

ENVIRONMENTAL AUDIT, INC.

1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125

714/632-8521 • FAX: 714/632-6754

April 29, 1994 50
Project No. 1233

Ms. Eva Chu Alameda County Department of Environmental Health 80 Swan Way, #200 Oakland, CA 94621

RE: QUARTERLY GROUND WATER MONITORING REPORT

Montgomery Ward Auto Service Center 7575 Dublin Boulevard, Dublin, California

Dear Ms. Chu:

Enclosed herewith are two copies of our report entitled, "Ground Water Monitoring Report, Second Quarter 1994, Montgomery Ward Auto Service Center, 7575 Dublin Boulevard, Dublin, California," dated April 29, 1994. We are in the process of finalizing a status report for the site and it will be forwarded to you upon completion.

Please call the undersigned or Steven Bright if you have any questions or need additional information.

RED GEOLOG

FRANK S. MURAMOTO

No. 4248

OF CALIFOR

Sincerely,

ENVIRONMENTAL AUDIT, INC.

Christopher P.R. d'Sa, R.E.A.

Project Geologist

Frank S. Muramoto, R.G.

Senior Geologist

CPD:FSM:SAB:sss

enclosure

cc: C. West, Montgomery Ward (w/enclosure)

G. Jonas, Montgomery Ward (w/enclosure)

M. Gilmartin, Straw & Gilmartin (w/enclosure)

R. Enea, Enea Properties (w/enclosure)

CHRIS:1233M94B.DOC (c)

QUARTERLY GROUND WATER MONITORING REPORT

Second Quarter 1994
Montgomery Ward Auto Service Center
7575 Dublin Boulevard
Dublin, California

April 29, 1994

Project No. 1233

Prepared for:

Montgomery Ward & Co. Inc. 39201 Fremont Boulevard Fremont, CA 94538

ENVIRONMENTAL AUDIT, INC. ®

Planning, Environmental Analyses and Hazardous Substances Management and Remediation 1000-A ORTEGA WAY PLACENTIA, CA 92670-7125 714/632-8521

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GROUND WATER MONITORING REPORT SECOND QUARTER 1994

Montgomery Ward Auto Service Center 7575 Dublin Boulevard Dublin, California

1.0 INTRODUCTION

This document constitutes a quarterly ground water monitoring report for the Montgomery Ward Auto Service Center property located at 7575 Dublin Boulevard, Dublin, California (see Figure 1). This report represents the second quarter 1994 monitoring report.

A ground water extraction and treatment system (System) is operated and maintained at the site by others. Well B-12 is the only extraction well associated with the System (see Figure 2). All other wells function only as monitoring wells at this time. Wells MW-100, MW-101 and MW-102 were installed in May 1993, pursuant to a request by the Alameda County Department of Environmental Health, and were subsequently included in the quarterly ground water monitoring.

As requested by the Montgomery Ward & Company, Inc., the wells at the ENEA Properties site located at the immediately south of the intersection of Amador Plaza Road and Dublin Boulevard were also gauged and sampled as part of this quarter's monitoring activities.

2.0 FIELD INVESTIGATION

2.1 GROUND WATER ELEVATION SURVEY

On April 4, 1994, Environmental Audit, Inc. obtained ground water depth measurements from the wells associated with the site and the Enea Properties ground water monitoring wells using an Oil Recovery Systems' interface probe accurate to 0.01 feet. No free-product was detected in the wells during gauging activities. The measured water levels were converted to elevations by subtracting the measured water level from the ground level datum for each well (see Table 1). Ground water elevation data obtained from the wells were used to construct a ground water elevation map (see Figure 2).

2.2 GROUND WATER AND EFFLUENT SAMPLING

On April 4 and 5, 1994, ground water samples were obtained from the wells for analytical testing. Prior to sampling, all wells except extraction well B-12 were purged using a Whale Supersub 921 submersible pump. Purging activities continued until the temperature, conductivity and pH of the extracted water had stabilized (see Appendix A).

Since the System remained active during this quarter's monitoring event, purging of well B-12 prior to sampling was unnecessary. Well B-12 was sampled first, and all other wells were sampled in the order that purging activities were completed. The water samples were collected from just below the water surface using Voss Technologies disposable bottom bailers equipped with volatile organic compound samplers. Use of these bailers precludes the potential for cross-contamination. A treated effluent sample was obtained from the sampling port located downstream of the two 2,000-pound carbon canisters. The water samples were

sealed in two 40-milliliter (ml) VOA vials with Teflon septa lined lids and in one-liter plastic bottles. The containers were completely filled so that no head space existed between the samples and the lids. The samples were labeled with the sample point identification, date, time and EAI project number, and immediately placed into an ice chest chilled using frozen blue ice. The samples were kept chilled until delivered to the laboratory for analytical testing. All samples were logged on a chain of custody record form (see Appendix B).

2.3 SAMPLING EQUIPMENT CLEANING PROTOCOL

The submersible pump and hose (Equipment) used to purge the wells prior to sampling was decontaminated between each purging activity using the following procedure: 1) the Equipment was flushed in a solution of Alconox detergent and tap water; and 2) the Equipment was flushed with tap water.

2.4 EFFLUENT HANDLING

All effluent generated during purging, sampling and equipment decontamination activities was temporarily stored in seven 55-gallon drums which were then emptied into the System for treatment and subsequent discharge into the sanitary sewerage system.

3.0 ANALYTICAL TESTING

All samples were delivered for analytical testing to Sequoia Analytical, a state certified hazardous waste testing laboratory (Certificate No. 1271) located in Concord, California. The samples were tested for total petroleum hydrocarbons as gasoline (TPH-G) using modified EPA Method 8015, benzene, toluene, xylenes and ethylbenzene (BTXE) using EPA Method 8020, and total lead using EPA Method 7420. The results of the testing are shown in Table 2 along with the results from previous period's testing. The laboratory reports are contained in Appendix C.

The analytical results for Enea well MW-1 and MW-2 have been interchanged in Table 2 for this period, since it is believed that these samples were mislabeled by EAI's field personnel.

4.0 SYSTEM OPERATION/MAINTENANCE

On April 14 and 15, 1994, EAI personnel visited the site to evaluate System extraction efficiency. Examination of the System indicated that the extraction pump in well B-12, a Grundfos four-inch submersible pump, was not working at full capacity. A new 0.5 horsepower, 10 gallon per minute (gpm) rated Grundfos, four-inch submersible pump, Model No. 7S05-10, was installed in the extraction well in order to eliminate as much downtime as possible. The pump also was installed with a five-inch diameter PVC cooling shroud and a filter bag to prevent fines from being pumped into the treatment system.

A Franklin Pumptec pump controller also was installed. The Pumptec controls the pump by sensing when an electrical load is on the pump, i.e., the pump is pumping water. When the Pumptec senses that there is no load present on the pump (that is when the pump is out of water), the pump is shut-off. The Pumptec controller has an adjustable timer which

allows the pump to remain off for a predetermined period of time ranging from 2 minutes to 90 minutes. After the time period has expired, pumping of ground water is resumed.

Since lithology at the site is mostly silts and clays, 90 minutes was selected as the period of time for the pump to remain off which in turn would allow for sufficient recharge in the well. This recharge period will be monitored and, if necessary, appropriate adjustments will be made.

Table 3 presents the flowmeter measurements obtained on April 15, 22, and 26, 1994, following installation of the new extraction pump. The data show that, over this 11 day period (at 24 hours per day), the pump is extracting on average about 5.5 gpm. However, EAI estimates that the Pumptec controller shuts down the pump about five times per day (approximately 7.5 hours/24 hour period). Therefore, since an eight gpm rated flow regulator is present on the discharge side of the ground water pump to limit flow to the maximum capacity of the oil/water separator, the pump is believed to be extracting ground water at a rate of eight gpm.

5.0 LIMITATION

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities. As directed by Montgomery Ward, EAI's scope of work was limited to generating and summarizing data. No other warranty, expressed or implied, is made as to the professional advice contained in this report.

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GROUND WATER ELEVATIONS

Montgomery Ward Auto Service Center ENEA Properties Dublin, California

					Page 1 of 4
Date Measured	Elevation of top surface of PVC well casing (feet MSL)	Measured depth to ground water (feet bgs)	Measured depth to Product	Product Thickness	Ground water elevation (feet MSL)
B-5					
	340.05				
04-16-92		10.62	-	0	329.43
07-24-92		11.91	-	0	328.14
10-22-92		12.97	-	0	327.08
01-15-93		12.97	-	0	327.08
04-15-93		9.75	-	0	330.30
05-14-93		10.07	-	0	329.98
07-14-93		10.80	-	0	329.25
10-14-93		12.08	-	0	327.97
01-13-94		12.23	-	0	327.82
04-04-94		11.30	-	0	328.75
B-10					
	339.70	 -			
04-16-92		10.32	-	0	329.38
07-24-92		11.69	-	0	328.01
10-22-92		12.67	-	0	327.03
01-15-93		9.48	-	0	330.22
04-15-93		9.49	-	0	330.21
05-14-93		9.87	-	0	329.83
07-14-93		10.64	-	0	329.06
10-14-93		11.80	-	0	327.90
01-13-94		11.94	-	0	327.76
04-04-94		11.00	-	0	328.70
B-12				<u></u>	
<u>D-12</u>	339.10				
04-16-92		9.95	-	0	329.15
07-24-92		11.57	-	0	327.53
10-22-92		12.82	_	0	326.28
01-15-93		8.66	-	0	330.44
04-15-93		8.70	-	0	330.40
05-14-93		9.32	-	0	329.78
07-14-93		9.95	-	0	329.15
10-14-93		10.94	-	0	328.16
01-13-94		11.28	-	0	327.82
04-04-94		10.32		0	328.78

GROUND WATER ELEVATIONS

Montgomery Ward Auto Service Center ENEA Properties Dublin, California

	·				Page 2 of 4
Date Measured	Elevation of top surface of PVC well casing (feet MSL)	Measured depth to ground water (feet bgs)	Measured depth to Product	Product Thickness	Ground water elevation (feet MSL)
B-15					
	340.62				
04-16-92		11.09	-	0	329.53
07-24-92		12.33	-	0	328.29
10-22-92		13.25	-	0	327.37
01-15-93		10.22	-	0	330.40
04-15-93		10.26	-	0	330.36
05-14-93		10.64	-	0	329.98
07-14-93		11.35	-	0	329.27
10-14-93		12.41	-	0	328.21
01-13-94		12.59	-	0	328.03
04-04-94		11.74	-	0	328.88
B-16				···	·
	339.82				
04-16-92	333.02	10.63	_	0	329.19
07-24-92		11.90	-	0	327.92
10-22-92		12.88	_	0	326.94
01-15-93		9.79	-	0	330.03
04-15-93		9.83	_	0	329.99
05-14-93		10.20	-	0	329.62
07-14-93		10.92	-	0	328.90
10-14-93		11.99	-	0	327.83
01-13-94		12.16	-	0	327.66
04-04-94	•	11.28	-	0	328.54
MW-100		PACE -			
	339.61				
05-14-93		10.34	-	0	329.27
07-14-93		11.00	-	0	328.61
10-14-93		12.12	-	0	327.49
01-13-94		12.25	-	0	327.36
04-04-94		11.36	-	0	328.25
		- _ - =		_	

GROUND WATER ELEVATIONS

Montgomery Ward Auto Service Center ENEA Properties Dublin, California

		Dublin, Californi	a		
					Page 3 of 4
Date Measured	Elevation of top surface of PVC well casing (feet MSL)	Measured depth to ground water (feet bgs)	Measured depth to Product	Product Thickness	Ground water elevation (feet MSL)
MW-101			N	···	
	338.54		***************************************		
05-14-93		9.91	_	0	328.63
07-14-93		10.38	-	0	328.16
10-14-93		11.30	-	0	327.24
01-13 - 94		11.21	-	0	327.33
04-04-94		10.69	•	0	327.85
MW-102					
	339.23				
05-14-93		9.60	-	0	329.63
07-14 -9 3		10.31	-	0	328.92
10-14- 9 3		11.57	-	0	327.66
01-13 - 94		11.71	-	0	327.52
04-04-94		10.83	-	0	328.40
ENEA M	W-1				
	335.84				
10-14-93		9.05	-	0	326.79
01-13-94		NM	-	0	NM
04-04-94		8.36	-	0	327.48
ENEA M	W-2				
	335.61				
10-14-93		8.90	-	0	326.71
01-13-94		NM	-	0	NM
04-04-94		8.05	-	0	327.56
ENEA M	W-3				
	336.93				
10-14-93		9.89	-	0	327.84
01-13-94 04-04-94		NM	-	0	NM
		9.19		0	327.74

GROUND WATER ELEVATIONS

Montgomery Ward Auto Service Center ENEA Properties Dublin, California

Date Measured	Elevation of top surface of PVC well casing (feet MSL)	Measured depth to ground water (feet bgs)	Measured depth to Product	Product Thickness	Page 4 of 4 Ground water elevation (feet MSL)
ENEA M	W-4				
	335.76				
10-14-93		NI	-	0	NI
)1-13-94		NM	-	0	NM
)4 - 04-94		8.55	-	0	327.21
ENEA EV	W-1				
	336.08				······································
10-14-93		NI	-	0	NI
)1-13-94		NM	-	0	NM
04-04-94		8.62	-	0	327.46
NOTES:					
NI -	Not installed, NM - Not n	neasured			
MSL -	Mean Sea Level				
ogs -	below ground surface				
-	Depth to water is as measu	red from the cut notch at the	top side of each PVC well c	asing.	
-		were surveyed in October 199 located along Dublin Bouleva			
-	The elevation of all depth televation datum surveyed of	o water measurements were con October 14, 1993.	onverted to mean sea level of	elevations using w	ell casing
-	Wells B-5, B-12, B-15, B-with 7575 Dublin Boulevan	16, MW-100, MW-101 and M rd.	IW-102 are owned by Mont	gomery Ward and	are associated
-		7-3, MW-4 and EW-1 are own dor Plaza Road and Dublin Bo		are located at the H	Enea Plaza located

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ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center ENEA Properties Dublin, California Parts per billion (ppb)

Page 1 of 3

Well B-5

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
04-16-92	4400	670	160	280	320	ND
07-24-92	31000	5400	2600	2200	5800	ND
10-22-92	9100	1100	190	520	740	ND
01-15-93	2300	530	160	300	470	7.9
04-15-93	4900	600	160	470	390	ND
07-14-93	8800	590	210	840	1100	9.9
10-14-93	4500	530	46	490	350	ND
01-13-94	120	15	1.9	12	11	ND
04-04-94	5700	450	39	350	400	ND

Well B-10

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
04-16-92	7300	1400	640	880	1100	ND
07-24-92	27000	3800	1600	2000	4000	ND
10-22-92	16000	2300	340	1100	1200	ND
01-15-93	10000	1400	310	730	1100	13
04-15-93	8100	580	270	810	580	19
07-14-93	6400	840	120	<i>75</i> 0	800	7.1
10-14-93	100000	720	120	930	1100	ND
01-13-94	18000	990	180	1300	2400	ND
04-04-94	12000	370	96	900	1800	ND

Well B-12

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
04-16-92	12000	1300	1100	510	1200	ND
07-24-92	12000	1000	630	520	1000	ND
10-22-92	11000	370	230	400	940	ND
01-15-93	120	2.8	ND	1.6	3.6	11
04-15-93	7100	730	240	350	570	ND
07-14-93	4500	540	97	380	610	ND
10-14 - 93	11000	710	170	650	1600	ND
01-13-94	6000	330	100	330	620	24
04-04-94	8700	350	58	350	660	ND

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center ENEA Properties Dublin, California Parts per billion (ppb)

Page 2 of 3

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Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
04-16-92	65	4.4	2.4	6.1	2.8	ND
07-24-92	ND	3.6	1.5	3.1	1.6	ND
10-22-92	ND	1.7	0.89	0.78	0.88	ND
01-15-93	ND	ND	ND	ND	ND	13
04-15-93	ND	2.8	ND	3.0	1.5	ND
07-14-93	ND	ND	ND	0.57	0.74	7.8
10-14-93	ND	0.96	2.6	1.3	3.6	25
01-13-94	ND	ND	0.92	0.70	2	ND
04-04-94	ND	ND	ND	0.56	1	ND

Well B-16

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
04-16-92	1300	390	1.7	35	9.3	ND
07-24-92	1600	120	5.7	120	410	ND
10-22-92	1000	76	ND	55	130	ND
01-15-93	160	6.5	0.86	2.3	2.6	5.5
04-15-93	300	65	ND	13	2	ND
07-14-93	170	5.9	ND	4.6	12	ND
10-14-93	390	11	2.4	16	45	21
01-13-94	350	8.7	0.62	25	68	ND
04-04-94	550	8.7	ND	35	81	ND

Well MW-100

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
05-13-93	13000	83	ND	960	820	NA
07-14-93	13000	32	ND	1400	790	8
10-14-93	7500	48	16	900	520	22
01-13 -9 4	7000	51	ND	590	330	ND
04-04-94	9800	69	ND	540	410	ND

Well MW-101

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
05-13-93	ND	ND	ND	ND	ND	NA
07-14-93	ND	ND	ND	ND	ND	11
10-14-93	ND	0.65	0.89	ND	1.1	ND
01-13-94	ND	ND	ND	ND	ND	28
04-04-94	ND	ND	ND	ND	ND	ND

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center
ENEA Properties
Dublin, California
Parts per billion (ppb)

Page 3 of 3

Wel	l M	rw-	102

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
05-13-93	3600	17	ND	130	63	NA
07-14-93	1500	13	ND	64	4.9	ND
10-14 -9 3	24000	9.6	5.2	60	60	ND
01-13-94	2000	22	ND	26	55	ND
04-04-94	2100	16	2.5	15	35	ND

EFFLUENT

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
04-15-93	ND	ND	ND	ND	ND	ND
07-14-93	ND	ND	ND	ND	ND	ND
10-14 - 93	ND	ND	ND	ND	0.97	48
01-13-94	ND	ND	ND	ND	ND	ND
04-04-94	ND	ND	ND	ND	ND	33

ENEA MW-1

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
10-14-93	5700	76	19	160	460	ND
04-04-94*	7000	27	ND	260	49	ND

ENEA MW-2

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
10-14-93	ND	ND	ND	1.1	0.71	21
04-04-94*	ND	ND	ND	ND	ND	21

ENEA MW-3

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
10-14-93	2600	26	30	100	130	ND
04-04-94	2600	13	3.4	90	140	ND

ENEA MW-4

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
04-04-94	ND	ND	ND	ND	ND	23

NOTE:

ND Not Detected NA Not Analyzed

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Project No. 1233 ENVIRONMENTAL AUDIT, INC.

The results for ENEA wells MW-1 & MW-2 have been interchanged for the April 1994 period since it is believed that these samples were mislabeled by EAI's field personnel.

FLOW METER READINGS

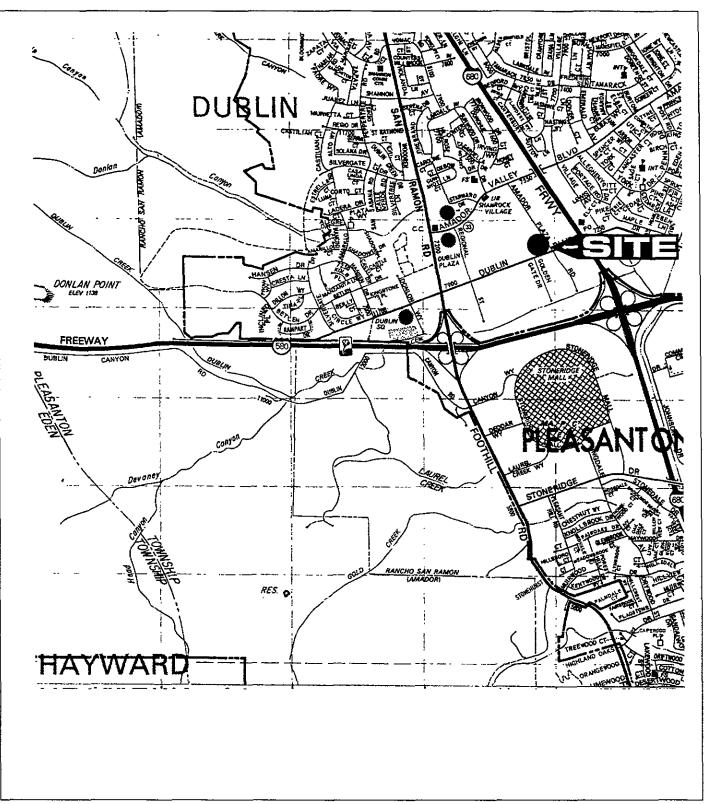
Montgomery Ward Auto Service Center Dublin, California

DATE	FLOW METER READING (in gallons)	AVERAGE GPM*
April 15, 1994 April 22, 1994 April 26, 1994	402,210 458,320 488,950	5.57 5.32
		AVERAGE 5.48

*GPM = Gallons Per Minute

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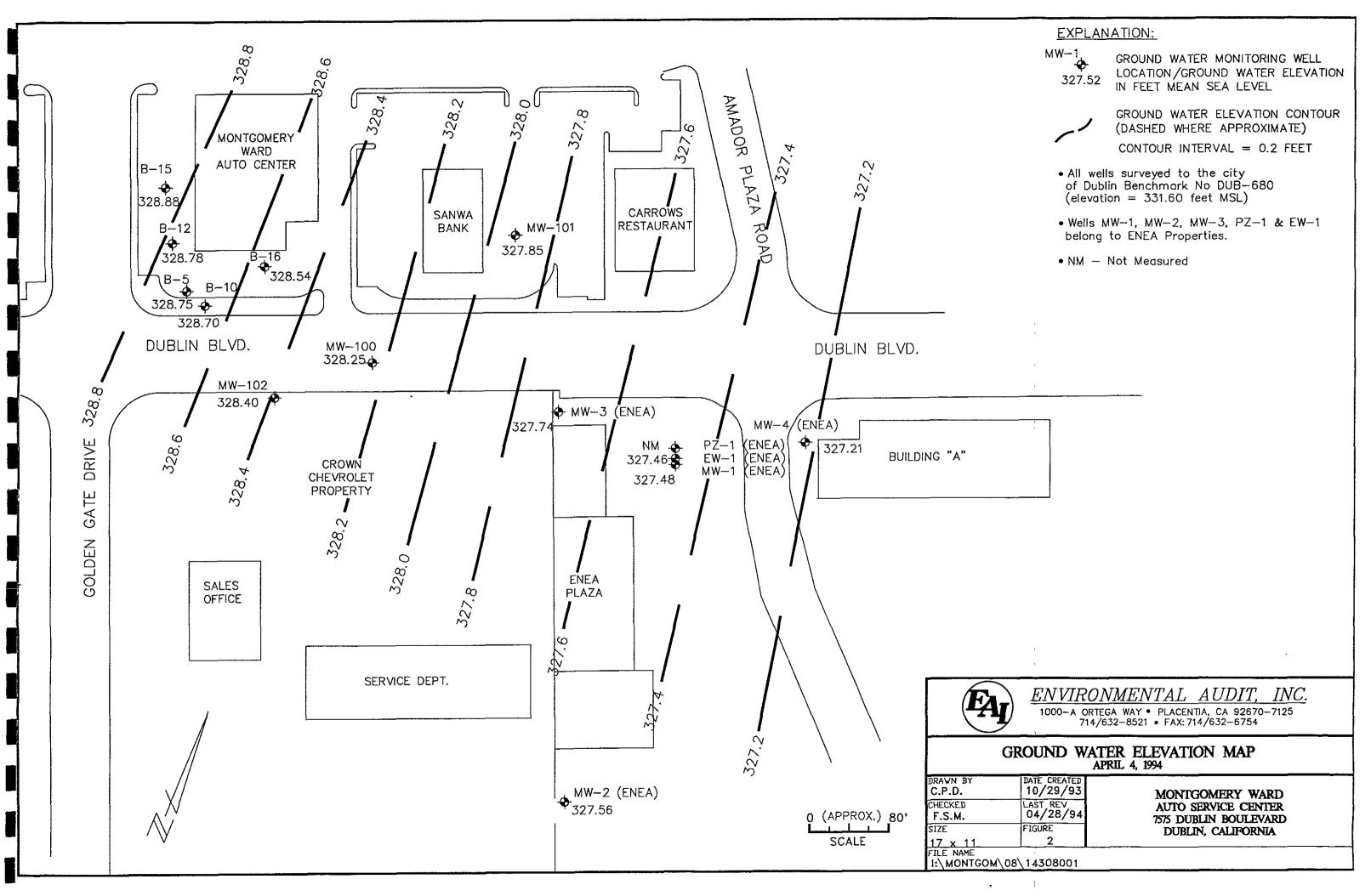


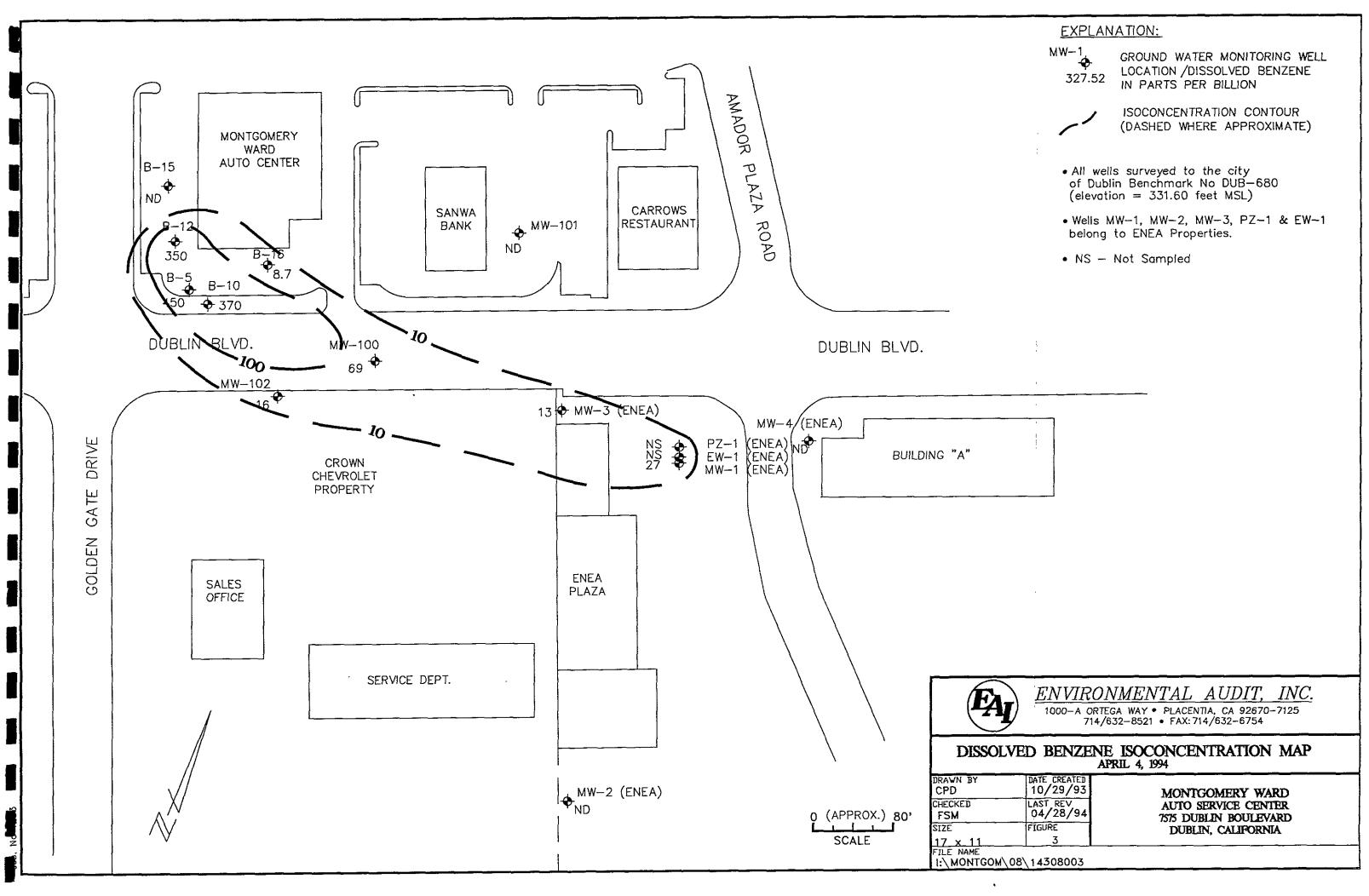
Environmental Audit, Inc.

LOCATION MAP 7575 Dublin Blvd. Dublin, California



Figure 1





APPENDIX A

Ground Water Sampling Log Forms

GROUND WATERSamp



COMMENTS: _

Environmental Audit, Inc.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125

DATE:	4/5/94
PROJECT NO.:	1233
	omery Ward, Dublin
WELL NO.:	B-5
WELL DIAMETER (INCHES):	2"
SAMPLED RV.	CPD

☎ (714) 632 - 8521 № (714) 632 - 6754 ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING: WELL VOLUME FACTORS WELL CASING ID (inches) **VOLUME FACTOR DEPTH TO WATER** DEPTH TO FREE TOTAL DEPTH OF WELL (ft.) LEVEL (ft. bgs) PRODUCT (fr. bgs) 2.0 0.16 4.0 0.65 21.00 11.30 6.0 1.47 1.55 0.16 WELL VOLUME ONE CASING χ **VOLUME FACTOR VOLUME OF WATER (GALLONS)** PURGE TIME (hrs.): START STOP 1011 1007 METHOD: DOWN HOLE PUMP [X] DEDICATED PUMP BAILER 🔲 OTHER 🗀 TYPE/MODEL: Whale Supersub 921 TEMP CONDUCTIVITY TURBIDITY **GALLONS** REMARKS рΗ (NTU) PURGED (°F) (Micro-ohms/cm) x 103 66.7 2 132.7 10.91 1.01 4 26.4 67.8 1.06 6.61 17.3 67.7 1.07 6.42 0 67.9 14.7 6.35 S 1.08 SAMPLING INFORMATION 020 TIME SAMPLED (hrs.): DEDICATED PUMP OTHER 🔲 METHOD: DOWN HOLE PUMP BAILER X Voss Technologies Disposable TYPE/MODEL:



COMMENTS: _

Environmental Audit, Inc.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125

全 (714) 632 - 8521 区 (714) 632 - 6754

<u>-</u>	
DATE:	4/5/94
PROJECT NO.:	1233
CLIENT: Monte	gomery Ward, Dublin
WELL NO.:	B-10
WELL DIAMETER (INCHES):	2"
SAMPLED BY:	CPD

PURGING INFORMATION ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING: **WELL VOLUME FACTORS** WELL CASING ID (inches) **VOLUME FACTOR DEPTH TO WATER** TOTAL DEPTH OF DEPTH TO FREE LEVEL (ft. bgs) PRODUCT (ft. bgs) WELL (ft.) 2.0 0.16 4.0 0.65 20.00 11.00 6.0 1.47 0.16 1.44 -{|||| WELL VOLUME ONE CASING **VOLUME FACTOR VOLUME OF WATER (GALLONS)** PURGE TIME (hrs.): START 0937 STOP 0941 METHOD: DOWN HOLE PUMP X DEDICATED PUMP BAILER 🔲 OTHER Whale Supersub 921 TYPE/MODEL: TEMP CONDUCTIVITY TURBIDITY GALLONS REMARKS ρН PURGED (°F) (Micro-ohms/cm) x 10³ (NTU) 189 6.87 65.7 1.01 2 65.8 1.04 6-70 74.S 65.7 71.5 1.03 6.45 4 65.7 1.04 6.35 6.7 65.6 1.03 6.51 6.49 1.02 6 65.6 ا، س*ا* SAMPLING INFORMATION TIME SAMPLED (hrs.): METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER X OTHER 🗀 Voss Technologies Disposable TYPE/MODEL:

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Environmental Audit, Inc.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125

☎ (714) 632 - 8521 **ॎ** (714) 632 - 6754

DATE:	4/5/94
PROJECT NO.:	1233
	gomery Ward, Dublin
WELL NO.:	B-15
WELL DIAMETER (INCHES):	4"
SAMPLED BY:	CPD

RGING INFORMATION ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING: WELL VOLUME FACTORS WELL CASING ID (inches) **VOLUME FACTOR** TOTAL DEPTH OF DEPTH TO WATER DEPTH TO FREE LEVEL (ft. bgs) PRODUCT (ft. bgs) WELL (ft.) 2.0 0.16 4.0 0.65 11.74 20. WH 0.6 1.47 8.9 0.65 5.79 X **WELL VOLUME** ONE CASING **VOLUME FACTOR VOLUME OF WATER (GALLONS)** 424 1410 STOP PURGE TIME (hrs.): START METHOD: DOWN HOLE PUMP X DEDICATED PUMP BAILER 🗀 OTHER 🔲 Whale Supersub 921 TYPE/MODEL: TURBIDITY TEMP CONDUCTIVITY GALLONS REMARKS рΗ (NTU) (°F) (Micro-ohms/cm) x 103 PURGED 41.6 5 7.44 70.6 1.10 15.4 6.94 70.7 1.01 10 13.8 70.2 10.67 15 1.06 7.5 20 70.1 1.04 6.63 1.04 6.59 5.1 14.8 25 ELL SAMPLING INFORMATION 1430 TIME SAMPLED (hrs.): METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER X OTHER Voss Technologies Disposable TYPE/MODEL: COMMENTS: _



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1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125 **2** (714) 632 - 8521 (714) 632 - 6754

DATE:	4/5/94
PROJECT NO.:	1233
	gomery Ward, Dublin
WELL NO.:	B-16
WELL DIAMETER (INCHES):	4"
SAMPLED BY:	CPD

PURGING INFORMATION ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING: WELL VOLUME FACTORS WELL CASING ID (inches) **VOLUME FACTOR** TOTAL DEPTH OF DEPTH TO WATER **DEPTH TO FREE** LEVEL (ft. bgs) PRODUCT (ft. bas) WELL (ft.) 2.0 0.16 4.0 0.65 11,28 13.35 6.0 1.47 7.85 12.07 0.45 -[][ONE CASING X WELL VOLUME VOLUME FACTOR **VOLUME OF WATER (GALLONS) START** STOP PURGE TIME (hrs.): 0900 0917 OTHER 🗀 METHOD: DOWN HOLE PUMP X DEDICATED PUMP 🔲 BAILER 🔲 Whale Supersub 921 TYPE/MODEL: CONDUCTIVITY TURBIDITY TEMP GALLONS REMARKS рΗ (°F) (Micro-ohms/cm) x 10³ (NTU) PURGED 4.4 7.63 5 1.02 60.7 J. ર્ષે 1.08 6.75 ID 1.8 15 1.10 6.65 1.09 6.47 67.2 20 1.5 1.4 75 6.33 67.1 1.10 67.5 6.29 1.1 1.17 30 67.7 35 1.0 1.10 0920 TIME SAMPLED (hrs.): METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER 🗓 OTHER 🔲 Voss Technologies Disposable TYPE/MODEL: COMMENTS: __



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雪 (714) 632 - 8521 図 (714) 632 - 6754

DATE:	4/5/94
PROJECT NO.:	1233
CLIENT:	Nontgomery Ward, Dublin
WELL NO.:	MW-100
WELL DIAMETER (INCHE	
SAMPLED BY:	CPD

WELL PURGING INFORMATION ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING: WELL VOLUME FACTORS WELL CASING ID (inches) **VOLUME FACTOR** TOTAL DEPTH OF DEPTH TO WATER DEPTH TO FREE PRODUCT (ft. bgs) WELL (ft.) LEVEL (ft. bgs) 2.0 0.16 4.0 0.65 11.36 6.0 1.47 10.82 16.64 0.65 χ **WELL VOLUME** ONE CASING **VOLUME FACTOR VOLUME OF WATER (GALLONS)** PURGE TIME (hrs.): START STOP 1259 1237 DEDICATED PUMP 🔲 OTHER 🗀 METHOD: DOWN HOLE PUMP 🔀 BAILER 🗀 Whale Supersub 921 TYPE/MODEL: TEMP CONDUCTIVITY TURBIDITY GALLONS REMARKS рΗ (°F) (UTM) PURGED (Micro-ohms/cm) x 103 74.8 1.20 7.20 12.6 1.19 10 10.5 75.6 4.32 S.2 IS 7S.3 1.16 6.40 3.3 20 1.16 6.15 1.12 6.14 25 74.3 2.6 1.14 30 74.2 6.13 26 74.3 1.9 1.15 35 6.07 1.14 2.0 74.1 6.08 40 73.9 45 1.15 6.04 SAMPLING INFORMATION

TIME SAMPLED (hrs.):	1310		
METHOD: DOWN HOLE PUMP	DEDICATED PUMP	BAILER 🗓	OTHER 🔲
TYPE/MODEL:	Voss Technologies Disposable	_	}
COMMENTS:			



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DATE:	4/5/94		
PROJECT NO.:	1233		
CLIENT: Monte	Montgomery Ward, Dublin		
WELL NO.:	MW-101		
WELL DIAMETER (INCHES):	4"		
SAMPLED BY:	CPD		

WELL PURGING INFORMATION

	WELL FUNG	ING IMPO	KIVIJATI OTA	
ONE CASING VOLUME OF WAT	ER CALCULATED USING THE FOLLO	WING:	WELL VOLU	ME FACTORS
TOTAL DEPTH OF	DEPTH TO WATER	DEPTH TO FREE	WELL CASING ID (inches)	VOLUME FACTOR
WELL (ft.)	LEVEL (ft. bgs)	PRODUCT (ft. bgs)	2.0	0.16
28	10.69		4.0	0.65
		<u> </u>	6.0	1.47
PURGE TIME (hrs.):	START 1652	7. 3) X	WELL VOLUME = ON	. 25 E CASING LUME OF WATER (GALLONS)
METHOD: DOWN HOLE PUMP TYPE/MODEL:	Whale Supersub 921	BAILER OT	HER 🗀	
			DOLDITY	

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10³	рН	TURBIDITY (NTU)	REMARKS
5	66.2	1.12	7.94	60	
10	66.8	1.15	7.01	7.0	
15	66.7	1.07	6.80	8.8	
20	66.4	-1.10	6.55	8.8	
25	66.5	1.14	6.68	7.01	
30	66.6	1.15	6-61	5.03	_
35	66.7	1.13	6.60	2.1	
40	66.5	1.12	6.54	1.4	
45	66.4	1.11	6.50	1. 1	

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.):	1750		
METHOD: DOWN HOLE PUMP	DEDICATED PUMP	BAILER X	OTHER 🗀
TYPE/MODEL:	Voss Technologies Disposable		
COMMENTS:			
		····	



TYPE/MODEL: -COMMENTS: _

Environmental Audit, Inc.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

DEDICATED PUMP

Voss Technologies Disposable

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125

☎ (714) 632 - 8521 **5**33 (714) 632 - 6754

DATE:	4/5/94
PROJECT NO.:	1233
CLIENT: Mont	gomery Ward, Dublin
WELL NO.:	MW-102
WELL DIAMETER (INCHES):	4"
SAMPLED BY:	CPD

WELL PURGING INFORMATION ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING: WELL VOLUME FACTORS WELL CASING ID (inches) **VOLUME FACTOR** DEPTH TO WATER TOTAL DEPTH OF DEPTH TO FREE LEVEL (ft. bgs) PRODUCT (ft. bas) WELL (ft.) 2.0 0.16 4.0 28 0.65 10.83 6.0 1.47 0.65 :||]**||** 11.16 **WELL VOLUME** X ONE CASING **VOLUME FACTOR VOLUME OF WATER (GALLONS)** START STOP 1100 PURGE TIME (hrs.): 1037 METHOD: DOWN HOLE PUMP X DEDICATED PUMP BAILER 🔲 OTHER 🗀 Whale Supersub 921 TYPE/MODEL: **TEMP** CONDUCTIVITY TURBIDITY GALLONS REMARKS рΗ (°F) (Micro-ohms/cm) x 103 (NTU) PURGED 68.2 7. 34 6.99 8.8 1.05 5.0 ID 6.66 68.8 1.03 6.28 15 3.1 20 1.04 6.41 3:0 68.7 1.05 25 6.16 2.1 1.7 30 ما 0 . / 6.12 35 02 6.09 1.6 68.9 1.6 40 1.03 6.05 69.0 1.4 45 03 6.06 SAMPLING INFORMATION 1115 TIME SAMPLED (hrs.): METHOD: DOWN HOLE PUMP

BAILER X

OTHER

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Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125 全 (714) 632 - 8521 区 (714) 632 - 6754

DATE:	4/4/94
PROJECT NO.:	1233
CLIENT: Mont	gomery Ward, Dublin
WELL NO.:	(ENEA) MW-1
WELL DIAMETER (INCHES):	4"
SAMPLED BY:	CPD

				SAMPL	ED BY:	CPD	
WELL PURGING INFORMATION							
ONE CASING VOLU	ME OF WATER CA	LCULATED USING THE FOLLOWI	NG:			. VOLUME FAC	TORS
TOTAL DEPTH OF WELL (fl.)		DEPTH TO WATER LEVEL (ft. bgs)	DEPTH TO FRE PRODUCT (ft. bg		WELL CASING 2.0	ID (inches) VOLI	JME FACTOR 0.16
15.10		08.36		Ţ	4.0 6.0		0.65
<u> </u>			5.6 -		0.0		1.77
	<u> </u>	(6·	/2)	_	. 65 LL VOLUME =	4.38 ONE CASING	
DUDGE TIME /her \	: STA	DT	STOP	YOL	UME FACTOR	VOLUME OF WATI	er (gallons)
PURGE TIME (hrs.)	:)IA	RT 417	. 3101	16	23		
METHOD: DOWN I	-	DEDICATED PUMP	BAILER 🔲	OTHER			
TYPE/MODEL:	Ĺ	Whale Supersub 921	 	_			
GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 103	pH	TURBI (NTI		REMARKS	
5	71.5	1.31	6.75	1.0	3		
10	70.1	1.16	6.61	1.0			
15 20	70.4	1.27	6.41	<u>4.</u> 3.,			
20	70	1.01	6.41	<u> </u>	د	<u></u>	
			-				
							
							
	N	<u>/ELL SAMPLI</u>	NG IN	FOR	MATIC	NCNC	
TIME SAMPLED (h	rs.):	1630					
METHOD: DOWN	HOLE PUMP	DEDICATED PUMP	BAILER 🖎	OTHER			
TYPE/MODEL: COMMENTS:	Ĺ	Voss Technologies Disposabl	# 				

GROUND WATERSampling Log Environmental Audit, Inc. ME: 4/4/94

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Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125 **全** (714) 632 - 8521 **区** (714) 632 - 6754

DATE:	4/4 /94	
PROJECT NO.:	1233	
	intgomery Ward, Dubl	ia
WELL NO.:	(ENEA) M	WZ
WELL DIAMETER (INCHES)	: 44	
SAMPLED BY:	CPD	

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING: WELL VOLUME FACTORS WELL CASING ID (inches) **VOLUME FACTOR** TOTAL DEPTH OF DEPTH TO WATER DEPTH TO FREE PRODUCT (ft. bgs) WELL (ft.) LEVEL (ft. bgs) 2.0 0.16 4.0 0.65 14.71 08.05 6.0 1.47 0.65 4.33 6.66 WELL VOLUME χ ONE CASING **VOLUME OF WATER (GALLONS) VOLUME FACTOR** 1539 PURGE TIME (hrs.): **START** STOP METHOD: DOWN HOLE PUMP X DEDICATED PUMP 🔲 BAILER [OTHER [Whale Supersub 921 TYPE/MODEL: **TEMP** CONDUCTIVITY TURBIDITY GALLONS REMARKS рΗ **PURGED** (°F) (Micro-ohms/cm) x 103 (NTU) 1S. S 7.03 23 71.4 5 71.4 10 20 6.18 4.4 70.9 6.09 2.5 19 15 5.98 20 1.18 1.9 71.0 SAMPLING INFORMATION TIME SAMPLED (hrs.): METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER X OTHER 🔲 Voss Technologies Disposable TYPE/MODEL : COMMENTS: _

	GROUND	WATERSamplin	ig Log
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Environmental Audit, Inc.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125 **☎** (714) 632 - 8521 ເສ (714) 632 - 6754

DATE:	4/4/94	
PROJECT NO.:	1233	_
CLIENT:	Montgomery Ward, Dublir	1
WELL NO.:	(ENEA) MW	13
WELL DIAMETER (INCH		
CAMPIED RV.	(PD)	

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING: WELL VOLUME FACTORS WELL CASING ID (inches) **VOLUME FACTOR** TOTAL DEPTH OF DEPTH TO WATER DEPTH TO FREE LEVEL (ft. bgs) PRODUCT (ft. bgs) WELL (ft.) 2.0 0.16 4.0 0.65 1510 6.0 1.47 3.84 5.91 0.65 χ WELL VOLUME ONE CASING **VOLUME FACTOR VOLUME OF WATER (GALLONS)** 1503 PURGE TIME (hrs.): START 454 STOP METHOD: DOWN HOLE PUMP X DEDICATED PUMP BAILER 🔲 OTHER 🗀 Whale Supersub 921 TYPE/MODEL: **TEMP** CONDUCTIVITY TURBIDITY **GALLONS** REMARKS рΗ PURGED (°F) (Micro-ohms/cm) x 103 (NTU) 8.18 1.26 9.41 70. l 8,20 1.20 0.10 2 69.8 0.10 8.00 69.4 1.21 7.SZ .15 SAMPLING INFORMATION 510 TIME SAMPLED (hrs.): METHOD: DOWN HOLE PUMP DEDICATED PUMP BAILER 🖎 OTHER 🔲 Voss Technologies Disposable TYPE/MODEL: COMMENTS: __



Environmental Audit, Inc.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A PLACENTIA, CA 92670-7125 **宮** (714) 632 - 8521 函 (714) 632 - 6754

DATE:	4/4/94
PROJECT NO.:	1233
CLIENT:	Montgomery Ward, Dublin
WELL NO.:	(ENEA) MW-4
WELL DIAMETER (INC	
SAMPLED BY:	CPD

PURGING INFORMAT ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING: WELL VOLUME FACTORS WELL CASING ID (inches) **VOLUME FACTOR** DEPTH TO WATER DEPTH TO FREE TOTAL DEPTH OF PRODUCT (ft. bgs) 2.0 WELL (ft.) LEVEL (ft. bgs) 0.16 8.55 4.0 0.65 22-30 6.0 1.47 2.2 12.75 0.16 X **WELL VOLUME** ONE CASING **VOLUME OF WATER (GALLONS) VOLUME FACTOR** STOP PURGE TIME (hrs.): START 1700 1710 OTHER 🗀 METHOD: DOWN HOLE PUMP 🖎 DEDICATED PUMP BAILER 🔲 Whale Supersub 921 TYPE/MODEL: TEMP CONDUCTIVITY TURBIDITY GALLONS REMARKS рΗ (°F) (UTN) (Micro-ohms/cm) x 103 PURGED 69.8 4 1. 25 6.61 **3**7_00 B S.Co 161 1.18 6.46 1.18 6.23 12 1.50 81 66.1 1.16 6.07 16 66.2 0.09 ميا ۱.۱ 4.01 20 SAMPLING INFORMATION 715 TIME SAMPLED (hrs.): METHOD: DOWN HOLE PUMP DEDICATED PUMP OTHER BAILER X Voss Technologies Disposable TYPE/MODEL: COMMENTS: _

APPENDIX B

Chain of Custody Record Forms

					Audit				w			C	ho	ik	n	0	f	C	US	stod	y F	Rec	or	d
$(\mathbf{L}\boldsymbol{\Delta}_{T})$	Plant	ning,	Environm	ental An	ialyses and it and Rem	l Ha	zai	rdo	บร		SAME	LING	REO	UIRE	MEN	TS:	RC	RA [) ı	NPDES 🖸	SDWA	g)		0
	1000	A OR	TEGA WAY	7	全 (714)	632	2 - 8	352	1			TEN (रा	π	JRN/	ROL	IND.	TIME:				
	PLAC	CENTI	A, CA 9267	70-7125	⊠ (714) 63	2-6	375	4		RWC		_			S/	ME	DAY		24hr 🔲 48hr 🔲 NORMAL 🐼				
PROJECT NO. 1233		٨	T NAME Aontgomer Dublin	y Ward,		CO	NTR E				ΛN	ALYSI	ES RE	OUE	STED				8		RE	MARKS		
SAMPLER: (Signature)			PRO	OJECT MANAGER: Frank Muramoto			TUBE	015M	015M	3.1 § 8020	4 8240	1 1	TALS TOT WET						OF CONTAINERS	Call at EA				148, tions
SAMPLE NUMBER DATE	TIME	COMP	SAMF	PLE DESCRIPT	TION	GLASS	BRASS/SS	TPH-D 8	7PH G 8	TRPH 412 BTEX 602	VOCS 62		CAM ME						NUMBER	·			····	
ENEAMW-3 444	1510	П	Wate	Water					/						40	46	12	3 AC	3	One two 4	1-Liter F (0-m! V	iastic Bot DA Vials (lle (lea	d) HNU3 PH) HCC
ENER MW-2	1557					1							V		1		121		3					
ENER MW-1	1630	17				\mathbb{Z}										0	125		3		<u></u> -			
EVEU WM-F A	1715		1			V_{ℓ}	1		/				1		V	0	2	1	3		<u>,</u>			
																		_				·····		
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RELINOUISHED BY: (Signatu	ure)		DATE/TIME 41 5/94 1916	RECEIVED I	BY: (Signature)	,, <u>,</u> ,,			REL	INOI	JISHE	O BY:	(Slgr	natur	TOT OF C e)	ON.			IME	RECEIVI	ED BY:	Signature	e)	
RELINOUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)							 	i	REL	INOL	JISHE	D BY:	(Slgr	atur	eļ		Di	ATE/	IME	RECEIVE	ED BY: (Signature	2}	
SAMPLES SHIPPED VIA: FEDEX D UPS D AIRBORNE D BUS D HAND XI							COURIER: (Signature) RECEIVED FOR BY: (Signature) LAB: Sequoia Analytical							0016/19/19/19/19/19/19/19										

	\	Environmental Audit, Inc.								Chain of Custody Record																
$(E\Delta)$,	Plann	ing, l	Environme ances Man	ental An	alyses and	d F	laza liati	ard	ous		sw	TPLIN	NG RE	OUR	EMEN	4TS:	R	.RA		VPDES []	SDWA	Ø		0	
		1000-/	A OR	TEGA WAY 4, CA 92670	-	2 (714	4) 6	632 - 8521 632 - 6754					WRITTEN OC REPORT TURN. ROUTINE OC 🖫 RWOCB OC 🗍 SAME								TIME: 24hr 🔲	481	or□ N	ORM	VT 🔯	
PROJECT NO. 1233		P	N	T NAME Nontgomery	Ward,			ONT YPE	R							ESTEC)			23		RE	MARKS			
SAMPLER: (Signature	1		Dublin PROJECT MANAGER: Frank Muramoto				PLASTIC	35 1 UBE 8015M	8015M	118.1	524 8240	525 8270	METALS TOT WET						ER OF CONTAINERS	Call at EAD		sd'Sag anyq				
SAMPLE NUMBER	DATE	TIME	GRAB GRAB	SAMPI	E DESCRIPT	TON	GLASS		THE CHANGE	TPH-G	TRPH 4	VOG.	503	CAMIN	GASI					NUMBER						
B-16	415	0%00		Water	Į.					/						4	d d	12	7 A	g ³			lastic Bottl OA Vials (B			
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B-10		1020															0	12	3	3						
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MW-100	}	1310					1	7		V	, /						0	13		3			<u> </u>		· · · · · · · · · · · · · · · · · · ·	
B-15		1430						1			. /						0	13	<u>, </u>	3						
B-12	V	1440		7	7			1			/							3		3						
RELINQUISHED BY:	(Signature) DATE/TIME RECEIVED BY: (Signature)					REI	UNO	UISH	ED E	BY: (Sf	gnatu		CON			TIME	RECEIVE	D BY: (S	Signature)							
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)					RELINQUISHE				BY: (Si	gnatu	ire)			ATE	TIME	RECEIVE	D BY: (S	ilgnature)								
		_	RBORN		SHIPPED BY	(; (Signature)				co	URIE	R: (SI	gnat	ure)					ECEI AB:	de	OR BY: ISIO KLL Quoia An	ley			nte/IME 4/5/94 1916	

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$L\Delta_1$,) !	Planni C.,	ng,	Environmei	ntal Analyses and agement and Rer	nedi H b	aza	on Ird	ous	S		SAM	PLIN	G RE	:QUI	REM	ENT:	s:	RCF	W [) (NPDES []	SDWA 8)			. a
7 7	<i>!!</i>	1000 (ORTE	GA WAY, S , CA 9267	UITE A 🕿 (71	4) 6.	32	- 8	52 75	1	- }	ROL	ITEN	OO	(ORT			NE C			TIME: 24hr □} 48hr □} NORMAL ☑			 a	
PROJECT NO. 1233			ROJEC	T NAME Nontgomer) Dublin		_	CON	NTR					VALY:			JEST	ED						REMAI	<u> </u>		
SAMPLER: (Signature)				PRO.	PROJECT MANAGER:			UBE	15M	15M	8020	8240	8270 ASE	ALS TOT WET	0,00	0.00					OF CONTAINERS	Call at EAI	Chris d if an			
SAMPLE NUMBER	DATE	TIME	GRAB GRAB	SAMP	LE DESCRIPTION	- J	PLASTIC	BRASS/SS	TPH-D 80	TPH-G 80	BTEX 602) 8020	VOC 624	EOC 625 OIL & GRE	CAM MET	EAD	יייייייייייייייייייייייייייייייייייייי					NUMBER	i				
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REUNOUISHED BY: [Signature] DATE/TIME RECEIVED BY: [Signature]			e)				RELI	NQU	ISHE	D B	Y: {SI	gnat	O Ore)	OTAL F CC				IME	RECEIVEL	BY; (Signa	iture)					
RELINOUISHED BY: (Signature) OATE/TIME RECEIVED BY: (Signature)			e)				RELI	NOU	ISHE	D B)	Y: (SI	gnat	ure)			DΑ	TE/I	IME	RECEIVED	BY; (Signa	iture)					
SAMPLES SHIPPED VIA: FEDEX UPS AIRBORNE U BUS HAND X U				COURIER: (Signature)						R: [Signature] RECEIVED FO). L	elle	y	DATE	MIME 194 V							

APPENDIX C

Laboratory Reports



Reporting

680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

Sample

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Environmental Audit 1000-A Ortega Way Placentia, CA 92670

Client Project ID: Sample Matrix:

1233/Montgomery Ward, Dublin Water

Sample

Sampled:

Apr 4 & 5, 1994 Apr 6, 1994,

Attention: Frank Muramoto

Analysis Method: First Sample #:

Sample

EPA 5030/8015/8020 404-0123

Received: Reported:

Sample

Apr 18, 1994 🖰

Sample

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

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Sample

Analyte	Limit μg/L	I.D. 404-0123 ENEA MW-3	I.D. 404-0124 ENEA MW-2	I.D. 404-0125 ENEA MW-1	I.D. 404-0126 ENEA MW-4	I.D. 404-0127 B-16	I.D. 404-0128 B-5
Purgeable Hydrocarbons	50	2,600	7,000	N.D.	N.D.	550	5,700
Benzene	0.5	13	27	N.D.	N.D.	8.7	450
Toluene	0.5	3.4	N.D.	N.D.	N.D.	N.D.	39
Ethyl Benzene	0.5	90	260	N.D.	N.D.	35	350
Total Xylenes	0.5	140	49	N.D.	N.D.	81	400
Chromatogram Patt	tern:	Gasoline	Gasoline		- -	Gasoline	Gasoline
Quality Control Da	ta						
Report Limit Multipl	ication Factor:	10	20	1.0	1.0	1.0	10
Date Analyzed:		4/15/94	4/14/94	4/13/94	4/13/94	4/13/94	4/14/94
Instrument Identifica	ation:	HP-4	HP-2	HP-2	HP-2	HP-2	HP-2
1		4-4					

113

105

101

101

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

121

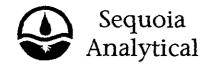
SEQUOIA ANALYTICAL, #1271

Surrogate Recovery, %:

(QC Limits = 70-130%)

Karen L. Enstrom Project Manager

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680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Environmental Audit Client Project ID: 1000-A Ortega Way Placentia, CA 92670 Attention: Frank Muramoto

Sample Matrix:

1233/Montgomery Ward, Dublin Water

iblin Sampled: Apr 4 & 5, 1994 Received: Apr 6, 1994

Analysis Method: First Sample #: is entruges de la compaction de la compactica de la compactida de la compactica de la compactica de la compactica de la compa

EPA 5030/8015/8020 404-0129

Reported: Apr 18, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit μg/L	Sample I.D. 404-0129 B-10	Sample I.D. 404-0130 MW-102	Sample I.D. 404-0131 MW-100	Sample I.D. 404-0132 B-15	Sample I.D. 404-0133 B-12	Sample I.D. 404-0134 Effluent
Purgeable Hydrocarbons	50	12,000	2,100	9,800	N.D.	8,700	N.D.
Benzene	0.5	370	16	69	N.D.	350	N.D.
Toluene	0.5	96	2.5	N.D.	N.D.	58	N.D.
Ethyl Benzene	0.5	900	15	540	0.56	350	N.D.
Total Xylenes	0.5	1,800	35	410	1.0	660	N.D.
Chromatogram Pat	itern:	Gasoline	Gasoline	Gasoline		Gasoline	

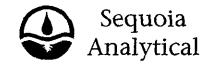
Quality Control Data

Report Limit Multiplication Factor:	100	4.0	100	1.0	100	1.0
Date Analyzed:	4/13/94	4/14/94	4/13/94	4/13/94	4/13/94	4/13/94
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	104	120	107	99	104	100

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

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Karen L. Enstrom Project Manager



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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Environmental Audit 1000-A Ortega Way Placentia, CA 92670 Client Project ID: Sample Matrix:

1233/Montgomery Ward, Dublin Water

Sampled: Received:

Apr 5, 1994 Apr 6, 1994:

Attention: Frank Muramoto

Analysis Method: First Sample #:

EPA 5030/8015/8020 404-0135

Reported:

Apr 18, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit μg/L	Sample I.D. 404-0135 MW-101	
Purgeable Hydrocarbons	50	N.D.	
Benzene	0.5	N.D.	
Toluene	0.5	N.D.	
Ethyl Benzene	0.5	N.D.	
Total Xylenes	0.5	N.D.	
Chromatogram Patter	n:		

Quality Control Data

Report Limit Multiplication Factor: 1.0

Date Analyzed: 4/15/94

Instrument Identification: HP-5

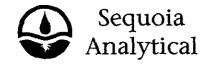
Surrogate Recovery, %: 101

(QC Limits = 70-130%)

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

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Environmental Audit Client Project ID: 1233/Montgomery Ward, Dublin Sampled: Apr 4 & 5, 1994 1000-A Ortega Way Sample Descript: Water Apr 6, 1994 Received: Placentia, CA 92670 Analysis for: Lead Apr 12, 1994 Extracted: Attention: Frank Muramoto First Sample #: 404-0123 Apr 14, 1994 Analyzed: Reported: Apr 18, 1994 Karagosof pro erekatuteropresutego eregera eregera eregera eregera eregera eregera eregera eregera eregera er Pomezente arezore

	LABORATO	OR:	Lead	
Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	
404-0123	ENEA MW-3	0.020	N.D.	
404-0124	ENEA MW-2	0.020	N.D.	
404-0125	ENEA MW-1	0.020	0.021	
404-0126	ENEA MW-4	0.020	0.023	
404-0127	B-16	0.020	N.D.	
404-0128	B-5	0.020	N.D.	
404-0129	B-10	0.020	N.D.	
404-0130	MW-102	0.020	N.D.	
404-0131	MW-100	0.020	N.D.	
404-0132	B-15	0.020	N.D.	

Analytes reported as N.D. were not present above the stated limit of detection.

0.020

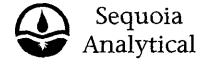
B-12

SEQUOIA AN<u>AL</u>YTICAL, #1271

Karen L. Enstrom Project Manager

404-0133

N.D.



680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834 (415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Environmental Audit 1000-A Ortega Way Placentia, CA 92670 Attention: Frank Muramoto

Client Project ID: 1233/Montgomery Ward, Dublin Sample Descript: Water
Analysis for: Lead
First Sample #: 404-0134

Sampled: Apr 5, 1994 Received: Apr 6, 1994 Extracted: Apr 12, 1994 Analyzed: Apr 14, 1994 Reported: Apr 18, 1994

LABORATORY ANALYSIS FOR:

Lead

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Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
404-0134	Effluent	0.020	0.033
404-0135	MW-101	0.020	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Karen L. Enstrom Project Manager



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(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

enie 2011 – Verstaansk **Environmental Audit** 1000-A Ortega Way Placentia, CA 92670

1233/Montgomery Ward, Dublin Client Project ID:

Matrix: Liquid

Attention: Frank Muramoto

QC Sample Group: 4040123-135 madelemen melekne di suenta etal etale a empadelemen dan kenden kanen dan kendekan dan kendelemen kanal bakal b

Reported:

Apr 18, 1994.

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	Lead	
			Benzene			
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 200.7	
Analyst:	J.F., A.T.	J.F., A.T.	J.F., A.T.	J.F., A.T.	K.A.	
MS/MSD						
Batch#:	4040134	4040134	4040134	4040134	4040123	
Date Prepared:	4/13/94	4/13/94	4/13/94	4/13/94	4/12/94	
Date Analyzed:	4/13/94	4/13/94	4/13/94	4/13/94	4/14/94	
nstrument i.D.#:	HP-2	HP-2	HP-2	HP-2	Liberty 100	
Conc. Spiked:	20 μg/L	20 μg/L	$20\mu\mathrm{g/L}$	60 μg/L	1.0 mg/L	
Matrix Spike						
% Recovery:	110	105	105	105	87	
Matrix Spike						
Duplicate %						
Recovery:	105	105	105	105	86	
Relative %						
Difference:	4.7	0.0	0.0	0.0	1.2	

LCS Batch#:	1LCS041394	1LCS041394	1LCS041394	1LCS041394	BLK041294			
Date Prepared:	4/13/94	4/13/94	4/13/94	4/13/94	4/12/94			
Date Analyzed:	4/13/94	4/13/94	4/13/94	4/13/94	4/14/94			
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Liberty 100			
LCS %								
Recovery:	100	99	99	101	91			
% Recovery Control Limits:	71-133	72-128	72-130	71-120	75-125	<u> </u>		

SEQUOIA <u>anal</u>ytical, #1271

Caren L. Enstrom Project Manager

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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