.41	1.29	2.35	0.96	0.14	0.22	0.83	0.82	0.58	0.58	0.18	1.14	0.32	0.20	0.19	0.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-41	0.59	0.53	0.42	0.13	0.43	0.03	<0.01	<0.01	--	Dry	Dry	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-44	0.24	0.22	0.19	<0.01	<0.01	<0.01	<0.01	<0.01	--	Dry	-	<0.01	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-45	0.17	5.27	0.10	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-47	0.75	0.41	sheen	<0.01	<0.01	0.01	<0.01	<0.01	--	0.08	0.08	<0.01	--	<0.01	0.08	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-48	1.12	0.20	>3.0	0.83	0.07	1.43	0.64	0.65	0.94	0.50	0.54	0.11	0.06	2.06	1.36	0.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-49	--	3.24	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	Dry	Dry	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-50	1.08	1.58	0.89	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-51	--	6.57	>3.0	<0.01	0.72	2.02	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	--	Dry	Dry	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-52	1.01	5.09	1.16	0.45	0.05	0.03	<0.01	<0.01	<0.01	<0.01	-	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-53	1.15	3.01	>3.0	0.61	0.49	1.52	<0.01	1.55	1.47	1.08	0.17	0.90	0.27	1.01	0.81	0.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-54	0.97	0.99	1.20	<0.01	0.08	0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-55	1.48	0.07	1.31	0.87	<0.01	0.01	<0.01	Dry	Dry	Dry	-	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-56	0.90	1.30	--	0.89	0.15	1.48	<0.01	<0.01	0.01	<0.01	-	<0.01	--	<0.01	<0.01	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-57	--	6.40	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	-	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-58	0.96	0.85	--	1.48	0.89	2.15	1.41	1.34	2.40	1.18	0.57	2.67	1.25	2.79	1.47	1.01	--	0.52	0.23	0.11	<0.01	<0.01	<0.01	<0.01	0.2	1.04	2.3	2.4	2.21	2.45	--	2.45	2.14	1.8	2.06	1.79	1.64	1.49	1.44
PR-60	--	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-61	0.25	0.39	0.35	1.03	<0.01	0.01	<0.01	<0.01	1.30	<0.01	<0.01	1.48	0.45	1.96	0.93	0.38	--	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.45	0.34	0.6	0.55	0.77	0.02	0.17	0.33	0.42	0.27	0.4	0.34	0.32
PR-62	0.04	--	0.07	0.09	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-64	1.49	0.11	>3.0	--	1.06	2.15	1.03	1.17	2.12	1.15	0.58	3.08	0.4	3.15	1.01	--	0.82	0.69	0.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-65	0.04	0.02	0.09	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-67	1.05	0.65	0.81	--	--	--	--	--	0.05	--	<0.01	<0.01	--	0.03	0.10	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-70	--	--	1.59	--	--	--	--	--	--	--	--	--	--	*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-8	--	--	--	--	--	--	--	--	0.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-55	--	--	--	--	--	--	--	--	--	--	0.04	--	--	<0.01	<0.01	*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-77	--	--	--	--	--	--	--	--	0.78	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-78A	--	--	--	--	--	--	--	--	0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-78B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-90	--	1.41	--	0.94	0.6	1.68	0.02	0.02	Dry	Dry	<0.01	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-94	--	--	--	--	--	--	--	--	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
243	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
244	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
247	--	--	--	--	--	--	--	--	--	--	-	--	--	--	--	--	--	--	--	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
253	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Well not monitored

* Well inaccessible

a Lots of oil in well

b Mud in well at 3.80 feet

TABLE 1 (extended)

Well	7&8/97	2/10/98	3/4/98	3/18/98
MW-7	0.03	<0.01	<0.01	--
MW-8	<0.01	<0.01	<0.01	--
MW-22	<0.01	<0.01	<0.01	--
MW-23	1.60	0.51	0.55	--
MW-24	1.56	0.25	0.16	--
E-0	<0.01	0.02	0.03	--
E-5	0.24	<0.01	<0.01	--
E-8	0.25	--	0.22	--
PR-12	0.10	--	--	--
PR-20	1.19	3.40	4.77	--
PR-21	1.21	4.28	0.03	<0.01
PR-22	0.01	4.54	0.01	--
PR-23	0.06	<0.01	0.01	<0.01
PR-24	<0.01	--	--	<0.01
PR-26	0.11	3.39	0.09	<0.01
PR-27	<0.01	--	--	<0.01
PR-29	<0.01	--	--	<0.01
PR-30	Dry	--	<0.01	<0.01
PR-32	<0.01	<0.01	0.02	--
PR-34	0.93	3.18	0.05	--
PR-35	0.90	0.71	<0.01	--
PR-36	Dry	0.54	0.10	--
PR-37	0.31	<0.01	0.06	--
PR-41	Dry	--	<0.01	--
PR-44	Dry	--	--	--
PR-45	<0.01	--	--	--
PR-47	0.02	<0.01	<0.01	--
PR-48	--	1.30	0.01	<0.01
PR-49	<0.01	--	<0.01	<0.01
PR-50	<0.01	--	<0.01	<0.01
PR-51	Dry	--	0.17	<0.01
PR-52	<0.01	--	<0.01	--
PR-53	0.02	<0.01	<0.01	--
PR-54	<0.01	--	<0.01	--
PR-55	Dry	--	0.02	--
PR-56	Dry	--	<0.01	--
PR-57	<0.01	--	<0.01	--
PR-58	0.85	4.25	5.22	--
PR-60	Dry	--	--	--
PR-61	0.49	0.55	1.14	--
PR-62	<0.01	--	--	--
PR-64	1.42	2.93	4.61	--
PR-65	Dry	--	<0.01	--
PR-67	<0.01	--	<0.01	--
PR-68	<0.01	--	<0.01	--
PR-70	--	--	--	--
V-8	Dry	--	<0.01	--
V-21	Dry	--	<0.01	--
V-55	<0.01	--	0.05	--
V-56	0.66	--	--	--
V-70	Dry	--	<0.01	<0.01
V-71	Dry	--	--	<0.01
V-77	<0.01	--	--	0.19
V-78A	<0.01	--	<0.01	--
V-78B	<0.01	--	<0.01	--
V-80	--	--	--	<0.01
V-90	Dry	--	--b	--
V-94	Dry	--	--	--
243	1.88	<0.01	0.01	--
244	0.15	<0.01	<0.01	--
247	<0.01	<0.01	<0.01	--
253	1.13	0.66	1.04	--

-- Well not monitored.

* Well inaccessible.

a Lots of oil in well.

b Mud in well at 3.80 feet.

TABLE 2 GAUGING DATA FOR MONITORING WELLS AT THE FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1994–1998

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-1	02/24/94	16.49	--	10.41	--	6.08
	03/18/94		--	8.51	--	7.98
	06/02/94		--	10.83	--	5.66
MW-2	02/24/94	15.11	--	9.21	--	5.90
	03/18/94		--	7.47	--	7.64
	06/02/94		--	9.65	--	5.46
	08/31/94		--	10.49	--	4.62
	12/22/94		--	8.74	--	6.37
	03/13/95		--	6.87	--	8.24
	06/09/95		--	8.47	--	6.64
	09/22/95		--	9.42	--	5.69
	12/12/95		--	10.23	--	4.88
	12/18/95		--	9.87	--	5.24
	03/12/96		--	6.70	--	8.41
	06/21/96		--	8.22	--	6.89
	08/29/96		--	9.59	--	5.52
	01/16/97		--	7.07	--	8.04
	04/15/97		--	8.21	--	6.90
	07/07/97		--	9.40	--	5.71
	10/27/97		--	**10.25**	--	**4.86**
	01/27/98		--	**6.74**	--	**8.37**
MW-3	02/24/94	14.30	--	8.47	--	5.83
	03/18/94		--	7.23	--	7.07
	06/02/94		--	8.93	--	5.37
	08/31/94		--	9.91	--	4.39
	12/22/94		--	8.14	--	6.16
	03/13/95		--	6.64	--	7.66
	06/09/95		--	7.82	--	6.48
	09/22/95		--	9.08	--	5.22
	12/06/95		--	9.97	--	4.33
	12/12/95		--	9.53	--	4.77
	12/18/95		--	9.21	--	5.09
	03/12/96		--	6.31	--	7.99
	06/21/96		--	7.78	--	6.52
	08/29/96		--	9.05	--	5.25
	01/16/97		--	7.12	--	7.18
	04/15/97		--	7.78	--	6.52
	07/07/97		--	8.82	--	5.48
	10/27/97		--	**9.60**	--	**4.70**
	01/27/98		--	**6.40**	--	**7.90**
MW-4	02/24/94	14.42	--	8.09	--	6.33
	03/18/94		--	7.00	--	7.42

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-4	12/18/95	14.42	--	dry		--
	03/12/96		--	6.45	--	7.97
MW-5	02/24/94	14.41	--	8.08	--	6.33
	03/18/94		--	7.14	--	7.27
	06/02/94		--	9.09	--	5.32
	08/31/94		--	9.95	--	4.46
	12/22/94		--	8.22	--	6.19
	12/12/95		--	9.60	--	4.81
	03/12/96		--	6.46	--	7.95
MW-6	02/24/94	14.12	--	8.34	--	5.78
	03/18/94		--	7.04	--	7.08
	06/02/94		--	8.88	--	5.24
	08/31/94		--	9.65	--	4.47
	12/22/94		--	7.99	--	6.13
	03/13/95		--	6.32	--	7.80
	06/09/95		--	8.53	--	5.59
	09/22/95		--	8.63	--	5.49
	12/12/95		--	9.36	--	4.76
	12/18/95		--	9.16	--	4.96
	03/12/96		--	6.03	--	8.09
	06/21/96		--	7.67	--	6.45
	08/29/96		--	8.93	--	5.19
	01/16/97		--	6.92	--	7.20
	04/15/97		--	7.65	--	6.47
	07/07/97		--	8.67	--	5.45
	10/27/97		--	**9.43**	--	**4.69**
MW-7	02/24/94	14.29	8.64	9.78	1.14	4.51
	03/18/94		6.56	9.38	2.82	4.91
	06/02/94		9.12	9.38	0.26	4.91
	08/31/94		9.87	9.88	0.01	4.41
	12/22/94		8.29	8.33	0.04	5.96
	03/13/95		--	6.72	--	7.57
	06/09/95		--	8.79	--	5.50
	09/22/95		9.30	9.51	0.21	4.78
MW-8	02/24/94	14.20	8.55	8.99	0.44	5.21
	03/18/94		7.34	7.64	0.30	6.56
	06/02/94		8.93	9.24	0.31	4.96
	08/31/94		9.82	10.13	0.31	4.07
	12/22/94		8.21	8.47	0.26	5.73
	03/13/95		6.77	6.85	0.08	7.35
	06/09/95		8.81	8.90	0.09	5.30

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-8	07/27/95	14.20	8.32	8.55	0.23	5.65
	09/22/95		9.29	9.53	0.24	4.67
	12/06/95		9.94	10.18	0.24	4.02
	12/18/95		9.16	9.36	0.20	4.84
	12/18/95		--	9.62	--	4.58
	12/18/95		--	9.25	--	4.95
	12/19/95		9.21	9.30	0.09	4.90
	12/19/95		9.34	9.35	0.01	4.85
	12/19/95		9.25	9.28	0.03	4.92
	12/28/95		9.22	9.27	0.05	4.93
MW-9	06/02/94	14.96	--	9.46	--	5.50
MW-10	02/24/94	15.73	--	9.59	--	6.14
	03/18/94		--	--	--	--
	06/02/94		--	10.17	--	5.56
MW-11	03/18/94	14.55	--	6.95	--	7.60
	06/02/94		--	8.99	--	5.56
	08/31/94		--	9.80	--	4.75
	12/22/94		--	8.15	--	6.40
	12/18/95		--	9.29	--	5.26
	03/12/96		--	5.95	--	8.60
MW-12	03/18/94	15.28	--	7.62	--	7.66
	12/18/95		--	10.03	--	5.25
	07/07/97		--	9.48	--	5.80
MW-13	02/24/94	14.85	--	8.94	--	5.91
	03/18/94		--	8.62	--	6.23
	06/02/94		--	9.34	--	5.51
	08/31/94		--	10.15	--	4.70
	12/22/94		--	8.45	--	6.40
	12/12/95		--	9.94	--	4.91
	12/18/95		--	9.60	--	5.25
	03/12/96		--	6.40	--	8.45
MW-14	02/24/94	14.10	--	dry	--	--
	03/18/94		--	dry	--	--
	12/06/95		--	dry	--	--
MW-15	12/06/95	14.17	--	dry	--	--
MW-16	12/06/95	14.11	--	dry	--	--

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-22	02/24/94	14.44	8.59	10.13	1.54	4.31
	03/18/94		6.98	--	>3.0	--
	06/02/94		9.02	10.16	1.14	4.28
	08/31/94		9.97	10.16	0.19	4.28
	12/22/94		8.39	8.42	0.03	6.02
	03/13/95		--	5.92	--	8.52
	06/09/95		--	8.60	--	5.84
	07/27/95		--	8.49	--	5.95
	09/22/95		9.42	9.74	0.32	4.70
	12/06/95		10.08	10.38	0.30	4.06
	12/18/95		--	9.35	--	5.09
MW-23	02/24/94	14.48	8.87	8.94	0.07	5.54
	03/18/94		7.04	8.44	1.40	6.04
	06/02/94		8.21	10.00	1.79	4.48
	08/31/94		9.93	10.61	0.68	3.87
	12/22/94		8.32	8.73	0.41	5.75
	03/13/95		--	5.52	--	8.96
	06/09/95		8.24	8.55	0.31	5.93
	07/27/95		8.43	8.87	0.44	5.61
	09/22/95		9.35	10.06	0.71	4.42
	12/06/95		--	10.07	--	4.41
	12/18/95		9.40	9.70	0.30	4.78
	12/18/95		--	9.89	--	4.59
	12/18/95		9.46	9.49	0.03	4.99
	12/19/95		9.45	9.55	0.10	4.93
	12/19/95		--	9.88	--	4.60
	12/19/95		9.48	9.52	0.04	4.96
	12/28/95		9.40	9.52	0.12	4.96
MW-24	02/24/94	14.67	8.95	--	12.10	--
	03/18/94		7.45	--	>3.0	--
	06/02/94		9.11	10.08	0.97	4.59
	08/31/94		10.19	10.58	0.39	4.09
	12/22/94		--	8.55	--	6.12
	03/13/95		--	6.68	--	7.99
	06/09/95		--	9.54	--	5.13
	09/22/95		9.35	10.76	1.41	3.91
	12/06/95		10.39	10.39	--	4.28
MW-25	02/24/94	12.86	--	7.36	--	5.50
	03/18/94		--	6.14	--	6.72
	06/02/94		--	7.93	--	4.93

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-25	08/31/94	12.86	--	8.75	--	4.11
	12/22/94		--	7.01	--	5.85
	03/13/95		--	5.77	--	7.09
	06/09/95		--	6.75	--	6.11
	09/22/95		--	7.45	--	5.41
	12/12/95		--	8.18	--	4.68
	12/18/95		--	7.84	--	5.02
	03/12/96		--	5.38	--	7.48
	06/21/96		--	6.50	--	6.36
	08/29/96		--	7.72	--	5.14
	01/16/97		--	6.00	--	6.86
	04/15/97		--	6.44	--	6.42
	07/07/97		--	7.53	--	5.33
	10/27/97		--	**8.34**	--	**4.52**
	01/27/98		--	**5.37**	--	**7.49**
MW-26	02/24/94	12.71	--	7.21	--	5.50
	03/18/94		--	5.83	--	6.88
	06/02/94		--	7.68	--	5.03
	08/31/94		--	8.47	--	4.24
	12/22/94		--	6.98	--	5.73
	03/13/95		--	5.25	--	7.46
	06/09/95		--	6.47	--	6.24
	09/22/95		--	7.23	--	5.48
	12/12/95		--	7.99	--	4.72
	12/18/95		--	7.69	--	5.02
	03/12/96		--	4.86	--	7.85
	06/21/96		--	6.30	--	6.41
	08/29/96		--	7.51	--	5.20
	01/16/97		--	5.70	--	7.01
	04/15/97		--	7.48	--	5.23
	07/07/97		--	7.38	--	5.33
	10/27/97		--	**8.15**	--	**4.56**
	01/27/98		--	**5.12**	--	**7.59**
MW-27	02/24/94	14.04	--	8.41	--	5.63
	03/18/94		--	7.23	--	6.81
	06/02/94		--	8.94	--	5.10
	12/12/95		--	9.30	--	4.74
	06/21/96		--	7.64	--	6.40
	08/29/96		--	8.82	--	5.22
	01/16/97		--	7.06	--	6.98

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-27	04/15/97	14.04	--	7.36	--	6.68
MW-28	02/24/94	13.45	--	7.98	--	5.47
	03/18/94		--	6.65	--	6.80
	06/02/94		--	8.28	--	5.17
	08/31/94		--	9.03	--	4.42
	12/22/94		--	6.73	--	6.72
	03/13/95		--	5.93	--	7.52
	06/09/95		--	7.20	--	6.25
	09/22/95		--	8.37	--	5.08
	12/12/95		--	9.00	--	4.45
	12/18/95		--	8.44	--	5.01
	03/12/96		--	5.62	--	7.83
	06/21/96		--	7.08	--	6.37
	08/29/96		--	9.30	--	4.15
	01/16/97		--	6.50	--	6.95
	04/15/97		--	7.17	--	6.28
	07/07/97		--	8.26	--	5.19
	10/27/97		--	**8.93**	--	**4.52**
	01/27/98		--	**5.81**	--	**7.64**
MW-29	02/24/94	12.60	--	7.20	--	5.40
	03/18/94		--	5.82	--	6.78
	06/02/94		--	7.62	--	4.98
	08/31/94		--	8.44	--	4.16
	12/22/94		--	7.00	--	5.60
	03/13/95		--	5.55	--	7.05
	06/09/95		--	6.59	--	6.01
	09/22/95		--	7.58	--	5.02
	12/12/95		--	8.02	--	4.58
	12/18/95		--	7.76	--	4.84
	03/12/96		--	5.01	--	7.59
	06/21/96		--	6.33	--	6.27
	08/29/96		--	7.50	--	5.10
	01/16/97		--	5.78	--	6.82
	04/15/97		--	6.36	--	6.24
	07/07/97		--	7.33	--	5.27
	10/27/97		--	**8.11**	--	**4.49**
	01/27/98		--	**5.15**	--	**7.45**
MW-30	02/24/94	14.54	--	8.95	--	5.59
	03/18/94		--	7.79	--	6.75
	06/02/94		--	9.47	--	5.07
	08/31/94		--	10.27	--	4.27
	12/22/94		--	8.64	--	5.90

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-30	03/13/95	14.54	--	7.23	--	7.31
	06/09/95		--	8.34	--	6.20
	09/22/95		--	9.41	--	5.13
	12/06/95		--	10.35	--	4.19
	12/12/95		--	9.90	--	4.64
	12/18/95		--	9.55	--	4.99
	03/12/96		--	6.93	--	7.61
	06/21/96		--	8.23	--	6.31
	08/29/96		--	9.53	--	5.01
	01/16/97		--	7.72	--	6.82
	04/15/97		--	8.31	--	6.23
	07/07/97		--	9.28	--	5.26
	10/27/97		--	**10.02**	--	**4.52**
	01/27/98		--	**7.04**	--	**7.50**
MW-31	06/02/94	14.92	--	9.42	--	5.50
MW-32	02/24/94	14.76	--	8.95	--	5.81
	03/18/94		--	7.25	--	7.51
	06/02/94		--	9.28	--	5.48
	08/31/94		--	10.12	--	4.64
	12/22/94		--	8.40	--	6.36
	03/13/95		--	6.63	--	8.13
	06/09/95		--	7.94	--	6.82
	09/22/95		--	9.32	--	5.44
	12/12/95		--	9.84	--	4.92
	12/18/95		--	9.53	--	5.23
	03/12/96		--	6.23	--	8.53
	06/21/96		--	7.85	--	6.91
	08/29/96		--	9.22	--	5.54
	01/16/97		--	7.14	--	7.62
	04/15/97		--	7.89	--	6.87
	07/07/97		--	9.00	--	5.76
	10/27/97		--	**9.86**	--	**4.90**
	01/27/98		--	**6.35**	--	**8.41**

-- Product not present.

TABLE 3 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–1998

Well No.	Date Sampled	Concentration (µg/L)											
		Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-2	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	--	--	--	--	--	--	--	--	--	--	--	
	02/25/94	<1	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	<0.5	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	<0.3	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	03/13/95	0.8	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	a
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	0.7	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	<0.5	<0.5	<0.5	<0.5	<50	<150	0.7	<0.5	<0.5	<0.5	--	
	07/07/97	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	<0.5	
	01/27/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	***100***	***<150***	**--**	**--**	**--**	**--**	**<0.5**	
MW-3	03/23/93	35	2.9	2	3.2	300	ND	--	--	--	--	--	
	07/27/93	97	1	4	1.1	220	ND	--	--	--	--	--	
	11/05/93	4.9	ND	ND	1.2	170	ND	--	--	--	--	--	
	02/25/94	42	<1	<1	<1	100	<1,000	--	--	--	--	--	
	06/03/94	120	8.2	8.4	4.5	320	<20,000	--	--	--	--	--	
	08/31/94	83	1.1	5.3	2.9	<500	<500	--	--	--	--	--	
	12/22/94	1,460	18	100	50	3,800	270	--	--	--	--	--	
	03/13/95	3,600	260	270	280	14,000	1,700	--	--	--	--	--	
	06/09/95	4,700	58	140	71	3,700	120	--	--	--	--	--	
	09/21/95	9,800	58	600	95	14,000	300	--	--	--	--	--	
	12/12/95	330	2.1	47	5.3	700	<50	--	--	--	--	--	
	03/12/96	350	4.6	23	8.7	600	<50	--	--	--	--	--	
	06/21/96	940	76	98	57	1,900	<50	--	--	--	--	--	
	08/29/96	420	29	44	28	900	<150	--	--	--	--	--	
	01/16/97	1,600	270	120	194	3,600	700	<0.5	9.2	<0.5	<0.5	--	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L)											Notes
		Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	
MW3	04/15/97	1,300	300	180	160	4,300	800	<0.5	16	<0.5	1.1	6.9	
	07/07/97	100	84	100	67	1,900	350	--	--	--	--	3.8	
	10/27/97	**1,030**	**60**	**54**	**40**	**2,200**	**--**	**<0.5**	**2.4**	**<0.5**	**<0.5**	**3.1**	
	01/27/98	**1,070**	**98**	**73**	**69**	**3,200**	**--**	**--**	**--**	**--**	**--**	**3.9**	
MW-6	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	02/25/94	<1	<1	<1	3.5	<100	<1,000	--	--	--	--	--	
	06/03/94	2.7	<0.5	<0.5	<0.5	69	<20,000	--	--	--	--	--	
	08/31/94	<0.3	8.7	1.6	3.5	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	1.2	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	06/09/95	0.6	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	5.5	16	2.9	16	140	220	<0.5	6.3	<0.5	<0.5	--	
	07/07/97	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	<0.5	
MW-25	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	4.2	4.4	2.5	20	170	ND	--	--	--	--	--	
	02/25/94	2.1	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	2.4	14	<0.5	3.4	97	<20,000	--	--	--	--	--	
	08/31/94	0.5	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.58	<0.5	<0.5	<0.5	150	950	--	--	--	--	--	
	06/09/95	0.8	<0.5	<0.5	<0.5	<100	60	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-25	03/12/96	<0.5	<0.5	<0.5	<0.5	120	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	90	<150	--	--	--	--	--	
	01/16/97	0.6	<0.5	<0.5	<0.5	80	<150	25	41	<0.5	<0.5	--	
	07/07/97	<0.5	<0.5	<0.5	<0.5	140	<150	--	--	--	--	11	
	01/28/97	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<100**	**--**	**--**	**--**	**--**	**--**	**10**	
MW-26	03/23/93	180	190	55	330	7,000	1,300	ND	ND	ND	ND	--	
	07/27/93	470	96	30	80	1,800	ND	ND	140	ND	ND	--	
	11/05/93	4,700	1,300	9	1,400	19,000	ND	ND	120	ND	ND	--	
	02/25/94	4,800	570	200	860	14,000	<1,000	<1	28	<1	<1	--	
	06/03/94	4,100	300	120	230	12,000	<20,000	1.7	140	<0.5	<0.5	--	c
	08/31/94	4,100	360	170	450	93,000	1,400	<4.0	<4.0	<4.0	<4.0	--	
	12/22/94	1,030	170	85	290	5,000	560	<2.0	<2.0	<2.0	<2.0	--	d
	03/13/95	320	19	23	66	3,000	810	53	5.8	<0.5	<0.5	--	
	06/09/95	14,000	64	31	230	10,800	310	240	3.1	1	<0.5	--	
	09/21/95	1,900	160	160	330	8,000	200	1.3	120	<0.5	<0.5	--	
	12/12/95	13,000	38	36	120	25,000	0.6	1.4	180	<0.5	<0.5	--	b
	03/12/96	9,000	33	30	65	4,400	<50	<0.5	180	<0.5	<0.5	--	
	06/21/96	14,000	27	16	66	5,400	<50	3.2	170	<0.5	<0.5	--	
	08/29/96	8,500	26	28	74	19,000	<150	<0.5	160	<0.5	<0.5	--	
	01/16/97	6,500	21	31	47	4,600	--	4.3	>50	<0.5	<0.5	26	
	04/15/97	16,000	33	40	160	26,000	2,200	3.5	97	<0.5	2.4	40	e
	07/07/97	22,000	44	170	200	28,000	1,100	<5.0	<5.0	<5.0	<5.0	95	
	10/27/97	**16,000**	**26**	**100**	**37**	**30,000**	**--**	**3.6**	**92**	**<0.5**	**<0.5**	**38**	
	01/27/98	**23,600**	**<5.0**	**<5.0**	**<5.0**	**26,000**	**420**	**8.3**	**100**	**<0.5**	**<0.5**	**100**	
MW-27	06/21/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5	6.8	<0.5	<0.5	--	
	08/29/96	--	--	--	--	--	--	--	--	--	--	--	
	01/16/97	12	5.0	<0.5	2.6	70	<150	<0.5	5.7	<0.5	<0.5	--	
MW-28	03/23/93	ND	ND	ND	ND	110	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW28	11/05/93	ND	ND	ND	2.1	ND	ND	--	--	--	--	--	
	02/25/94	<1	<1	<1	<1	<100	<1	--	--	--	--	--	
	06/03/94	3.1	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	1.4	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.91	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	06/21/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	18	20	2.2	13	220	<150	5.1	85	<0.5	<0.5	8.2	
	04/15/97	<0.5	<0.5	<0.5	<0.5	120	<150	1.1	150	<0.5	<0.5	7.1	
	07/07/97	<0.5	<0.5	<0.5	<0.5	110	<150	<5.0	170	<5.0	<5.0	7.2	
	10/27/97	**3.6**	**<0.5**	**<0.5**	**<0.5**	**300**	**--**	**6.2**	**120**	**<0.5**	**<0.5**	**36**	
	01/27/98	**7.6**	**<0.5**	**<0.5**	**<0.5**	**500**	**<150**	**--**	**--**	**--**	**--**	**56**	
MW-29	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	ND	ND	2.1	11	ND	ND	--	--	--	--	--	
	02/25/94	<1	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	<0.5	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	<0.3	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.59	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	6.6	8.9	0.6	9.3	120	<150	47	24	<0.5	<0.5	1.8	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW29	07/07/97	<0.5	<0.5	<0.5	<0.5	<50	<150	52	21	<5.0	<5.0	1.2	
	01/27/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**100**	**<150**	--	--	--	--	**8.0**	
MW-30	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	ND	ND	ND	2.8	ND	ND	--	--	--	--	--	
	02/25/94	1.3	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	1.1	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	0.8	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	0.6	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.98	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	<0.5	<0.5	<0.5	0.6	80	<150	<0.5	<0.5	<0.5	0.9	--	
	07/07/97	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	<0.5	
	01/27/98	**5.4**	**<0.5**	**<0.5**	**<0.5**	**100**	--	--	--	--	--	**<0.5**	
MW-32	03/23/93	391	6.2	3.1	9	440	ND	ND	60	ND	ND	--	
	07/27/93	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	--	
	11/05/93	20	ND	1.8	2.1	170	ND	ND	7.9	ND	ND	--	
	02/25/94	5.6	<1	<1	<1	<100	<1,000	<1	<1	<1	<1	--	
	06/03/94	120	1.3	<0.5	1.4	350	<20,000	<0.5	11	<0.5	<0.5	--	
	08/31/94	39	0.5	2.2	1.2	<500	<500	<4.0	10	<4.0	<4.0	--	
	12/22/94	4.8	<0.5	<0.5	<0.5	<50	<50	<2.0	4.6	<2.0	<2.0	--	a
	03/13/95	220	3.6	6.5	5.8	1,100	<400	<0.5	16	<0.5	<0.5	--	
	06/09/95	1,500	7.9	43	14	2,200	180	0.7	<0.5	0.5	<0.5	--	
	09/21/95	1,200	2.4	72	4.5	2,300	60	<0.5	6.7	<0.5	1.4	--	
	12/12/95	230	<0.5	8.9	<1.0	500	<50	<0.5	28	<0.5	<0.5	--	
	03/12/96	40	<0.5	1.7	<0.5	110	<50	<0.5	6.8	<0.5	<0.5	--	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW32	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	150	<0.5	49	<0.5	700	<150	<0.5	27	<0.5	<0.5	--	
	01/16/97	14	<0.5	1.9	<0.5	150	<150	<0.5	10	<0.5	0.7	--	f
	07/07/97	370	11	110	21	1,600	190	--	--	--	--	11	g
	01/27/98	**13**	**<0.5**	**1.0**	**<0.5**	**300**	**--**	**<0.5**	**7.5**	**<0.5**	**<0.5**	**2.5**	
Rinse Blank	**10/27/97**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**100**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3.1**	
Trip Blank	**10/27/97**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
Rinse Blank	**01/27/98**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<100**	**<150**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	
Trip Blank	**01/27/98**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<100**	**--**	**--**	**--**	**--**	**--**	**<0.5**	

Notes:
a. Non-diesel peak reported.
b. No diesel pattern detected; result due to high gasoline concentration.
c. Bromodichloromethane detected, 0.84 µg/L.
d. 8 other volatiles detected by 8260.
e. c 1,2-DCE detected, 0.7 µg/L.
f. c 1,2-DCE detected, 0.8 µg/L.
g. Values for benzene and ethylbenzene are estimated.

ND Not detected.
-- Not analyzed or not sampled.

TPH-g Total Petroleum Hydrocarbons as gasoline.
TPH-d Total Petroleum Hydrocarbons as diesel.
1,1-DCA 1,1-Dichloroethane.
1,2-DCA 1,2-Dichloroethane.
1,1,1-TCA 1,1,1-Trichloroethane.
c 1,2-DCE cis 1,2-Dichloroethylene.
TCE Trichloroethene.
MTBE Methyl t-butyl ether.

TABLE 4 OPERATION AND PERFORMANCE DATA- GROUNDWATER EXTRACTION SYSTEM NESTLE' FORMER CARNATION FACILITY, 1310 14TH STREET, OAKLAND, CALIFORNIA

Date	Hours of Operation	Percent Operational[1]	Flow Total (gallons)	Average Operational Flow Rate (gpm)[2]	Total Influent TPH Conc. (µg/L)	Est. Pounds TPH in Water Removed[3]	Est. Cumulative Pounds Free Product Removed[4]	
			350					
8/28/97	15.0	NA	700	NM		0.00	0	
11/4/97	0.2	0%	NM	NM	471,000	NM	0	
11/11/97	0.0	0%	1,440	NM		2.34	0	2 x 200 lb LGAC changed out
11/12/97	2.0	8%	1,446	0.05	286,000	0.02	0	
11/14/97	2.6	5%	1,820	2.40		0.99	209	
11/17/97	3.7	5%	2,610	3.56		2.09	209	
11/18/97	0.7	3%	2,820	5.00		0.56	209	
11/25/97	2.8	2%	2,870	NM		0.13	209	
12/5/97	3.0	1%	3,890	5.67		2.70	209	2 more 200 lb LGAC added in series
12/9/97	1.7	2%	4,380	4.80		1.30	209	
12/12/97	2.3	3%	4,900	3.77		1.38	209	
12/15/97	0.3	0%	5,020	6.67		0.32	209	
2/10/98	1.7	1%	5,369	NM	350,000	0.92	217	
2/11/98	11.6	47%	7,830	3.54		9.23	217	
2/24/98	0.6	0%	7,980	4.17		0.56	217	
2/25/98	11.6	49%	10,855	4.13	550,000	10.79	217	
2/26/98	1.9	8%	11,384	4.64		2.50	222	
2/27/98	2.3	9%	12,041	4.76		3.11	231	
2/27/98	1.7	93%	12,271	2.25		1.09	231	
2/27/98	2.2	50%	12,790	3.93		2.45	231	
3/2/98	0.3	0%	13,080	16.11		1.37	231	
3/3/98	12.1	50%	16,211	4.31		14.80	231	
3/4/98	0.5	2%	16,400	6.30		0.89	231	2 x 200 lb LGAC changed out
3/5/98	8.2	48%	18,750	4.78	584,000	11.11	231	
3/6/98	8.0	25%	21,195	5.09		10.19	240	
3/7/98	10.6	49%	23,968	4.36		11.56	240	
3/8/98	11.5	53%	26,380	3.50		10.05	240	
3/9/98	11.6	50%	28,980	3 74		10.84	240	
3/10/98	15.8	57%	32,094	3.28	416,000	12.98	463	
3/13/98	0.6	1%	32,293	5.53		0.37	463	3 x 200 lb LGAC changed out
3/13/98	2.6	43%	32,850	3.57		1.04	463	Shut down for weekend.
3/16/98	0.3	0%	33,055	11.39		0.38	463	Restarted after weekend.
3/17/98	9.4	45%	34,792	3.08		3.23	463	
3/18/98	9.3	36%	37,139	4.21	30,000	4.36	498	
3/19/98	12.2	44%	39,437	3.14		1.40	498	
3/20/98	7.3	33%	41,135	3.88		1.03	498	Shut down for weekend
3/23/98	0.3	0%	41,155	1.11		0.01	498	Restarted after weekend.
3/24/98	9.0	41%	43,100	3.60		1.18	498	
3/25/98	4 1	20%	44,178	4.38	116,000	0.66	498	Separation samples collected
3/26/98	11.2	47%	46,200	3.01		1.31	498	Separation samples collected
3/27/98	10.0	38%	48,445	3.74		1.46	498	Shut down for weekend.
Total	**256.9**		**52,750**			**145.76**	**498**	

1 Average operational flow rate = total flow in period/hours of operation in period.

2 Est. Pounds Removed = Average Influent conc. (µg/L) [using latest sampling] * period flow total (gallons) * 1 lb/454 g * 1/1,000,000 * 3 785 L/gallon

3 Est Cumulative Pounds Free Product Removed assumes all liquid tank is 100% product, specific gravity = 0.8

4 Percent operational = hours of blower operation / days between readings * 24 hours/day * 100%

gpm = gallons per minute

Total TPH = Total of TPH-gas and TPH-diesel

µg/L = micrograms per liter

TABLE 5 OPERATION AND PERFORMANCE DATA - VAPOR EXTRACTION SYSTEM
NESTLE' FORMER CARNATION FACILITY, 1310 14TH STREET, OAKLAND, CALIFORNIA

Date	Hours Blower Operational	Percent Blower Operational	Average Blower Flow Rate (CFM)	GAC Influent Concentration by FID (ppmv)	GAC Midpoint Concentration by FID (ppmv)	GAC Effluent Concentration by FID (ppmv)	Estimated Pounds of TPH-g Removed*	
8/28/97	15	NA	25	120	0	0	0.8	Startup and testing. Repair needed
11/4/97	0.2	0.1%	53	>1000	>1000	0	1.8	Restart after repairs.
11/11/97	0	0.0%	NM	NM	NM	NM	0.0	2,000 lb VGAC Change out.
11/12/97	2	8.2%	NM	>1000	0	0	27.4	
11/14/97	2.6	5.5%	50.5	16,000	0	0	36.0	
11/17/97	3.7	4.9%	NM	>10,000	3,000	0	50.7	GAC flooded by water.
11/18/97	0.7	3.0%	NM	950	3,000	100	0.6	
11/25/97	2.8	1.7%	55	61,000	0	0	160.8	2,000 lb VGAC change out, restart.
12/5/97	3	1.3%	NM	NM	NM	NM	245.9	
12/9/97	1.7	1.7%	76	42,000	0	60	113.9	
12/12/97	2.3	3.2%	67	13,000	20	0	72.5	
12/15/97	0.3	0.4%	70	52,000	0	0	11.7	
2/10/98	1.7	0.5%	55	110,000	7	0.2	176.0	Restarted after additional repairs.
2/11/98	11.6	47.3%	54	20,000	1,608	0.2	696.9	Shutdown for GAC changeout.
2/24/98	0.6	0.2%	55.5	20,000	6	0.3	11.4	Restart, 2,000 lb GAC changeout 2/23
2/25/98	11.6	49.4%	55	8,020	5	0.1	153.0	
2/26/98	1.9	7.7%	54 5	16,000	3	0	21.3	
2/27/98	2.3	9.4%	56	8,089	3	0	26.6	
2/27/98	1.7	92.7%	53	29,000	0	0	28 6	
2/27/98	2 2	49.8%	54	14,500	0	0	44.2	
3/2/98	0.3	0.5%	65	9,360	0	0	4.0	
3/3/98	12.1	50.4%	58.5	4,386	17	0	83.3	Shutdown for VGAC changeout.
3/4/98	0.5	1.6%	NM	23,000	0	0	6.4	1,000 lb VGAC changeout.
3/5/98	8.2	47.5%	51.5	8,740	2	2.8	114.7	
3/6/98	8	25.2%	47.5	7,720	0	0	53.5	
3/7/98	10.6	49.1%	64.5	2,586	0	0	60.3	
3/8/98	11.5	53.5%	69	3,130	1	0.1	38.8	
3/9/98	11.6	50.4%	62	1,420	8	0	28.0	
3/10/98	15.8	56.6%	60	1,574	316	0	24.3	Shutdown for VGAC changeout.
3/13/98	0.6	0.9%	44	12,000	1	0	3.1	1,000 lb VGAC changeout.
3/13/98	2.6	43.3%	50	8,100	0	0	22.4	Shutdown for weekend.
3/16/98	0.3	0 4%	55	10,400	0	0	2.6	Restart after weekend
3/17/98	9.4	45.3%	60	2,069	0	0	60.2	
3/18/98	9.3	36.4%	68	1,454	0	0	19.1	
3/19/98	12.2	44.2%	60	1,384	0	0	17.8	
3/20/98	7.3	32.9%	49	1,568	0	0	9.0	Shutdown for weekend
3/23/98	0.3	0.4%	60	6,510	0	0	1.2	Restart after weekend
3/24/98	9	40.8%	64	1,977	0	0	41.8	
3/25/98	4.1	20.2%	58	1,338	0	0	6.7	
3/26/98	11.2	47.0%	65	2,476	2	0.1	23.8	
3/27/98	10	37.5%	69	1,215	45	0	21.8	Shutdown for weekend.
TOTAL	222.8						2523	

CFM = cubic feet per minute
FID = Flame Ionization Detector
TPH-g = Total Petroleum Hydrocarbons, as Gasoline
ppmv = parts per million by volume

* Estimated Pounds TPH Removed = Average Influent conc.(ppmv) * Average flowrate (CFM) * Hours of Operation * 60 min/hour * 1/1,000,000 ppm * 110 g/mole *1/24.055 L/mole * 1 lb/454 g * 28.32 L/ft3
(assuming average TPH-g molecular weight is 110 g/mole, at 20° C temperature)

Appendix A

Field Documents

NAPL GAUGING

~~MONITORING~~ WELL DATA FORM

Client: MEITE

Date: Aug 97

Project Number: 609601 0006

Station Number:

Site Location: OAKLAND

Samplers: MC RB CC

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
V66		DRY					5.25
V60		9.15					10.32
PR49		9.20					14.47
PR50		8.96					14.97
V5		DRY					7.75
PR51		DRY					5.05
V94		DRY					10.10
~~PR53~~							
V64		DRY					5.47
PR52		9.20					13.62
E6		9.68					25.45
V93		DRY					7.55
V91		9.00					10.20
PR56		Dry					5.30
PR55		Dry					6.90
NN1		Dry					5.20
PR54		9.02					13.18
V21		Dry					5.15
E7		9.50					24.85
V95		Dry					8.50
V96		Dry					9.75
PR62		9.10					12.60
V90		Dry					3.10
V69		Dry					10.25
PR60		Dry					14.35

MONITORING WELL DATA FORM

Client: NESTE

Date: Aug 97

Project Number: 6096601 0006

Station Number:

Site Location: OAKLAND

Samplers: [illegible] RB CC

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
PR65		Dry					13.90
254		Dry					5.90
PR75		Dry					15.15
PR76		Dry					15.00
239		8.75					14.25
240		8.96					15.24
241		8.85					14.20
MW5		8.94					23.50
238							
237		Dry					5.00
PR67		8.46					14.73
PR68		8.90					13.40
V88							
New well		9.72	8.52		1.20		14.35
V87		8.30					10.85
PR69		8.49					14.35
235		8.63					10.38
~~[illegible]~~ V85		8.52					10.24
PR57		8.56					14.25
V200		4.60 ~~5.30~~					5.20
232		4.76					5.10
PR33		8.60					12.62
V12	4" altered	5.35					5.95
E8	6"	9.25	9.00		0.25		25.50
PR28		8.65					11.88

PMS PROJ.TEMP.FORMS.MON-WELL1096

MONITORING WELL DATA FORM

Client: MESTIC

Date: August / 97

Project Number: 609660101 0006

Station Number: N/A

Site Location: OAKLAND Ca

Samplers: K Legge

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
78	2"	8.73					14.92
217	2"	8.75					10.30
250	2"	8.00					18.54
E3	6"	8.92					21.15
257	—	8.70					14.20
RW1	12"	7.75					14.95
V5	4"	9.25					10.25
E8	6"	9.08					25.45
V16	4"	Dry					5.09
94	2"	8.70					14.56
215	2"	9.10					13.90
214	4"	8.80					10.30
208	4"	8.50					10.25
A1	4"	Dry					5.35
V88	4"	8.90					10.28
V14	4"	Dry					5.25
PZ25	2"	8.70					15.25
V11	4"	5.09					5.25
236	6"	8.60					25.22
V88	4"	9.30					11.01
238	4"	5.04					5.14
PZ39	—	9.10					13.05

MONITORING WELL DATA FORM

Client: WESTIE

Date: August 92

Project Number: 609660.1 0006

Station Number: N/A

Site Location: OAKLAND

Samplers: KK DB CC

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
PR?	2"	8.81	—				12.40
MW15	2"	8.82					9.00
99	4"	4.64	—				4.90
227	4"	8.69	—				10.21
PR29	2"	8.75	—				12.60
226	4"	8.54	—				10.25
219	4"	8.56	—				10.25
225	4"	8.46	—				10.23
V53	4"	8.31	—				10.40
V54	4"	8.12	—				10.33
V55	4"	8.28	—				10.14
V56	4"	8.34	—				9.90
234	4"	7.81	—				10.15
V25	4"	8.76	—				10.49
PR32	2"	8.34	—				14.24
244	2"	8.95	8.80		0.15 ~~0.05~~		17.90
246	4"	3.94	—				4.40
247	4"	9.07	—				17.29
252	2"	10.10					16.63
253	2"	10.43	9.30		1.13		15.00
248	6"	8.99	—				23.95
249	4"	9.30	—				23.25
242	2"	9.18	—				15.10
MW33	4"	9.16	~~9.00~~				23.82
231	2"	8.51	—				15.00

EA

MONITORING WELL DATA FORM

3 of 7

Client: NESTLE

Date: August 97

Project Number: 609601 1006

Station Number:

Site Location: OAKLAND

Samplers: KL RB CC

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
PR37	2"	9.12	8.81		0.31		13.07
MW32	4"	9.18	—				23.95
B-1	2"	8.80	—				15.00
PR36	2"	DRY					8.69
PR21	2"	10.46	9.25		1.21		11.48
PR22	2"	8.70	8.69		0.01		14.10
PR23	2"	8.84	8.78		0.06		13.00
PR35	2"	9.72	8.82		0.90		13.35
PR34	2"	9.76	8.83		0.93		12.75
E-0	2"	9.41	—				15.70
PR-58	2"	9.53	8.68		0.85		11.50
MW8	2"	9.03	—				15.02
E-5	2"	10.38	10.14		0.24		25.47
MW23	2"	10.49	8.89		1.60		18.44
PR53	2"	9.15	9.13		.02		14.75
MW7	2"	9.13	9.10		.03		16.99
MW22	2"	9.15	—				21.34
PR47	2"	8.98	8.96		.02		13.80
MW24	2"	10.55	8.99		1.56		21.00
PR64	2"	10.84	9.42		1.42		13.00
PR61	2"	9.58	9.09		0.49		14.73
PR20	2"	9.64	8.45		1.19		12.30
PR26	2"	8.95	8.84		0.11		14.00
RW2	12"	7.54	—				14.95
MW14	2"	DRY	—				8.50

MONITORING WELL DATA FORM

Client: NESTLE

Date: 7/10/97 - 7/15/97

Project Number: 60906.01 0006

Station Number: N/A

Site Location: OAKLAND Ca.

Samplers: KL, RB/CC, RM

MONITORING WELL NUMBER	~~ELEVATION TOP OF~~ CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
V84	4"	9.70					11.40
MW16	2"	DRY					8.98
MW X	2"	8.87					19.60
PR43	2"	9.29					24.45
PR42	2"	9.21					14.30
V78A	2"	10.46					11.56
V74	4"	13.51					13.61
PR41	2"	DRY					5.42
PR44	2"	DRY					5.43
PR45	2"	9.05					13.88
V72	4"	10.37					11.56
V2	2"	DRY					5.32
V71	4"	DRY					9.60
V73	2"	8.12					10.22
V4	4"	DRY					5.31
V3	4"	DRY					5.22
V70	4"	DRY					14.04
V77	4"	12.33					12.64
PR30	2"	DRY					2.48
PR46		9.31					14.79
V78B	~~4~~	10.01					11.15
V79		8.84					10.10
~~PR24~~		~~8.90~~					~~12.45~~
~~PR27~~		~~8.70~~					~~13.30~~
~~V8~~		~~DRY~~					~~5.10~~

MONITORING WELL DATA FORM

5 of 7

Client: NESTLE

Date: August 97

Project Number: 606601 0006

Station Number:

Site Location: OAKLAND

Samplers: KL RB CC

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
PR24		8.90					12.45
PR27		8.70					13.30
V8		Dry					5.10
PR38		9.05					12.58
V7		4.67					5.15
209		8.80					17.55
PR204		Sealed with Bentonite					
213		8.35					10.25
211		8.50					10.22
212		8.38					10.20
~~208~~ 210		8.55					10.25
206		8.58					9.87
207		8.45					10.30
204		8.14					10.28
205		8.25					10.25
202		8.35					10.10
201		8.64					10.50
200		8.51					10.20
94							
224		8.52					10.24
223		8.55					15.10
PR201		8.55					10.30
V48		8.33					10.25
222		8.35					10.40
221		8.45					10.30

EA

MONITORING WELL DATA FORM

6 of 7

Client: HEXTE

Date: 8/97

Project Number: 609601 0006

Station Number:

Site Location: OAKLAND

Samplers: KL CC RB

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
220		8.50					10.25
218		8.25					13.85
PR80		8.45					10.22
PR200		8.33					10.20
PR202		8.30					10.20
PR208		8.40					10.25
PR8205		8.55					10.30
PR203		8.42					10.20
230		8.54					10.26
V32		8.45					10:28
PR102		8.30					10.25
228		8.50					10.12
V31		8.43					10.25
V30		8.50					10.25
V29		8.50					10.26
V28		8.47					10.10
V24		8.50					10.20
V26		8.75					10.50
V52		8.70					10.30
V23		8.05					10.45
E1		9.10 8.88	lots of 8.82	oil in well	0.28		24.40
V15		4.09					5.20
V55		8.20					10.15
V56		8.90 8.88	8.24		0.66		8.90
PR31		7.34					12.70

MONITORING WELL DATA FORM

Client: NESTTE

Date: August 97

Project Number: 6096601 0006

Station Number:

Site Location: OAKLAND

Samplers: ML RB CC

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
243		10.30	8.42		1.88		18.42
245		9.46					13.95
PR12		9.04	8.94		0.10		24.30
MW33		9.60					21.00
81		8.70					15.00
233		8.25					14.50
MW11		8.84					22.00
249 (MW31)		9.25					23.30

EA Engineering, Science, and Technology

FIELD SUMMARY REPORT

Client NESTLE Station No. NESTLE (OAK)

EA Project No. 60946.01 Task No. 0006

Field Team Chris Chatburn

Date 10/27/97

No. of Drums on Site: 0 Water 0 Soil 7 Empty 0 LPH

Summary:

Opened and gauged MW2, MW3, MW6, MW25, MW26, MW28, MW29, MW30, MW32.
Purged at least 3 casing volumes from MW3, MW26, MW28 and collected samples for TPHg, BTEX, and 8010 analysis. Purge water was stored in Black poly tank with the system to be put through the system at a latter date. Replaced lock and cap to MW3. Secured wells. No problems encountered.
Various empty 55 Gallon drums on site.

EA

MONITORING WELL DATA FORM

Client: NESTLE

Date: 10-27-97

Project Number: 609 66.01

Station Number: NESTLE-OAK

Site Location: 1310 14th ST. OAKLAND, CA.

Samplers: Chris Chatburn

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
MW2		10.25					23.11
MW3		9.60					24.91
MW6		9.43					15.60
MW25		8.34					19.32
MW26		8.15					24.99
MW28		8.93					25.05
MW29		8.11					23.25
MW30		10.02					21.00
MW32		9.86					23.10

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: NESTLE Well No: MW3 Date 10-22-97

Project No: 609666.01.0006 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	24.91		9.60		15.31		0.16	0.64	1.44	9.8		29.4

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 5 GPM

Time	940	942	943	945			
Volume Purges (gal)	0	10	20	30			
Temperature (°C)	21.5	22.8	21.9	21.6			
pH	6.46	6.44	6.44	6.46			
Specific Conductivity (umhos)	772	800	853	873			
Turbidity / Color	low / clear	low / clear	low / clear	low / clear	/	/	/
Odor	yes	yes	yes	yes			
Casing Volumes Removed	0	1	2	3			
Dewatered?	NO	NO	NO	NO			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 950 Approx. Depth to Water During Sampling: 10 ft.

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW3	3	VOA	HCl	40ml	low	clear	yes	BTEX	
MW3	3	VOA	HCl	40ml	low	clear	yes	8010	

Total Purge Volume: 30 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: Clear

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) _____

Problems Encountered During Purging and Sampling: No

Comments: _____

EA

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: NESTLE Well No: MW26 Date 10-22-97

Project No: 609666.01. 0006 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter 2 / 0.16	4 (circled) / 0.64	6 / 1.44	Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
	24.99		8.15		16.84					10.78		32.34

PURGING DATA

Purge Method: VACUUM TRUCK Purge Depth: SCREEN Purge Rate: 5.5 GPM

Time	920	922	924	926			
Volume Purges (gal)	0	11	22	33			
Temperature (°C)	20.3	20.6	20.2	19.5			
pH	6.25	6.30	6.33	6.35			
Specific Conductivity (umhos)	968	920	937	917			
Turbidity / Color	low / Clear	low / Clear	low / Clear	low / Clear	/	/	/
Odor	Yes	Yes	Yes	Yes			
Casing Volumes Removed	0	1	2	3			
Dewatered?	No	NO	NO	NO			

Comments/Observations:

SAMPLING DATA

Time Sampled: 930 Approx. Depth to Water During Sampling: 9 ft.

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW26	3	VOA	HCl	40ml	low	Clear	Yes	TPH Btex	
MW26	3	VOA	HCl	40ml	low	Clear	Yes	8010	

Total Purge Volume: 33 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: Clear

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments:

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: NESTLE Well No: MW28 Date 10-22-97

Project No: 609666.01.0006 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	25.05		8.93		16.12		0.16	0.64	1.44	10.32		30.96

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 4.5-~~5~~ 6 GPM

Time	900	902	904	906			
Volume Purges (gal)	0	11	22	31			
Temperature (°C)	21.2	21.9	21.5	21.4			
pH	5.59	5.67	5.77	5.82			
Specific Conductivity (umhos)	806	803	861	903			
Turbidity / Color	low / Clear	low / Clear	low / Clear	low / Clear			
Odor	No	No	No	No			
Casing Volumes Removed	0	1	2	3			
Dewatered?	No	No	No	No			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 915 Approx. Depth to Water During Sampling: 9 ft.

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW28	3	VOA	HCl	40ml	low	clear	Yes	~~TPH~~ BTEX	
MW28	3	VOA	HCl	40ml	low	clear	Yes	8010	

Total Purge Volume: 31 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: Clear

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

EA Engineering, Science, and Technology

FIELD SUMMARY REPORT

Client: Nestle Station No: OAK.

EA Project No: 60966.01 Task No: 0006

Sample Team: Chris Chatburn

Date: 1-27-98

No. of Drums on Site: ✓ Water _____ Soil _____ Empty

Summary:

Opened and gauged MW2, MW3, MW25, MW26, MW28, MW29, MW30, and MW32. Purged wells gauged with a vacuum truck. Wells MW3 and MW30 were pumped dry and allowed to recharge prior to sampling. Wells MW2, MW25, MW26, MW28, MW29, and MW32 were purged at least 3 casing volumes. Collected groundwater samples for BTEX and TPH-g (GRO) analysis from all wells purged. Collected groundwater samples for TPH-d (DRO) analysis from MW2, MW26, MW28, MW29. Collected groundwater samples for 8010 analysis from MW26, and MW32. The purgewater was put through the system. The system was turned off upon arrival and left off at the time of departure. The cap for MW3 was replaced and the lock and cap for MW32 was also replaced. All wells sampled were secured. Numerous 55 gallon drums onsite.

MONITORING WELL DATA FORM

Client: Nestle

Date: 1-27-98

Project Number: 609666.01.0004

Station Number: OAKLAND (OAK)

Site Location: 1310 14th St. Oakland ca

Samplers: Chris Chatburn

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
MW2		6.74					23.11
MW3		6.40					24.91
MW25		5.37					19.32
MW26		5.12					24.99
MW28		5.81					25.05
MW29		5.15					23.25
MW30		7.04					21.00
MW32		6.35					23.10

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GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW 2 Date 1-27-98

Project No: 6094 6-01 . 0004 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	23.11		6.74		16.37		0.16	0.64	1.44	10.75		

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 3.67 gpm

Time	1035	1038	1041	1044			
Volume Purges (gal)	0	11	22	33			
Temperature (°C)	18.0	18.5	19.0	19.6			
pH	6.05	6.09	6.19	6.33			
Specific Conductivity (umhos)	729	730	771	770			
Turbidity / Color	low / clear	low / clear	low / clear	low / clear	/	/	/
Odor	NO	NO	NO	NO			
Casing Volumes Removed	0	1	2	3			
Dewatered?	NO	NO	NO	NO			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1050 Approx. Depth to Water During Sampling: 7 FT

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW 2	3	VOA	HCl	40mL	low	clear	Y	602 BTEX	
MW 2	1	amber	NP	1L	low	clear	Y	ERO	

Total Purge Volume: 33 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: sunny

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) ND

Problems Encountered During Purging and Sampling: ND

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW3 Date 1-27-98

Project No: 609666.01.0004 Personnel: Chris Chatham

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	24.91		6.40		18.51		0.16	0.64	1.44	11.85		35.55

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 4 gpm

Time	1125	1128	1131				
Volume Purges (gal)	0	12	24				
Temperature (°C)	18.0	18.3	19.0				
pH	6.41	6.43	6.56				
Specific Conductivity (umhos)	656	680	746				
Turbidity / Color	low clear	low clear	low clear				
Odor	yes	yes	yes				
Casing Volumes Removed	0	/	2				
Dewatered?	NO	NO	yes				

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 1155 Approx. Depth to Water During Sampling: 7 FT.

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW3	3	VOA	HCl	40ML	low	clear	Y	GRO BTEX	

Total Purge Volume: 24 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: sunny

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) Replaced cap

Problems Encountered During Purging and Sampling: NO

Comments: _____

EA

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW 25 Date 1-27-98

Project No: 609666.01.0004 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	19.32		5.37		13.95		0.16	0.64	1.44	8.93		29.79

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 3 gpm

Time	950	952	954	956			
Volume Purges (gal)	0	9	18	27			
Temperature (°C)	16.0	16.3	16.5	17.0			
pH	6.08	6.11	6.28	6.35			
Specific Conductivity (umhos)	930	937	947	989			
Turbidity / Color	low / clear	low / clear	low / clear	low / clear			
Odor	NO	NO	NO	NO			
Casing Volumes Removed	0	/	2	3			
Dewatered?	NO	NO	NO	NO			

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 1000 Approx. Depth to Water During Sampling: 7 FT.

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW25	3	VOA	HCl	40mL	low	clear	Y	GRO BTEX	

Total Purge Volume: 27 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: Cloudy

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW26 Date 1-27-98

Project No: 609666.01.0006 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	24.99		5.12		19.87		0.16	0.64	1.44	12.72		38.16

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 4-5 gpm

Time	1005	1008	1011	1014			
Volume Purges (gal)	0	12	24	39			
Temperature (°C)	16.1	16.6	17.0	17.6			
pH	6.06	6.28	6.29	6.42			
Specific Conductivity (umhos)	788	761	762	762			
Turbidity / Color	med Clear	low Clear	low Clear	low Clear			
Odor	NO	NO	NO	NO			
Casing Volumes Removed	0	1	2	3			
Dewatered?	NO	NO	NO	NO			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1019 Approx. Depth to Water During Sampling: 6 FT.

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW26	6	VOA	HCl	40ml	low	clear	Y	GRO BTEX SOLD	
MW26	1	amber	NP	1L	low	clear	Y	DRO	

Total Purge Volume: 39 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: Sunny

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

EA

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW 28 Date 1-27-98

Project No: 60946-01.0006 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	25.05		5.81		19.24		0.16	0.64	1.44	12.32		36.96

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 4-4.3 gpm

Time	930	933	936	939			
Volume Purges (gal)	0	12	24	37			
Temperature (°C)	18.9	19.3	19.0	19.4			
pH	6.34	6.52	6.31	6.32			
Specific Conductivity (umhos)	779	749	803	800			
Turbidity / Color	low clear	low clear	mod cloudy	low clear			
Odor	NO	NO	NO	NO			
Casing Volumes Removed	0	1	2	3			
Dewatered?	NO	NO	NO	NO			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 945 Approx. Depth to Water During Sampling: 7 FT

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW 28	3	VOA	HCl	40mL	low	clear	Y	GRO BTEX	
MW28	1	amber	NP	1L	low	clear	Y	DRO	

Total Purge Volume: 37 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: Cloudy

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW29 Date: 1-27-98

Project No: 6094 6-01.0006 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	23.25		5.15		18.1		0.16	0.64	1.44	11.59		34.77

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 3.6-4 gpm

Time	910	913	916	919			
Volume Purges (gal)	0	12	24	35			
Temperature (°C)	17.2	18.1	18.0	17.9			
pH	6.19	6.33	6.51	6.45			
Specific Conductivity (umhos)	626	683	690	690			
Turbidity / Color	low clear	low clear	low clear	low clear			
Odor	NO	NO	NO	NO			
Casing Volumes Removed	0	1	2	3			
Dewatered?	NO	NO	NO	NO			

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 925 Approx. Depth to Water During Sampling: 7 FT

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW 29	3	VOA	HCl	40mL	low	clear	Y	GRO BTEX	
MW29	1	amber	NP	1L	low	Clear	Y	DRO	

Total Purge Volume: 35 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: Cloudy

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: No

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW30 Date 1-27-98

Project No: 609666.01.0004 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	21.00		7.04		13.96		0.16	0.64	1.44	8.94		26.82

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 4.5 gpm

Time	1115	1117	1121				
Volume Purges (gal)	0	9	18				
Temperature (°C)	17.6	18.0	16.7				
pH	6.29	6.35	6.28				
Specific Conductivity (umhos)	489.2	487.9	461.8				
Turbidity / Color	low clear	low clear	low clear				
Odor	NO	NO	NO				
Casing Volumes Removed	0	/	2				
Dewatered?	NO	NO	Yes				

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 1150 Approx. Depth to Water During Sampling: 8 FT.

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW30	3	VOA	HCl	40mL	low	clear	Y	GRO BTEX	

Total Purge Volume: 18 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: sunny

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) ND

Problems Encountered During Purging and Sampling: NO

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW32 Date 1-27-98

Project No: 609666.01.0006 Personnel: Chris Chatburn

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	−	Depth to Water (feet)	=	Water Column (feet)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	23.10		6.35		16.75		0.16	0.64	1.44	10.72		32.16

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 3.67 gpm

Time	1054	1057	1100	1103			
Volume Purges (gal)	0	11	22	33			
Temperature (°C)	19.6	20.0	20.7	21.0			
pH	6.40	6.38	6.44	6.52			
Specific Conductivity (umhos)	618	624	609	593			
Turbidity / Color	Some mud cloudy	mod cloudy	mod clear	mod clear			
Odor	NO	NO	NO	NO			
Casing Volumes Removed	0	1	2	3			
Dewatered?	NO	NO	NO	NO			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1110 Approx. Depth to Water During Sampling: 7 FT.

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW32	6	VOA	HCl	40ml	low	clear	Y	GRO BTEX 8020	

Total Purge Volume: 33 gallons Disposal/Containment Method: SYSTEM

Weather Conditions: Sunny

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) Replaced lock/cap

Problems Encountered During Purging and Sampling: NO

Comments:

Water Level and Product Thickness Data Sheet						DATE: 2/10/98
NESTLE FACILITY, 1310 14TH ST., OAKLAND, CALIFORNIA						STAFF: ~~[illegible]~~ MWD + CE
Extraction Line	Well	Time	Depth to Product	Depth to Water	~~Total~~ Product Thickness ~~Depth~~	All Comments
1	PR21	10:42	4.49	8.77	~~3.70~~ 4.28	Measured from TOC.
	PR22	10:41	4.20	8.74	4.54	
	PR23	10:41	—	5.10	—	
	PR26	10:45	4.29	7.68	3.39	
	PR34	10:46	4.40	7.58	3.18	
	PR35	10:40	5.16	5.87	0.71	
	PR36	10:43	5.26	5.80	0.54	
	PR37	10:44	—	5.21	—	
2	E5	10:35	—	6.78	—	
	MW8	10:33	—	5.72	—	
	MW22	10:31	—	5.70	—	
	MW23	10:~~34~~	~~5.54~~	6.05	0.51	~~5.54~~, 6.05
	PR47	10:32	—	6.23	—	
	PR48	10:36	5.65	6.95	1.30	
	PR53	10:26	—	5.71	—	
	MW7	10:30	—	5.94	—	
3	EO	10:52	5.52	5.54	0.02	
	MW24	10:57	5.56	5.81	0.25	
	PR20	10~~54~~	4.24	7.64	3.40	
	PR58	10:53	3.93	8.18	4.25	
	PR61	10:55	5.23	5.78	0.55	
	PR64	10:56	5.19	8.12	2.93	
4	244	10:50	—	4.30	—	
	247	10:51	—	5.21	—	
	253	10:49	5.57	6.23	0.66	
	~~V56~~	NM	NM	NM	NM	Not hooked up to sys.
	PR12	NM	NM	NM	NM	in " " to sys.
	PR32	1050	—	5.70	—	
	243	10:48	—	4.94	—	

5.57 6.23

EA Engineering, Science, and Technology

O&M FIELD SUMMARY REPORT

Client NESTLE Station No. OAKLAND

EA Project No. _____ Task No. _____

Field Team _____

Date 3/4/98

No. of Drums on Site: _____ Water _____ Soil _____ Empty _____ LPH

Summary:

system WELL GAUGING:

WELL	DTP	DTW	FT
LINE #1			
PR34	5.24	5.29	0.05
PR26	5.19	5.28	0.09
PR35	—	5.37	ø
PR23	5.15	5.16	0.01
PR22	5.37	5.38	0.01
PR21	5.94	5.97	0.03
PR36	5.38	5.48	0.10
PR37	5.24	5.30	0.06
line #4			
247		5.18	ø
244		4.70	ø
253	5.44	6.48	1.04
PR32	4.79	4.81	0.02
243	4.27	4.28	0.01
line #3			
58→ PR58	3.63	8.85	5.22
EO	5.55	5.58	0.03
PR20	3.77	8.54	4.77
PR61	5.09	6.23	1.14
PR64	4.78	9.39	4.61
MW24	5.59	5.75	0.16

non-system wells

well	DTP	DTW	FT
V55	4.48	4.53	0.05 * light brown gm in well
PR68		5.57	ø
~~EO~~	~~5.55~~	~~5.58~~	
PR67		4.72	ø
V90	mud at 3.80'		
PR65		5.12	ø
V21		3.75	ø
PR54		5.69	ø
PR55	5.71	5.73	0.02
PR56		4.03	ø
PR57		5.70	ø
E8	5.43	5.65	0.22
PR51	4.88	5.05 bottom	0.17

EA Engineering, Science, and Technology

O&M FIELD SUMMARY REPORT

763-6254

Client Nestle Station No.

EA Project No. 60966601 Task No. 0006

Field Team C Genals D Peterson

Date 3-4-98

No. of Drums on Site: _____ Water _____ Soil _____ Empty _____ LPH

Summary:

well	DTP	DTW	PT
MW23	5.55	6.10	0.55
PR48	5.94	5.95	0.01
PR30	2.43	~~bottom~~ 2.43	
ES		6.80	
V78A		6.02	
MW8		5.70	
PR41		5.23	
V70		9.25	
PR47		5.97	
MW22		5.71	
V78B		7.07	
PR49		5.87	
PR50		5.61	
PR52		5.89	
MW7		5.62	
PR53		5.38	

EA Engineering, Science, and Technology

O&M FIELD SUMMARY REPORT

Client NESTLE Station No. _____

EA Project No. 60966.07 Task No. 0006

Field Team DAVID PETERSON

Date 3/18/98

No. of Drums on Site: Ø Water Ø Soil ____ Empty Ø LPH

Summary: 7 LIQ CARBON (SPENT) 5 VAPOR CARBON (SPENT) 3 OVERPACKS (EMPTY)
2 LIQ. CARBON (NEW)

DTW/DTP MEASURED FROM GRADE SURFACE'S

LINE A:	DTP	DTW	PT
PR27	—	6.39	
PR28	—	7.28	
PR29	—	7.0	
PR30	BOTTOM @ 2.8		
PR48	—	8.3	
V77	~~7.01~~	~~7.35~~ 7.20	0.19
V70	7.01	6.07	
V71	—	5.43	

LINE B:	DTP	DTW
PR29	—	8.54
~~PR28~~	—	6.28
PR26	—	~~7.50~~ 7.5
PR23	—	(5.05 DTB)
PR51	—	6.88
PR50	—	7.00
PR49	—	6.13
V80	—	

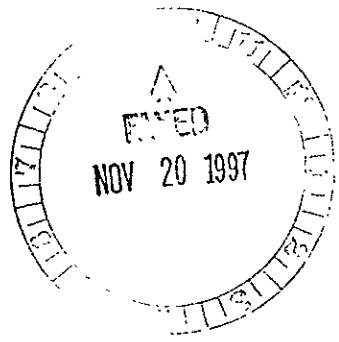
ORIGINAL - PROJECT FILE YELLOW - OFFICE O&M MANUAL PINK - FIELD O&M MANUAL

Appendix B

Laboratory Analytical Reports

Nestlé USA

6625 EITERMAN ROAD
DUBLIN, OH 43017
TEL (614) 791-9144
FAX (614) 793-5353



Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	11/19/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	10/27/97
	800 N. Brand Blvd.	**Date Sample Received:**	10/28/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97NOV6091

Sample ID:	MW3	**NQAL #:**	97NOV6091-01
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Final Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	2.2	0.1	11/10/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	3.1	2.0	11/10/97
Benzene	EPA 8020	ug/L	1030	0.5	11/13/97
Toluene	EPA 8020	ug/L	60	0.5	11/10/97
Ethyl Benzene	EPA 8020	ug/L	54	0.5	11/10/97
m&p Xylenes	EPA 8020	ug/L	23	0.5	11/10/97
o-Xylene	EPA 8020	ug/L	17	0.5	11/10/97
Dichlorodifluoromethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chlormethane	EPA 8010	µg/L	ND	0.5	10/30/97
Vinyl Chloride	EPA 8010	µg/L	ND	0.5	10/30/97
Bromomethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Trichlorofluoromethane	EPA 8010	µg/L	ND	0.5	10/30/97
1,1-Dichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
Methylene Chloride	EPA 8010	µg/L	ND	0.5	10/30/97
trans-1,2-Dichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,1-Dichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
c 1,2-Dichloroethene	EPA 8010	µg/L	ND	0.5	10/30/97
Chloroform	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,1-Trichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Carbon Tetrachloride	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichloroethane	EPA 8010	µg/L	2.4	0.5	10/30/97
Trichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichloropropane	EPA 8010	µg/L	ND	0.5	10/30/97

Nestlé USA

6625 EITERMAN ROAD
DUBLIN, OH 43017

TEL (614) 791-9144
FAX (614) 793-5353

Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	11/19/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	10/27/97
	800 N. Brand Blvd.	**Date Sample Received:**	10/28/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97NOV6091

Sample ID:	MW3	**NQAL #:**	97NOV6091-01
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Final Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Bromodichloromethane	EPA 8010	µg/L	ND	0.5	10/30/97
cis-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	10/30/97
trans-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,2-Trichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Tetrachloroethene	EPA 8010	µg/L	ND	0.5	10/30/97
Dibromochloromethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
Bromoform	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,2,2-Tetrachloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
1,3-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
1,4-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé Makes the Very Best

Nestlé USA

6625 EITERMAN ROAD
DUBLIN, OH 43017

TEL (614) 791-9144
FAX (614) 793 5353

Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	11/19/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	10/27/97
	800 N. Brand Blvd.	**Date Sample Received:**	10/28/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97NOV6091

Sample ID:	MW26	**NQAL #:**	97NOV6091-02
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Final Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	30	0.1	11/10/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	38	2.0	11/10/97
Benzene	EPA 8020	ug/L	16000	0.5	11/10/97
Toluene	EPA 8020	ug/L	26	0.5	11/10/97
Ethyl Benzene	EPA 8020	ug/L	100	0.5	11/10/97
m&p Xylenes	EPA 8020	ug/L	27	0.5	11/10/97
o-Xylene	EPA 8020	ug/L	9.6	0.5	11/10/97
Dichlorodifluoromethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chlormethane	EPA 8010	µg/L	ND	0.5	10/30/97
Vinyl Chloride	EPA 8010	µg/L	ND	0.5	10/30/97
Bromomethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Trichlorofluoromethane	EPA 8010	µg/L	ND	0.5	10/30/97
1,1-Dichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
Methylene Chloride	EPA 8010	µg/L	ND	0.5	10/30/97
trans-1,2-Dichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,1-Dichloroethane	EPA 8010	µg/L	3.6	0.5	10/30/97
c 1,2-Dichloroethene	EPA 8010	µg/L	ND	0.5	10/30/97
Chloroform	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,1-Trichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Carbon Tetrachloride	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichloroethane	EPA 8010	µg/L	92	0.5	10/30/97
Trichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichloropropane	EPA 8010	µg/L	ND	0.5	10/30/97

Nestlé USA

6625 EITERMAN ROAD
DUBLIN, OH 43017

TEL (614) 791 9144
FAX (614) 793-5353

Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	11/19/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	10/27/97
	800 N. Brand Blvd.	**Date Sample Received:**	10/28/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97NOV6091

Sample ID:	MW26	**NQAL #:**	97NOV6091-02
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Final Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Bromodichloromethane	EPA 8010	µg/L	ND	0.5	10/30/97
cis-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	10/30/97
trans-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,2-Trichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Tetrachloroethene	EPA 8010	µg/L	ND	0.5	10/30/97
Dibromochloromethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
Bromoform	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,2,2-Tetrachloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
1,3-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
1,4-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé USA

6625 EITERMAN ROAD
DUBLIN, OH 43017

TEL (614) 791-9144
FAX (614) 793-5353

Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	11/19/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	10/27/97
	800 N. Brand Blvd.	**Date Sample Received:**	10/28/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97NOV6091

Sample ID:	MW28	**NQAL #:**	97NOV6091-03
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Final Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	0.3	0.1	11/10/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	36	2.0	11/10/97
Benzene	EPA 8020	ug/L	3.6	0.5	11/10/97
Toluene	EPA 8020	ug/L	ND	0.5	11/10/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	11/10/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	11/10/97
o-Xylene	EPA 8020	ug/L	ND	0.5	11/10/97
Dichlorodifluoromethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chlormethane	EPA 8010	µg/L	ND	0.5	10/30/97
Vinyl Chloride	EPA 8010	µg/L	ND	0.5	10/30/97
Bromomethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Trichlorofluoromethane	EPA 8010	µg/L	ND	0.5	10/30/97
1,1-Dichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
Methylene Chloride	EPA 8010	µg/L	ND	0.5	10/30/97
trans-1,2-Dichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,1-Dichloroethane	EPA 8010	µg/L	6.2	0.5	10/30/97
c 1,2-Dichloroethene	EPA 8010	µg/L	ND	0.5	10/30/97
Chloroform	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,1-Trichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Carbon Tetrachloride	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichloroethane	EPA 8010	µg/L	120	0.5	10/29/97
Trichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichloropropane	EPA 8010	µg/L	ND	0.5	10/30/97

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	11/19/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	10/27/97
	800 N. Brand Blvd.	**Date Sample Received:**	10/28/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97NOV6091

Sample ID:	MW28	**NQAL #:**	97NOV6091-03
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Final Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Bromodichloromethane	EPA 8010	µg/L	ND	0.5	10/30/97
cis-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	10/30/97
trans-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,2-Trichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Tetrachloroethene	EPA 8010	µg/L	ND	0.5	10/30/97
Dibromochloromethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
Bromoform	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,2,2-Tetrachloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
1,3-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
1,4-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	11/19/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	10/27/97
	800 N. Brand Blvd.	**Date Sample Received:**	10/28/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97NOV6091

Sample ID:	Rinse Blank	**NQAL #:**	97NOV6091-04
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Final Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	0.1	0.1	11/10/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	3.1	2.0	11/12/97
Benzene	EPA 8020	ug/L	ND	0.5	11/12/97
Toluene	EPA 8020	ug/L	ND	0.5	11/12/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	11/12/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	11/12/97
o-Xylene	EPA 8020	ug/L	ND	0.5	11/12/97
Dichlorodifluoromethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chlormethane	EPA 8010	µg/L	ND	0.5	10/30/97
Vinyl Chloride	EPA 8010	µg/L	ND	0.5	10/30/97
Bromomethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Trichlorofluoromethane	EPA 8010	µg/L	ND	0.5	10/30/97
1,1-Dichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
Methylene Chloride	EPA 8010	µg/L	ND	0.5	10/30/97
trans-1,2-Dichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,1-Dichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
c 1,2-Dichloroethene	EPA 8010	µg/L	ND	0.5	10/30/97
Chloroform	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,1-Trichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Carbon Tetrachloride	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Trichloroethylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichloropropane	EPA 8010	µg/L	ND	0.5	10/30/97

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	11/19/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	10/27/97
	800 N. Brand Blvd.	**Date Sample Received:**	10/28/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97NOV6091

Sample ID:	Rinse Blank	**NQAL #:**	97NOV6091-04
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Final Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Bromodichloromethane	EPA 8010	µg/L	ND	0.5	10/30/97
cis-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	10/30/97
trans-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,2-Trichloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
Tetrachloroethene	EPA 8010	µg/L	ND	0.5	10/30/97
Dibromochloromethane	EPA 8010	µg/L	ND	0.5	10/30/97
Chlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
Bromoform	EPA 8010	µg/L	ND	0.5	10/30/97
1,1,2,2-Tetrachloroethane	EPA 8010	µg/L	ND	0.5	10/30/97
1,3-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
1,4-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97
1,2-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	10/30/97

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Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé Makes the Very Best

Company Name: NESTLE	Project Manager or Contact: DOUG GRAM
Project No. 609606.01	Phone (510) 283-7077
Dept.: 216 Task: 0006	Project Name: 1310 14TH ST Nestle OAKLAND CA
Sample Storage Location: EA	ATO Number:
Page 1 of 1	Report #.

Parameters/Method Numbers for Analysis

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	TPHG BTEX	8010	9Toxt	EA Labs Accession Number	Remarks
10/22/97	950	X		MW3	6	X	X		609691-01	LPM:
10/22/97	930	X		MW2A	6	X	X		02	Project Summary No.:
10/22/97	915	X		MW28	6	X	X		03	
10/22/97	845	X		RINSATE BLANK	6	X	X		04	
10/22/97	NA	X		~~TRIP BLANK~~	~~2~~	X	X			~~TRIP BLANK~~ NO TRIP BLANK

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Report Deliverables: 1 2 3 4 D E

EDD: Yes/No

DUE TO CLIENT: STANDARD

ADD 8OT

Sampled by: (Signature)	Date/Time 10/22/97 1620	Relinquished by: (Signature)	Date/Time 10/22/97 1620	Received by: (Signature) Nancy Cowgill	Date/Time 10/23/97 9:15
Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time	Airbill Number:	Sample Shipped by: (Circle) Fed Ex Puro. UPS Hand Carried Other:

Cooler Temp.____C pH: ☐ Yes ☐ No Comments: Custody Seals Intact ☐ Yes ☐ No

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laboratories PINK—Project M

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	MW-2	**NQAL #:**	98JAN8372-01
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	2/9/98
Gasoline Range Org.	CA Luft	mg/L	0.1	0.1	2/3/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	ND	0.5	2/3/98
Benzene	EPA 8020	ug/L	ND	0.5	2/3/98
Toluene	EPA 8020	ug/L	ND	0.5	2/3/98
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	2/3/98
m&p Xylenes	EPA 8020	ug/L	ND	0.5	2/3/98
o-Xylene	EPA 8020	ug/L	ND	0.5	2/3/98

ND = Not Detected, RL = Reporting Limit

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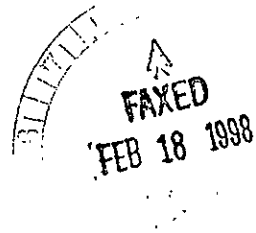
Sample conditions upon receipt were good

John R. Heuser
Chemist



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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	MW-3	**NQAL #:**	98JAN8372-02
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	3.2	0.1	2/3/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	3.9	0.5	2/3/98
Benzene	EPA 8020	ug/L	1070	0.5	2/3/98
Toluene	EPA 8020	ug/L	98	0.5	2/5/98
Ethyl Benzene	EPA 8020	ug/L	73	0.5	2/5/98
m&p Xylenes	EPA 8020	ug/L	40	0.5	2/3/98
o-Xylene	EPA 8020	ug/L	29	0.5	2/3/98

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Sample conditions upon receipt were good

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	MW-25	**NQAL #:**	98JAN8372-03
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	ND	0.1	2/3/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	10	0.5	2/3/98
Benzene	EPA 8020	ug/L	ND	0.5	2/3/98
Toluene	EPA 8020	ug/L	ND	0.5	2/3/98
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	2/3/98
m&p Xylenes	EPA 8020	ug/L	ND	0.5	2/3/98
o-Xylene	EPA 8020	ug/L	ND	0.5	2/3/98

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	MW-26	**NQAL #:**	98JAN8372-04
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	0.42	0.15	2/9/98
Gasoline Range Org.	CA Luft	mg/L	26	1.0	2/3/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	100	5.0	2/3/98
Benzene	EPA 8020	ug/L	23600	5.0	2/3/98
Toluene	EPA 8020	ug/L	ND	5.0	2/3/98
Ethyl Benzene	EPA 8020	ug/L	ND	5.0	2/3/98
m&p Xylenes	EPA 8020	ug/L	ND	5.0	2/3/98
o-Xylene	EPA 8020	ug/L	ND	5.0	2/3/98
Dichlorodifluoromethane	EPA 8010	µg/L	ND	0.5	1/30/98
Chlormethane	EPA 8010	µg/L	ND	0.5	1/30/98
Vinyl Chloride	EPA 8010	µg/L	ND	0.5	1/30/98
Bromomethane	EPA 8010	µg/L	ND	0.5	1/30/98
Chloroethane	EPA 8010	µg/L	ND	0.5	1/30/98
Trichlorofluoromethane	EPA 8010	µg/L	ND	0.5	1/30/98
1,1-Dichloroethylene	EPA 8010	µg/L	ND	0.5	1/30/98
Methylene Chloride	EPA 8010	µg/L	ND	2.0	1/30/98
trans-1,2-Dichloroethylene	EPA 8010	µg/L	ND	0.5	1/30/98
1,1-Dichloroethane	EPA 8010	µg/L	8.3	0.5	1/30/98
c 1,2-Dichloroethene	EPA 8010	µg/L	ND	0.5	1/30/98
Chloroform	EPA 8010	µg/L	ND	0.5	1/30/98
1,1,1-Trichloroethane	EPA 8010	µg/L	ND	0.5	1/30/98
Carbon Tetrachloride	EPA 8010	µg/L	ND	0.5	1/30/98
1,2-Dichloroethane	EPA 8010	µg/L	100	0.5	2/3/98
Trichloroethylene	EPA 8010	µg/L	ND	0.5	1/30/98

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	MW-26	**NQAL #:**	98JAN8372-04
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
1,2-Dichloropropane	EPA 8010	µg/L	ND	0.5	1/30/98
Bromodichloromethane	EPA 8010	µg/L	ND	0.5	1/30/98
cis-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	1/30/98
trans-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	1/30/98
1,1,2-Trichloroethane	EPA 8010	µg/L	ND	0.5	1/30/98
Tetrachloroethene	EPA 8010	µg/L	ND	0.5	1/30/98
Dibromochloromethane	EPA 8010	µg/L	ND	0.5	1/30/98
Chlorobenzene	EPA 8010	µg/L	ND	0.5	1/30/98
Bromoform	EPA 8010	µg/L	ND	0.5	1/30/98
1,1,2,2-Tetrachloroethane	EPA 8010	µg/L	ND	0.5	1/30/98
1,3-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	1/30/98
1,4-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	1/30/98
1,2-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	1/30/98

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Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé USA

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	MW-28	**NQAL #:**	98JAN8372-05
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	2/9/98
Gasoline Range Org.	CA Luft	mg/L	0.5	0.1	2/5/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	56	0.5	2/5/98
Benzene	EPA 8020	ug/L	7.6	0.5	2/5/98
Toluene	EPA 8020	ug/L	ND	0.5	2/5/98
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	2/5/98
m&p Xylenes	EPA 8020	ug/L	ND	0.5	2/5/98
o-Xylene	EPA 8020	ug/L	ND	0.5	2/5/98

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Sample conditions upon receipt were good

John R. Heuser
Chemist

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	MW-29	**NQAL #:**	98JAN8372-06
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	2/9/98
Gasoline Range Org.	CA Luft	mg/L	0.1	0.1	2/3/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	8.0	0.5	2/3/98
Benzene	EPA 8020	ug/L	ND	0.5	2/3/98
Toluene	EPA 8020	ug/L	ND	0.5	2/3/98
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	2/3/98
m&p Xylenes	EPA 8020	ug/L	ND	0.5	2/3/98
o-Xylene	EPA 8020	ug/L	ND	0.5	2/3/98

ND = Not Detected, RL = Reporting Limit

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Sample conditions upon receipt were good

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	MW-30	**NQAL #:**	98JAN8372-07
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	0.1	0.1	2/3/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	ND	0.5	2/3/98
Benzene	EPA 8020	ug/L	5.4	0.5	2/3/98
Toluene	EPA 8020	ug/L	ND	0.5	2/3/98
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	2/3/98
m&p Xylenes	EPA 8020	ug/L	ND	0.5	2/3/98
o-Xylene	EPA 8020	ug/L	ND	0.5	2/3/98

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé USA

6625 EITERMAN ROAD
DUBLIN, OH 43017

TEL (614) 791-9144
FAX (614) 793-5353

Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	MW-32	**NQAL #:**	98JAN8372-08
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	0.3	0.1	2/3/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	2.5	0.5	2/3/98
Benzene	EPA 8020	ug/L	13	0.5	2/3/98
Toluene	EPA 8020	ug/L	ND	0.5	2/3/98
Ethyl Benzene	EPA 8020	ug/L	1.0	0.5	2/3/98
m&p Xylenes	EPA 8020	ug/L	ND	0.5	2/3/98
o-Xylene	EPA 8020	ug/L	ND	0.5	2/3/98
Dichlorodifluoromethane	EPA 8010	µg/L	ND	0.5	1/31/98
Chlormethane	EPA 8010	µg/L	ND	0.5	1/31/98
Vinyl Chloride	EPA 8010	µg/L	ND	0.5	1/31/98
Bromomethane	EPA 8010	µg/L	ND	0.5	1/31/98
Chloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
Trichlorofluoromethane	EPA 8010	µg/L	ND	0.5	1/31/98
1,1-Dichloroethylene	EPA 8010	µg/L	ND	0.5	1/31/98
Methylene Chloride	EPA 8010	µg/L	ND	0.5	1/31/98
trans-1,2-Dichloroethylene	EPA 8010	µg/L	ND	0.5	1/31/98
1,1-Dichloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
c 1,2-Dichloroethene	EPA 8010	µg/L	ND	0.5	1/31/98
Chloroform	EPA 8010	µg/L	ND	0.5	1/31/98
1,1,1-Trichloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
Carbon Tetrachloride	EPA 8010	µg/L	ND	0.5	1/31/98
1,2-Dichloroethane	EPA 8010	µg/L	7.5	0.5	1/31/98
Trichloroethylene	EPA 8010	µg/L	ND	0.5	1/31/98

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372
Sample ID:	MW-32	**NQAL #:**	98JAN8372-08
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
1,2-Dichloropropane	EPA 8010	µg/L	ND	0.5	1/31/98
Bromodichloromethane	EPA 8010	µg/L	ND	0.5	1/31/98
cis-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	1/31/98
trans-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	1/31/98
1,1,2-Trichloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
Tetrachloroethene	EPA 8010	µg/L	ND	0.5	1/31/98
Dibromochloromethane	EPA 8010	µg/L	ND	0.5	1/31/98
Chlorobenzene	EPA 8010	µg/L	ND	0.5	1/31/98
Bromoform	EPA 8010	µg/L	ND	0.5	1/31/98
1,1,2,2-Tetrachloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
1,3-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	1/31/98
1,4-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	1/31/98
1,2-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	1/31/98

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Sample conditions upon receipt were good

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Chemist

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372
Sample ID:	Rinse Blank	**NQAL #:**	98JAN8372-09
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	2/9/98
Gasoline Range Org.	CA Luft	mg/L	ND	0.1	2/5/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	ND	0.5	2/5/98
Benzene	EPA 8020	ug/L	ND	0.5	2/5/98
Toluene	EPA 8020	ug/L	ND	0.5	2/5/98
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	2/5/98
m&p Xylenes	EPA 8020	ug/L	ND	0.5	2/5/98
o-Xylene	EPA 8020	ug/L	ND	0.5	2/5/98
Dichlorodifluoromethane	EPA 8010	µg/L	ND	0.5	1/31/98
Chlormethane	EPA 8010	µg/L	ND	0.5	1/31/98
Vinyl Chloride	EPA 8010	µg/L	ND	0.5	1/31/98
Bromomethane	EPA 8010	µg/L	ND	0.5	1/31/98
Chloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
Trichlorofluoromethane	EPA 8010	µg/L	ND	0.5	1/31/98
1,1-Dichloroethylene	EPA 8010	µg/L	ND	0.5	1/31/98
Methylene Chloride	EPA 8010	µg/L	ND	0.5	1/31/98
trans-1,2-Dichloroethylene	EPA 8010	µg/L	ND	0.5	1/31/98
1,1-Dichloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
c 1,2-Dichloroethene	EPA 8010	µg/L	ND	0.5	1/31/98
Chloroform	EPA 8010	µg/L	2.2	0.5	1/31/98
1,1,1-Trichloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
Carbon Tetrachloride	EPA 8010	µg/L	ND	0.5	1/31/98
1,2-Dichloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
Trichloroethylene	EPA 8010	µg/L	ND	0.5	1/31/98

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	Rinse Blank	**NQAL #:**	98JAN8372-09
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
1,2-Dichloropropane	EPA 8010	µg/L	ND	0.5	1/31/98
Bromodichloromethane	EPA 8010	µg/L	ND	0.5	1/31/98
cis-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	1/31/98
trans-1,3-Dichloropropylene	EPA 8010	µg/L	ND	0.5	1/31/98
1,1,2-Trichloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
Tetrachloroethene	EPA 8010	µg/L	ND	0.5	1/31/98
Dibromochloromethane	EPA 8010	µg/L	ND	0.5	1/31/98
Chlorobenzene	EPA 8010	µg/L	ND	0.5	1/31/98
Bromoform	EPA 8010	µg/L	ND	0.5	1/31/98
1,1,2,2-Tetrachloroethane	EPA 8010	µg/L	ND	0.5	1/31/98
1,3-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	1/31/98
1,4-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	1/31/98
1,2-Dichlorobenzene	EPA 8010	µg/L	ND	0.5	1/31/98

ND = Not Detected, RL = Reporting Limit

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Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé USA

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DUBLIN, OH 43017

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	2/17/98
Company:	Nestle USA Inc.	**Date Sample Collected:**	1/27/98
	800 N. Brand Blvd.	**Date Sample Received:**	1/28/98
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	98JAN8372

Sample ID:	Trip Blank	**NQAL #:**	98JAN8372-10
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	ND	0.1	2/5/98
Methyl-t-Butyl Ether	EPA 8020	ug/L	ND	0.5	2/5/98
Benzene	EPA 8020	ug/L	ND	0.5	2/5/98
Toluene	EPA 8020	ug/L	ND	0.5	2/5/98
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	2/5/98
m&p Xylenes	EPA 8020	ug/L	ND	0.5	2/5/98
o-Xylene	EPA 8020	ug/L	ND	0.5	2/5/98

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

Company Name: Nestle

Project Manager or Contact: DOUG ORAM

Phone: 510-283-7077 ext 205

Project No. 609466.01

Project Name: Nestle 1310 14th ST. OAKLAND, CA

Dept.: 2161 Task: 0006

Sample Storage Location: EA

ATO Number:

Page 1 of 1

Report #.

Parameters/Method Numbers for Analysis

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Report Deliverables: 1 2 3 4 D E

EDD: Yes/No

DUE TO CLIENT: _____

	Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	GRO (TPH-G)	BTEX	DRO (TPH-D)	8010	EA Labs Accession Number	Remarks
8372												
01	1-27-98	1050	X		MW2	4	X	X	X			LPM:
02	1-27-98	1155	X		MW3	3	X	X				Project Summary No.:
03	1-27-98	1000	X		MW2S	3	X	X				
04	1-27-98	1019	X		MW26	7	X	X	X	X		
05	1-27-98	945	X		MW28	4	X	X	X			
06	1-27-98	925	X		MW29	4	X	X	X			
07	1-27-98	1150	X		MW30	3	X	X				
08	1-27-98	1110	X		MW32	6	X	X		X		
09	1-27-98	900	X		RINSE BLANK	7	X	X	X	X		
10	1-27-98	NR	X		TRIP BLANK	2	X	X				HOLD (CHECK WITH DOUG ORAM)

Sampled by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	1-27-98 1500				
Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time	Airbill Number:	
		Linda Fowler	1/28/98 9:35AM		

Cooler Temp. 4. C pH: ☐ Yes ☐ No Comments:

Custody Seals Intact ☐ Yes ☐ No

Sample Shipped by: (Circle)
Fed Ex. Puro. UPS
Hand Carried
Other:

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laboratories PINK—Project Manager Shaded Areas for Lab Use Only