THIRD QUARTER 2003 GROUNDWATER MONITORING REPORT

Sierra Pacific Industries Arcata Division Sawmill 2593 New Navy Base Road Arcata, California

November 3, 2003



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consulting scientists and engineers

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Prepared For:

SIERRA PACIFIC INDUSTRIES

Prepared By:

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MFG Project No. 030229.2

PROFESSIONAL CERTIFICATION

This report has been prepared by MFG, Inc. and Geomatrix Consultants, Inc. under the professional supervision of Edward P. Conti. The findings, recommendations, specifications and/or professional opinions presented in this report have been prepared in accordance with generally accepted professional hydrogeologic practice, and within the scope of the project. There is no other warranty, either express or implied.

HOROGEOLOGIST SELF 8

November 3, 2003

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1.0 INTRODUCTION

This report presents the methods and results of the third quarter 2003 groundwater monitoring event performed at the Sierra Pacific Industries (SPI) Arcata Division Sawmill. The Arcata Division Sawmill is located at 2593 New Navy Base Road in Arcata, California (the Site). The Site location is shown in Figure 1. A Site plan is shown in Figure 2. This report was prepared by MFG, Inc. and Geomatrix Consultants, Inc. on behalf of SPI.

The third quarter groundwater monitoring event consisted of measuring the depth to water in 19 monitoring wells at the Site and in the Mad River Slough, and collecting groundwater samples from 19 monitoring wells at the Site.

This report is organized as described below. Background information is provided in Section 2.0. Water level measurements and an evaluation of the lateral hydraulic gradient are included in Section 3.0. Groundwater sampling methods and chemical analysis methods and results are presented in Section 4.0. The disposal of wastewater is discussed in Section 5.0. The monitoring schedule is presented in Section 6.0, and references cited in this report are listed in Section 7.0.

2.0 BACKGROUND

The Site is located on the Samoa Peninsula in Arcata, Humboldt County, California (Figure 1). The Site was originally undeveloped land, consisting of sand dunes and mud flats, until approximately 1950 when SPI converted the land into a lumber mill. During conversion, SPI filled in portions of the Site. SPI began operations at this facility before the area was completely filled in. The mill has been active from approximately 1950 to present day.

In the early to mid-1960s, the mill started using anti-stain products that contained pentachlorophenol (PCP) and tetrachlorophenol (TCP) on a small amount of milled lumber (Environet, 2003). Historical records indicate that the anti-stain solution was stored in a dip tank that was located at the former green chain (Environet, 2003) and in an above ground storage tank located near the former green chain. The former green chain was located to the south of the current sorter building and immediately west of the current sawmill building (Figure 2). The use of anti-stain solutions containing PCP and TCP was discontinued in September 1987 (MFG, 2003b). The area of the former green chain is currently covered with concrete or asphalt and various equipment used to move lumber and lumber cutting by-products.

The subsurface lithology and hydrogeology at the Site was previously investigated and described by Environet Consulting (Environet, 2003). The subsurface lithology consists primarily of fine- to medium-grained sand of apparent sand dune origin to a depth of approximately 22 feet below ground level (bgl), the maximum depth explored. The sand is sporadically interbedded with thin lenses of "Bay Mud," consisting of a mixture of sand and silt (Environet, 2003).

Nineteen groundwater monitoring wells have been installed at the Site. Monitoring well construction details are included in Table 1.

In the eastern portion of the Site, groundwater has been measured in the existing monitoring wells at depths ranging from approximately 1 to 5 feet bgl and the groundwater flow direction is generally to the east, toward the Mad River Slough (Figure 2) (Environet, 2003). In the southwestern portion of the Site, groundwater was measured at a depth of approximately 2 feet bgl in a temporary monitoring well that was installed in April 2003 in the vicinity of the Truck Shop (MFG, 2003c). Based on the proximity of the Truck Shop to Humboldt Bay, the groundwater flow direction in this area is likely to the south-southeast, toward Humboldt Bay.

3.0 EVALUATION OF LATERAL HYDRAULIC GRADIENT

3.1 Water Level Measurements

MFG measured the depth to water in all 19 monitoring wells and at the Mad River Slough measuring point on August 27, 2003 using an electronic water level probe. The depth to water measurements for August 27, 2003 are included in Table 2. The depth to water in the monitoring wells ranged from approximately 0.55 to 5.71 feet below the top of casing measuring points.

The depth to water in the tidally influenced Mad River Slough was measured from a surveyed measuring point on the railroad bridge adjacent to the Site. The water in the slough was measured at approximately 16.2 feet below the measuring point on the railroad bridge before the monitoring wells were measured and approximately 12.6 feet below the measuring point on the railroad bridge after the monitoring wells were measured (Table 2).

3.2 Lateral Hydraulic Gradient

Water level elevations were calculated using the depth-to-water measurements and the measuring point elevations of the wells. On August 27, 2003, the calculated water level elevations in the monitoring wells ranged from approximately 4.4 to 9.8 feet above the North American Vertical Datum of 1988 (NAVD 88) (Table 2). The water level elevations in the Mad River Slough were approximately 0.5 feet below the NAVD 88 and 3.1 feet above the NAVD 88 during the water level measurement activities on August 27, 2003.

The water level elevations from August 27, 2003 were plotted and contoured on a Site plan to interpret the potentiometric surface for shallow and deep groundwater. The interpreted potentiometric surface for shallow groundwater is shown on Figure 3. The potentiometric surface contours for shallow groundwater indicate that the lateral hydraulic gradient direction was generally to the southeast, east and northeast with a magnitude ranging from approximately 0.005 foot/foot near the sorter to approximately 0.02 foot/foot in the sawmill area. A groundwater depression exists in the vicinity of well MW-2 that is consistent with previous monitoring events (Environet, 2002, MFG, 2003a and MFG, 2003d). The interpreted potentiometric surface for deep groundwater is shown on Figure 4. The potentiometric surface

contours for deep groundwater indicate that the lateral hydraulic gradient direction was to the east-southeast and east-northeast with a magnitude of approximately 0.008 foot/foot.

4.0 GROUNDWATER SAMPLING AND ANALYSIS

4.1 Field Methods

On August 27, 2003, monitoring wells MW-1 through MW-19D were purged and sampled. Each monitoring well was purged using a dedicated, disposable Teflon[®] bailer to remove standing water in the well casing. The temperature, pH and specific conductance of the water were monitored during purging and were recorded in the field. Purging was complete when the field-measured parameters were relatively stable and at least three casing volumes of water had been removed from each well. Copies of the groundwater sampling record field forms are included in Appendix A.

After purging, the groundwater in each well was allowed to recover to at least 80 percent of the initial water column height before sampling, except for monitoring well MW-14, which only recovered to approximately 38 percent two and a half hours after purging. Groundwater samples were collected from the 19 monitoring wells using the dedicated, disposable Teflon® bailers. The initial bailer volume of water collected from each well during sampling was used to measure the temperature, pH, and specific conductance of the groundwater samples, except for well MW-14, where the final purge volume was used. Total dissolved solids (TDS) was also field-measured and recorded for each monitoring well at the time of sampling. The field parameters measured for the samples are provided in Table 3.

Groundwater samples collected from each monitoring well were placed in two 125-milliliter (ml) glass vials sealed with Teflon[®]-lined screw caps and a 1-quart plastic bottle sealed with a plastic screw cap. After filling, the vials and bottles were labeled and placed in an ice-cooled, insulated chest for transport to the laboratory for analysis. Chain-of-custody records were completed for the samples and accompanied the samples until received by the laboratory. Copies of the chain-of-custody records for the groundwater samples are included in Appendix B.

A duplicate groundwater sample, identified as MW-A, was collected from monitoring well MW-7. This sample was placed in two additional 125-ml glass vials sealed with a Teflon[®]-lined screw caps.

All non-disposable equipment used to measure water levels was washed in a solution of Liquinox[®] detergent and distilled water and rinsed three times with distilled water before each use. Water generated during groundwater sampling and equipment decontamination is temporarily stored at the Site in three labeled, Department of Transportation (DOT)-approved, 55-gallon drums pending disposal (Section 5.0).

4.2 Chemical Analysis Methods and Results

Groundwater samples collected from the monitoring wells were analyzed by Alpha Analytical Laboratories Inc. of Ukiah, California, a laboratory certified by the California Department of Health Services (DHS). The groundwater samples were analyzed for total dissolved solids (TDS) using EPA Method 160.1 and chlorinated phenols using the Canadian Pulp Method.

The chemical analysis results of the groundwater samples are summarized in Table 3 for TDS and Table 4 for chlorinated phenols. Copies of the laboratory report and chain-of-custody records are included in Appendix B.

The TDS of the groundwater samples analyzed by the laboratory ranged from 340 to 3,000 milligrams per liter (mg/L).

Chlorinated phenols were detected only in the groundwater sample from shallow monitoring well MW-7. The following analytes were detected in the groundwater sample from monitoring well MW-7 (sample MW-7 and duplicate sample MW-A, respectively): pentachlorophenol (PCP) at concentrations of 31,000 and 18,000 micrograms per liter (μ g/L); 2,3,5,6-tetrachlorophenol (TCP) at concentrations of 41 and 28 μ g/L; 2,3,4,6-TCP at concentrations of 710 and 450 μ g/L; and 2,3,4,5-TCP at concentrations of 39 and 26 μ g/L (Table 4).

Chlorinated phenols were not detected in any of the deep groundwater monitoring wells.

An interpreted isoconcentration contour map of dissolved PCP in shallow groundwater is presented in Figure 5. A map showing the distribution of dissolved PCP in deep groundwater (all sample results were "not detected") is presented in Figure 6.

The relative percent differences (RPDs) for the chlorinated phenols detected in the duplicate sample pair from monitoring well MW-7 (samples MW-7 and MW-A) during this sampling event were 53 percent for PCP, 38 percent for 2,3,5,6-TCP, 45 percent for 2,3,4,6-TCP, and 40 percent for 2,3,4,5-TCP. To assess the reasons for this difference, we contacted the lab, and they indicated that one of the samples had more sediment. Potentially, PCP-containing sediment in the samples may have affected the quantification of PCP and resulted in elevated RPDs.

Chemical analysis results of groundwater samples collected at the Site during previous sampling events are also tabulated in this report and include the following constituents: dioxins and furans (Table 5); total organic carbon (TOC), chemical oxygen demand (COD) and chloride (Table 6); natural attenuation parameters (Table 7); and total metals (Table 8).

5.0 DISPOSAL OF INVESTIGATION-DERIVED WASTE

The purge water and equipment wash water generated during the third quarter 2003 groundwater sampling event are being stored temporarily at the Site in three steel, 55-gallon drums (Section 4.1). The drums will be disposed of by SPI in accordance with applicable regulations.

The first and second quarter 2003 groundwater sampling events generated a total of three 55-gallon drums of purge water and wash water. The three 55-gallon drums of wastewater were removed from the Site on September 12, 2003 by Asbury Environmental Services and transported to Demenno/Kerdoon in Compton, California for treatment. Following treatment, the water is discharged to the Los Angeles Sanitation District. A copy of the Uniform Hazardous Waste Manifest for this shipment, which also included two additional 55-gallon drums associated with other investigations at the Site, is included in Appendix C.

6.0 MONITORING SCHEDULE

The fourth quarter 2003 groundwater monitoring event will be conducted in November 2003. This groundwater monitoring event will consist of the following activities:

- Depth to groundwater will be measured in all 19 groundwater monitoring wells;
- Water levels will be measured at the Mad River Slough measuring point before and after the monitoring well measurements; and
- Groundwater samples will be collected from all 19 monitoring wells and analyzed for chlorinated phenols using the Canadian Pulp Method and total dissolved solids (TDS) using EPA Method 160.1.

The methods and results of the sampling event will be presented in a groundwater monitoring report. The report will include: a summary of the activities performed; a discussion of the methods and results; tables consisting of groundwater elevation and laboratory chemical analysis data; maps showing the locations of monitoring wells and the interpreted lateral hydraulic gradient of the shallow and deep groundwater; maps showing isoconcentration contours of PCP, if detected, in shallow and deep groundwater; and copies of field groundwater sampling records, laboratory analytical reports, and sample chain of-custody records.

7.0 REFERENCES

- Environet Consulting (Environet), 2002. Results of the 3rd Quarter 2002 Groundwater Monitoring and Sampling Event for Sierra Pacific Industries Arcata Division Sawmills, Arcata, California: November 25.
- Environet Consulting (Environet), 2003. Results of the Remedial Investigation for Sierra Pacific Industries Arcata Division Sawmills, Arcata, California: January 30.
- MFG, Inc., 2003a. First Quarter 2003 Groundwater Monitoring Report, Sierra Pacific Industries, Arcata Division Sawmill, 2593 New Navy Base Road, Arcata, California: June 9.
- MFG, Inc., 2003b. Interim Remedial Measures Report, Sierra Pacific Industries, Arcata Division Sawmill, 2593 New Navy Base Road, Arcata, California: June 10.
- MFG, Inc., 2003c. Waste Oil Underground Storage Tank Investigation and Closure Report, Sierra Pacific Industries, Arcata Division Sawmill, 2593 New Navy Base Road, Arcata, California: June 10.
- MFG, Inc., 2003d. Second Quarter 2003 Groundwater Monitoring Report, Sierra Pacific Industries, Arcata Division Sawmill, 2593 New Navy Base Road, Arcata, California: August 7.

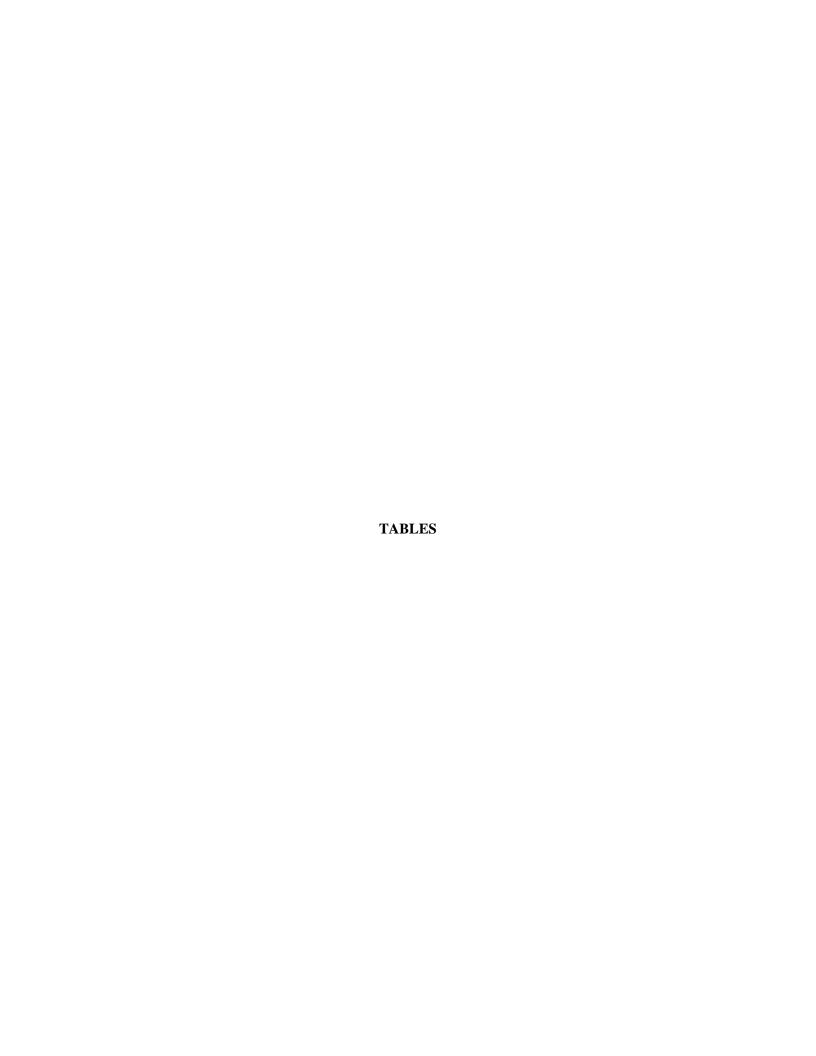


TABLE 1

MONITORING WELL CONSTRUCTION DETAILS 1

WELL NO.	DATE INSTALLED	TOTAL BORING DEPTH (ft bgl)	TOTAL WELL DEPTH (ft bgl)	WELL DIAMETER (inches)	SCREENED INTERVAL (ft bgl)	SCREEN SLOT SIZE (inches)	FILTER PACK INTERVAL (ft bgl)	BENTONITE SEAL INTERVAL (ft bgl)	SURFACE SEAL INTERVAL ² (ft bgl)
MW-1	5-Mar-02	8.0	8.0	2	2.0 - 8.0	0.010	1.5 - 8.0	1.0 - 1.5	0 – 1.0
MW-2	5-Mar-02	9.0	8.0	2	2.0 - 8.0	0.010	1.5 - 9.0	1.0 - 1.5	0 - 1.0
MW-3	5-Mar-02	8.5	8.0	2	2.0 - 8.0	0.010	1.5 - 8.5	1.0 - 1.5	0 - 1.0
MW-4	5-Mar-02	8.0	8.0	2	2.0 - 8.0	0.010	1.5 - 8.0	1.0 - 1.5	0 - 1.0
MW-5	7-Mar-02	8.0	8.0	2	2.0 - 8.0	0.010	1.5 - 8.0	1.0 - 1.5	0 - 1.0
MW-6	7-Mar-02	8.0	8.0	2	2.0 - 8.0	0.010	1.5 - 8.0	1.0 - 1.5	0 - 1.0
MW-7	7-Mar-02	8.0	8.0	2	2.0 - 8.0	0.010	1.5 - 8.0	1.0 - 1.5	0 - 1.0
MW-8	8-Mar-02	8.0	8.0	2	2.0 - 8.0	0.010	1.5 - 8.0	1.0 - 1.5	0 - 1.0
MW-9	8-Mar-02	8.0	8.0	2	2.0 - 8.0	0.010	1.5 - 8.0	1.0 - 1.5	0 - 1.0
MW-10	11-Nov-02	9.5	8.0	2	2.0 - 8.0	0.010	1.5 - 9.5	1.0 - 1.5	0 - 1.0
MW-11	12-Nov-02	8.5	8.0	2	2.0 - 8.0	0.010	1.5 - 8.5	1.0 - 1.5	0 - 1.0
MW-12	12-Nov-02	9.5	8.0	2	2.0 - 8.0	0.010	1.5 - 9.5	1.0 - 1.5	0 - 1.0
MW-13D	12-Nov-02	21.0	20.0	2	15.0 - 20.0	0.010	13.5 - 21.0	12.0 - 13.5	0 - 12.0
MW-14	13-Nov-02	8.0	8.0	2	2.0 - 8.0	0.010	1.5 - 8.0	1.0 - 1.5	0 - 1.0
MW-15D	13-Nov-02	21.0	20.0	2	15.0 - 20.0	0.010	14.0 - 21.0	12.0 - 14.0	0 - 12.0
MW-16D	14-Nov-02	21.5	20.0	2	15.0 - 20.0	0.010	14.0 - 21.5	12.0 - 14.0	0 - 12.0
MW-17	14-Nov-02	9.0	8.0	2	2.0 - 8.0	0.010	1.5 - 9.0	1.0 - 1.5	0 - 1.0
MW-18	13-Nov-02	9.5	8.0	4	2.0 - 8.0	0.010	1.5 - 9.5	1.0 - 1.5	0 - 1.0
MW-19D	14-Nov-02	21.5	20.0	2	15.0 - 20.0	0.010	14.0 - 21.0	12.0 - 14.0	0 - 12.0

NOTES:

ft bgl Feet below ground level.

Construction details for wells MW-1 through MW-9 were obtained from Report on Recent Hydrogeologic Investigations at Sierra-Pacific Industries, Arcata Division Sawmill, dated April 19, 2002 prepared by Environet Consulting. Construction details for wells MW-10 through MW-19D were obtained from Results of the Remedial Investigation for Sierra Pacific Industries – Arcata Division Sawmills, Arcata, California, dated January 30, 2003, prepared by Environet Consulting.

² Surface seal interval includes the concrete surface seal and neat cement sanitary seal.

TABLE 2
SUMMARY OF WATER LEVEL MEASUREMENTS

	MEASUREMENT ¹	MP ELEVATION ²	DEPTH TO WATER	WATER LEVEL ELEVATION
WELL NO.	DATE	(ft NAVD 88)	(ft bMP)	(ft NAVD 88)
MW-1	14-Mar-02	9.56	5.31	4.25
	18-Jul-02	9.56	4.52	5.04
	16-Sep-02	9.56	4.37	5.19
	02-Dec-02	9.56	4.18	5.38
	18-Mar-03	9.56	4.09	5.47
	31-Mar-03	9.56	4.48	5.08
	21-May-03	9.56	4.66	4.90
	27-Aug-03	9.56	4.55	5.01
MW-2	14-Mar-02	9.49	4.52	4.97
	18-Jul-02	9.49	5.43	4.06
	16-Sep-02	9.49	5.28	4.21
	02-Dec-02	9.49	5.17	4.32
	18-Mar-03	9.49	5.16	4.33
	31-Mar-03	9.49	5.43	4.06
	21-May-03	9.49	5.45	4.04
	27-Aug-03	9.49	5.09	4.40
MW-3	14-Mar-02	11.14	2.19	8.95
	18-Jul-02	11.14	2.79	8.35
	16-Sep-02	11.14	2.96	8.18
	02-Dec-02	11.14	2.75	8.39
	18-Mar-03	11.14	2.30	8.84
	31-Mar-03	11.14	1.96	9.18
	21-May-03	11.14	2.19	8.95
	27-Aug-03	11.14	2.08	9.06
MW-4	14-Mar-02	10.71	1.52	9.19
	18-Jul-02	10.71	1.84	8.87
	16-Sep-02	10.71	2.04	8.67
	02-Dec-02	10.71	1.80	8.91
	18-Mar-03	10.71	1.52	9.19
	31-Mar-03	10.71	0.93	9.78
	21-May-03	10.71	1.18	9.53
	27-Aug-03	10.71	1.36	9.35

TABLE 2
SUMMARY OF WATER LEVEL MEASUREMENTS

WELL NO.	MEASUREMENT ¹ DATE	MP ELEVATION ² (ft NAVD 88)	DEPTH TO WATER (ft bMP)	WATER LEVEL ELEVATION (ft NAVD 88)
MW-5	14-Mar-02	10.69	0.95	9.74
IVI VV -3	18-Jul-02	10.69	1.26	9.43
	16-Sep-02	10.69	1.35	9.34
	02-Dec-02	10.69	1.23	9.46
	18-Mar-03	10.69	0.87	9.82
	31-Mar-03	10.69	0.63	10.06
	21-May-03	10.69	0.69	10.00
	27-Aug-03	10.69	0.84	9.85
	27 Hug 03	10.07	0.01	7.03
MW-6	14-Mar-02	9.77	0.85	8.92
	18-Jul-02	9.77	1.27	8.50
	16-Sep-02	9.77	1.51	8.26
	02-Dec-02	9.77	1.30	8.47
	18-Mar-03	9.77	0.89	8.88
	31-Mar-03	9.77	0.37	9.40
	21-May-03	9.77	0.60	9.17
	27-Aug-03	9.77	0.70	9.07
MW-7	14-Mar-02	9.68	0.73	8.95
	18-Jul-02	9.68	1.15	8.53
	16-Sep-02	9.68	1.37	8.31
	02-Dec-02	9.68	1.19	8.49
	18-Mar-03	9.68	0.75	8.93
	31-Mar-03	9.68	0.26	9.42
	21-May-03	9.68	0.45	9.23
	27-Aug-03	9.68	0.61	9.07
MW-8	14-Mar-02	10.30	0.92	9.38
	18-Jul-02	10.30	1.24	9.06
	16-Sep-02	10.30	1.52	8.78
	02-Dec-02	10.30	1.34	8.96
	18-Mar-03	10.30	0.95	9.35
	31-Mar-03	10.30	0.29	10.01
	21-May-03	10.30	0.49	9.81
	27-Aug-03	10.30	0.91	9.39
MW-9	14-Mar-02	9.86	0.71	9.15
	18-Jul-02	9.86	1.13	8.73
	16-Sep-02	9.86	1.40	8.46
	02-Dec-02	9.86	1.18	8.68
	18-Mar-03	9.86	0.79	9.07
	31-Mar-03	9.86	0.11	9.75
	21-May-03	9.86	0.30	9.56
	27-Aug-03	9.86	0.81	9.05

TABLE 2
SUMMARY OF WATER LEVEL MEASUREMENTS

WELL NO.	MEASUREMENT ¹ DATE	MP ELEVATION ² (ft NAVD 88)	DEPTH TO WATER (ft bMP)	WATER LEVEL ELEVATION (ft NAVD 88)
MW-10	02-Dec-02	9.80	1.35	8.45
	18-Mar-03	9.80	0.95	8.85
	31-Mar-03	9.80	0.30	9.50
	21-May-03	9.80	0.52	9.28
	27-Aug-03	9.80	1.02	8.78
MW-11	02-Dec-02	10.26	1.55	8.71
	18-Mar-03	10.26	1.12	9.14
	31-Mar-03	10.26	0.40	9.86
	21-May-03	10.26	0.64	9.62
	27-Aug-03	10.26	1.19	9.07
MW-12	02-Dec-02	10.73	1.56	9.17
	18-Mar-03	10.73	1.15	9.58
	31-Mar-03	10.73	0.55	10.18
	21-May-03	10.73	0.70	10.03
	27-Aug-03	10.73	1.12	9.61
MW-13D	02-Dec-02	9.84	4.18	5.66
	18-Mar-03	9.84	4.21	5.63
	31-Mar-03	9.84	4.26	5.58
	21-May-03	9.84	4.52	5.32
	27-Aug-03	9.84	4.45	5.39
MW-14	02-Dec-02	9.02	2.40	6.62
	18-Mar-03	9.02	2.21	6.81
	31-Mar-03	9.02	1.77	7.25
	21-May-03	9.02	1.69	7.33
	27-Aug-03	9.02	2.27	6.75
MW-15D	02-Dec-02	11.08	5.31	5.77
	18-Mar-03	11.08	5.44	5.64
	31-Mar-03	11.08	5.46	5.62
	21-May-03	11.08	5.74	5.34
	27-Aug-03	11.08	5.71	5.37
MW-16D	02-Dec-02	9.80	3.99	5.81
	18-Mar-03	9.80	4.17	5.63
	31-Mar-03	9.80	3.91	5.89
	21-May-03	9.80	4.11	5.69
	27-Aug-03	9.80	3.95	5.85

TABLE 2 SUMMARY OF WATER LEVEL MEASUREMENTS

WELL NO.	MEASUREMENT ¹ DATE	MP ELEVATION ² (ft NAVD 88)	DEPTH TO WATER (ft bMP)	WATER LEVEL ELEVATION (ft NAVD 88)
MW-17	02-Dec-02	8.98	1.27	7.71
	18-Mar-03	8.98	0.94	8.04
	31-Mar-03	8.98	0.32	8.66
	21-May-03	8.98	0.58	8.40
	27-Aug-03	8.98	1.06	7.92
MW-18	02-Dec-02	9.53	0.94	8.59
	18-Mar-03	9.53	0.52	9.01
	31-Mar-03 ³	9.53		
	21-May-03	9.53	0.05	9.48
	27-Aug-03	9.53	0.55	8.98
MW-19D	02-Dec-02	11.00	4.31	6.69
	18-Mar-03	11.00	4.23	6.77
	31-Mar-03	11.00	4.02	6.98
	21-May-03	11.00	4.22	6.78
	27-Aug-03	11.00	4.26	6.74
SLOUGH	31-Mar-03	15.70	15.15	0.55
	31-Mar-03	15.70	15.84	-0.14
	21-May-03	15.70	17.23	-1.53
	21-May-03	15.70	16.75	-1.05
	27-Aug-03	15.70	16.20	-0.50
	27-Aug-03	15.70	12.60	3.10

Feet above North American Vertical Datum of 1988.
Feet below measuring point.
Not measured.
Mad River Slough measuring point on railroad bridge. Water level measurements are obtained before and after the water level measurements in the monitoring wells.
Data prior to March 18, 2003 were obtained from <i>Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California</i> , dated January 30, 2003, prepared by Environet Consulting.
Monitoring wells MW-10 through MW-19D were surveyed by Omsberg & Company on January 27, 2003.
Water level was above the top of casing measuring point.

TABLE 3
SUMMARY OF WATER QUALITY PARAMETERS

SPECIFIC

		TEMPERATURE ¹	CONDUCTANCE 1	pH ¹	TDS 1	TDS ²
WELL NO.	DATE SAMPLED	(°C)	(µmohs/cm)	(std. units)	(mg/L)	(mg/L)
MW-1	20-Mar-03	14	2,600	6.5		
	22-May-03	14	2,700	6.7		1,400
	27-Aug-03	18	2,500	6.7	1,800	1,400
MW-2	20-Mar-03	13	2,100	6.2		
	22-May-03	14	1,700	6.4	1,100	860
	27-Aug-03	18	1,500	6.6	1,100	760
MW-3	20-Mar-03	13	1,100	6.4		
	22-May-03	15	1,000	6.4	630	510
	27-Aug-03	20	1,000	6.5	720	470
MW-4	20-Mar-03	14	830	6.5		
	22-May-03	16	730	6.4	440	420
	27-Aug-03	21	730	6.5	500	340
MW-5	20-Mar-03	14	670	6.6		
	22-May-03	14	690	6.6	410	360
	27-Aug-03	18	670	6.7	450	360
MW-6	20-Mar-03	11	950	6.6		
	22-May-03	14	1,000	6.3	620	430
	27-Aug-03	17	890	6.4	620	410
MW-7	20-Mar-03	11	910	6.6		
	22-May-03	11	960	6.5		460
	27-Aug-03	14	840	6.6	580	400
MW-8	18-Mar-03	14	730	6.4		
	21-May-03	16	740	6.3	460	390
	27-Aug-03	21	730	6.2	500	370
MW-9	18-Mar-03	14	820	6.4		
	23-May-03	16	870	6.6	550	400
	27-Aug-03	20	830	6.2	570	350
MW-10	18-Mar-03	14	920	6.4		
	23-May-03	17	970	6.7		460
	27-Aug-03	22	860	6.3	600	400
MW-11	20-Mar-03	14	870	6.4		
	21-May-03	17	890	6.4	560	460
	27-Aug-03	23	870	6.2	600	440

TABLE 3
SUMMARY OF WATER QUALITY PARAMETERS

SPECIFIC

		TEMPERATURE ¹	CONDUCTANCE 1	pH ¹	$TDS^{\ 1}$	TDS ²
WELL NO.	DATE SAMPLED	(°C)	(µmohs/cm)	(std. units)	(mg/L)	(mg/L)
MW-12	18-Mar-03	15	830	6.3		
	21-May-03	18	840	6.1		460
	27-Aug-03	23	870	6.2	600	480
MW-13D	20-Mar-03	14	1,200	6.2		
	22-May-03	14	1,100	6.2		
	27-Aug-03	15	1,100	6.1	750	690
MW-14	20-Mar-03	14	3,200	6.7		
	22-May-03	15	3,400	6.6		2,100
	27-Aug-03 ³	20	3,600	6.6	2,300	1,900
MW-15D	20-Mar-03	13	1,300	6.8		
	22-May-03	13	1,300	6.8		800
	27-Aug-03	14	1,300	6.3	900	810
MW-16D	18-Mar-03	14	5,200	7.7		
	23-May-03	14	5,200	7.6		3,200
	27-Aug-03	16	5,000	7.4	3,400	3,000
MW-17	20-Mar-03	13	980	6.4		
	22-May-03	15	1,000	6.5		450
	27-Aug-03	19	860	7.0	600	420
MW-18	18-Mar-03	14	1,000	6.5		
	23-May-03	17	980	6.6	610	640
	27-Aug-03	23	1,100	6.3	780	520
MW-19D	20-Mar-03	16	810	6.7		
	22-May-03	16	860	6.6	520	480
	27-Aug-03	17	810	6.5	560	410

NOTES:

°C Degrees Celsius.

μmhos/cm Micromhos per centimeter at 25 °C.

mg/L Milligrams per liter.

-- Not analyzed.

TDS Total dissolved solids.

- 1. Field-measured parameter.
- 2. Laboratory analysis using EPA Method 160.1.
- 3. Measurements obtained from final purge volume.

TABLE 4 SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM MONITORING WELLS FOR CHLORINATED PHENOLS

> 2,4,6-TRI-CHLORO-

			CHLORO-			
	DATE	PCP	PHENOL	2,3,5,6-TCP	2,3,4,6-TCP	2,3,4,5-TCP
WELL NO.	SAMPLED 1	$(\mu g/L)$	(µg/L)	$(\mu g/L)$	$(\mu g/L)$	(µg/L)
MW-1	14-Mar-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	18-Jul-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	16-Sep-02	1.8	< 1.0	< 1.0	< 1.0	< 1.0
	03-Oct-02 ²	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	02-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-2	14-Mar-02	7.4	< 1.0	< 1.0	< 1.0	< 1.0
	18-Jul-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	16-Sep-02	2.5	< 1.0	< 1.0	< 1.0	< 1.0
	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-3	14-Mar-02	1.2	< 1.0	< 1.0	< 1.0	< 1.0
	18-Jul-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	16-Sep-02	5.0	< 1.0	< 1.0	< 1.0	< 1.0
	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-4	14-Mar-02	8.6	< 1.0	< 1.0	< 1.0	< 1.0
	18-Jul-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	16-Sep-02	5.7	< 1.0	< 1.0	< 1.0	< 1.0
	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-5	14-Mar-02	4.3	< 1.0	< 1.0	< 1.0	< 1.0
	18-Jul-02	9.1	< 1.0	< 1.0	< 1.0	< 1.0
	16-Sep-02	25	< 1.0	< 1.0	< 1.0	< 1.0
	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03 ³	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

TABLE 4 SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM MONITORING WELLS FOR CHLORINATED PHENOLS

> 2,4,6-TRI-CHLORO-

			CHLORO-			
	DATE	PCP	PHENOL	2,3,5,6-TCP	2,3,4,6-TCP	2,3,4,5-TCF
WELL NO.	SAMPLED 1	$(\mu g/L)$				
MW-6	14-Mar-02	4.5	< 1.0	< 1.0	< 1.0	< 1.0
	18-Jul-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	16-Sep-02	6.3	< 1.0	< 1.0	< 1.0	< 1.0
	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-7	14-Mar-02	31,000	< 1.0	41	650	24
	18-Jul-02	33,000	< 1.0	< 1.0	990	56
	16-Sep-02	44,000	< 1.0	< 1.0	920	64
	03-Dec-02	46,000	< 1.3	76	1,300	52
	14-Jan-03 ⁴	51,000	2.4	< 1.0	970	52
	20-Mar-03	19,000	< 1.0	36	460	22
	22-May-03	19,000	< 1.0	< 1.0	470	< 100
	22-May-03 ³	16,000	< 1.0	< 1.0	400	< 100
	22-May-03 ⁵	14,000	< 1.0	< 1.0	400	< 100
	27-Aug-03	31,000	< 1.5	41	710	39
	27-Aug-03 ³	18,000	< 1.0	28	450	26
MW-8	14-Mar-02	22	< 1.0	< 1.0	< 1.0	< 1.0
	18-Jul-02	31	< 1.0	< 1.0	< 1.0	< 1.0
	16-Sep-02	4.8	< 1.0	< 1.0	< 1.0	< 1.0
	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	18-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	21-May-03	1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9	14-Mar-02	94	3.1	21	130	5.5
	18-Jul-02	2.1	< 1.0	< 1.0	< 1.0	< 1.0
	16-Sep-02	3.1	< 1.0	< 1.0	< 1.0	< 1.0
	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	18-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	23-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-10	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	18-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	23-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

TABLE 4 SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM MONITORING WELLS FOR CHLORINATED PHENOLS

> 2,4,6-TRI-CHLORO-

	DATE	PCP	CHLORO- PHENOL	2,3,5,6-TCP	2,3,4,6-TCP	2,3,4,5-TCP
WELL NO.	SAMPLED ¹	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-11	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	21-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-12	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	18-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	21-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-13D	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-14	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-15D	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-16D	03-Dec-02	1.3	< 1.0	< 1.0	< 1.0	< 1.0
	18-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	23-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-17	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-18	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	18-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	23-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

TABLE 4

SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM MONITORING WELLS FOR CHLORINATED PHENOLS

Sierra Pacific Industries Arcata Division Sawmill Arcata, California

2,4,6-TRI-CHLORO-

				CILORO-				
		DATE	PCP	PHENOL	2,3,5,6-TCP	2,3,4,6-TCP	2,3,4,5-TCP	
_	WELL NO.	SAMPLED 1	$(\mu g/L)$					
	MW-19D	03-Dec-02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
		20-Mar-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
		22-May-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
		27-Aug-03	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

NOTES:

PCP Pentachlorophenol.

TCP Tetrachlorophenol.

 $\mu g/L$ Micrograms per liter.

- < Target analyte was not detected at or above the laboratory reporting limit shown.</p>
- Data prior to March 18, 2003 were obtained from Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California, dated January 30, 2003, prepared by Environet Consulting.
- 2. Confirmation sample collected due to detection of PCP on September 16, 2002.
- Duplicate sample.
- 4. Sample also contained 280 μg/L of 2,3,4-trichlorophenol and 190 μg/L of 2,4,5-trichlorophenol.
- 5. Filtered sample.

Chlorinated phenols were analyzed using the Canadian Pulp Method.

TABLE 5 SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM MONITORING WELL MW-7 FOR DIOXINS AND FURANS

DIOXINS											FURANS											
			1, 2,	1, 2, 3,	1, 2, 3,	1, 2, 3,	1, 2, 3,				1, 2,	2, 3,	1, 2, 3,	1, 2, 3,	2, 3,	1, 2, 3,	1, 2, 3,	1, 2, 3,			•	PERCENT
		2, 3, 7, 8-	3, 7, 8-	4, 7, 8-	6, 7, 8-	7, 8, 9-	4, 6, 7, 8-		TOTAL	2, 3, 7, 8-	3, 7, 8-	4, 7, 8-	4, 7, 8-	6, 7, 8-	4, 6, 7, 8-	7, 8, 9-	4, 6, 7, 8-	4, 7, 8, 9-		TOTAL	TOTAL 2, 3	2, 3, 7, 8-
WELL	DATE	TCDD	PeCDD	HxCDD	HxCDD	HxCDD	HpCDD	OCDD	DIOXINS 1	TCDF	PeCDF	PeCDF	HxCDF	HxCDF	HxCDF	HxCDF	HpCDF	HpCDF	OCDF	FURANS ¹	TEQ	TCDD ⁴
NO.	SAMPLED	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(%)
MW-7	16-Sep-02 ⁵	<3.12	<3.45	< 5.82	< 6.31	< 5.32	32.4	144	194	<3.36	<4.21	<4.59	<2.38	<2.81	< 2.86	< 2.99	6.59	< 6.67	22.2	103.63 J	0.407	0
	22-May-03	<1.62	<4.05	22.6 J	<3.83	< 3.10	30.2	449	550.5 J	<1.26	< 2.04	< 2.02	<1.02	<1.17	<1.19	<1.15	4.97 J	< 0.807	20.7 J	69.14 J	2.66	0
	22-May-03 ⁶	<1.27	< 2.00	7.89 J	<2.47	<1.97	16.3 J	231	281 J	<1.01	<1.66	<1.64	<1.09	<1.28	<1.40	<1.67	2.09 J	<1.19	7.05 J	39.68 J	0.996	0
	TEF ⁷ :	1	1	0.1	0.1	0.1	0.01	0.0001	NA	0.1	0.05	0.5	0.1	0.1	0.1	0.1	0.01	0.01	0.0001	NA	NA	NA

NO	TEC
INO	IES

TCDD Tetrachlorodibenzo-p-dioxin

PeCDD Pentachlorodibenzo-p-dioxin

HxCDD Hexachlorodibenzo-p-dioxin

HpCDD Heptachlorodibenzo-p-dioxin

OCDD Octachlorodibenzo-p-dioxin

Tetrachlorodibenzofuran TCDF

PeCDF Pentachlorodibenzofuran

HxCDF Hexachlorodibenzofuran HpCDF Heptachlorodibenzofuran

OCDF Octachlorodibenzofuran

TEQ Toxicity equivalency.

Picograms per liter. pg/L Not applicable. NA

- Target analyte was not detected at or above the laboratory reporting limit shown.
- Analyte concentration was below the calibration range.
- Toxicity equivalency factor (unitless).
- Total concentration includes target and non-target analytes.
- Calculated by multiplying the congener concentration by its TEF.
- When an analyte concentration was not detected, it was assigned a concentration of 0 pg/L to calculate TEQ. 4. Calculated by dividing the concentration of 2, 3, 7, 8-TCDD by the Total TEQ. When the concentration of 2, 3, 7, 8-TCDD was not detected, it was assigned a concentration of 0 pg/L for this calculation.
- Data were obtained from Results of the 3rd Quarter 2002 Groundwater Monitoring and Sampling Event for Sierra Pacific Industries Arcata Division Sawmills, Arcata, California, dated November 25, 2002, prepared by Environet Consulting.
- Filtered sample.
- World Health Organization, 1997 (WHO-97) adopted from F.X.R. van Leeuwen, 1997.

Dioxins and furans were analyzed using EPA Method 1613.

TABLE 6
SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM MONITORING WELLS FOR TOC, COD AND CHLORIDE

WELL NO.	DATE SAMPLED ¹	TOC (mg/L)	COD (mg/L)	Chloride (mg/L)
MW-1	25-Mar-02	45.7	110	520
	22-May-03			12
MW-2	25-Mar-02	31.1	100	200
MW-3	25-Mar-02	20.0	57	41
MW-4	25-Mar-02	17.1	47	32
MW-5	25-Mar-02	9.04	28	16
MW-6	25-Mar-02	14.6	47	40
MW-7	25-Mar-02	23.2	57	73
MW-8	25-Mar-02	20.1	47	23
MW-9	25-Mar-02	12.3	47	37

NOTES:

Chloride was analyzed using EPA Method 300.0.

TOC Total organic carbon. Analyzed using EPA Method 415.1.

COD Chemical oxygen demand. Analyzed using EPA Method 410.2.

mg/L Milligrams per liter.

Not analyzed.

March 2002 data were obtained from the laboratory report provided in the Report on Recent Hydrogeologic Investigation at Sierra Pacific Industries, Arcata Division Sawmill, 2293 Samoa Road, Arcata, California, dated April 19, 2002, prepared by Environet Consulting.

TABLE 7

SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM MONITORING WELLS FOR NATURAL ATTENUATION PARAMETERS

Sierra Pacific Industries Arcata Division Sawmill Arcata, California

TOTAL	

	DATE	CONDUCTIVITY	ALKALINITY	FREE CO ₂	NO_3^{-1}	SO_4^{-2}	Mn	Fe +2	Ca	Mg	ORP	TSS	TDS	DO^{2}	pН	METHANE
WELL NO.	SAMPLED	(µS/cm)	(mg CaCO ₃ /L)	$(mg CO_2/L)$	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	(mg/L)	(mg/L)	(mg/L)	(std. units)	(mg/L)
MW-3	14-Jan-03 ¹	1,050	420				5.3	32	59	49	130	220	550	9.3	6.38	
MW-7	14-Jan-03 ¹	660	350	280	< 0.50	<2.0	2.9	35	30	50	190	950	560	8.6	6.45	50
NOTES: CO ₂ NO ₃		Free CO ₂ was calculated using EPA Method 300	C	0 ₂ -D.	. μS/cm Microsiemens per centimeter. mg CaCO ₃ /L Milligrams of calcium carbonate per liter.											

 SO_4^{-2} Sulfate. Analyzed using EPA Method 300.0. Mn Manganese. Analyzed using EPA Method 6010. Fe +2 Ferrous iron. Analyzed using EPA Method 3500. Ca Calcium. Analyzed using EPA Method 6010. Mg Magnesium. Analyzed using EPA Method 6010. ORP Oxidation reduction potential. Analyzed using SM 2580. TSS Total suspended solids. Analyzed using SM 2540 D. TDS Total dissolved oxygen. Analyzed using SM 2540 C. DO Dissolved oxygen. Analyzed using SM 4500-O, G.

> Conductivity was analyzed using SM 2510. Total alkalinity was analyzed using SM 2320B pH was analyzed using SM 4500. Methane was analyzed using modified EPA Method 8015.

mg CO₂/L Milligrams of carbon dioxide per liter.

mg/L Milligrams per liter.

mV Millivolts.

-- Not analyzed.

- < Target analyte was not detected at or above the laboratory reporting limit shown
- Data were obtained from Results of the Remedial Investigation for Sierra Pacific Industries Arcata Division Sawmills, Arcata, California, dated January 30, 2003, prepared by Environet Consulting.
- Laboratory measurement.

TABLE 8

SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM MONITORING WELLS FOR TOTAL METALS

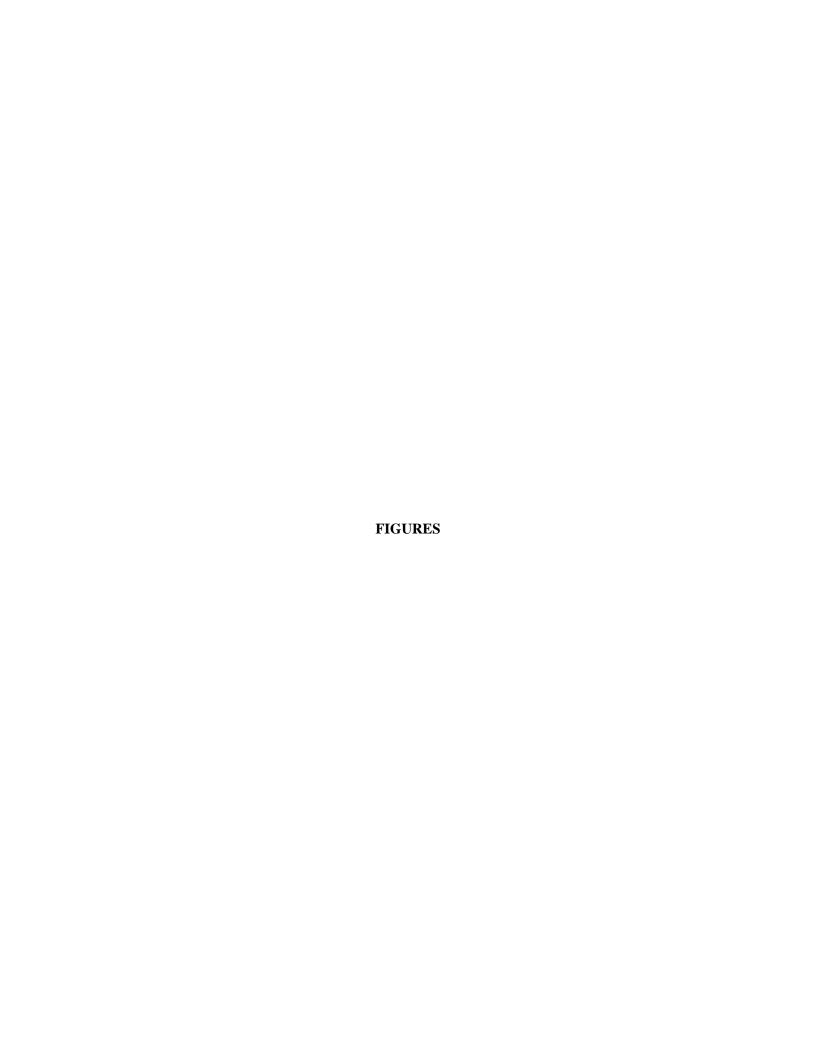
Sierra Pacific Industries Arcata Division Sawmill Arcata, California

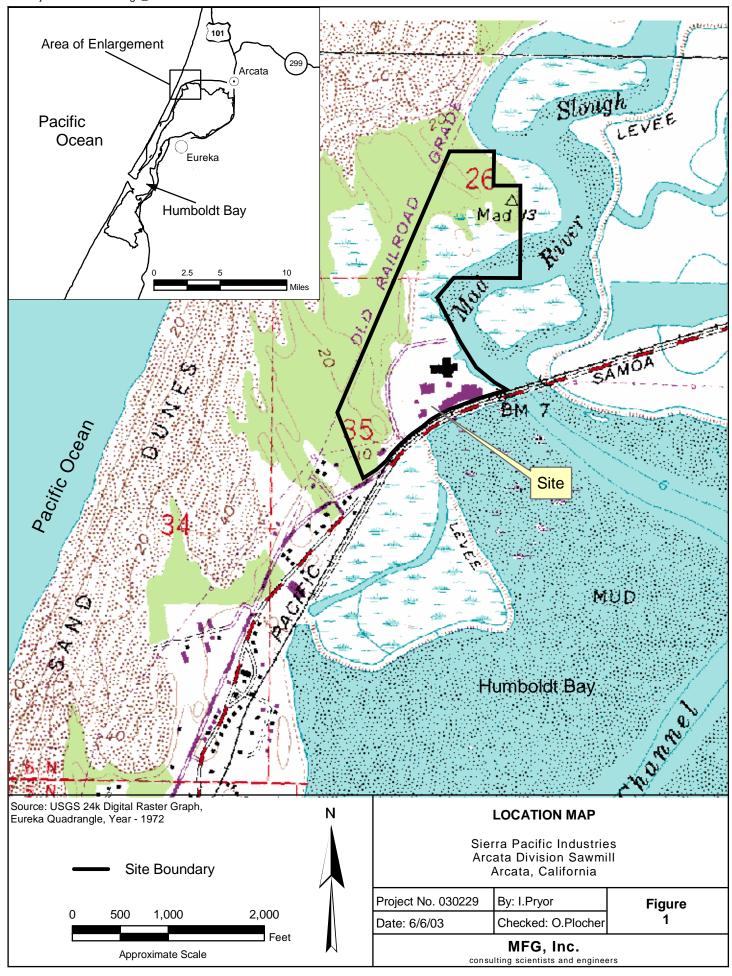
	DATE	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	T1	V	Zn
WELL NO.	SAMPLED 1	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-7	14-Jan-03	< 0.15	< 0.2	< 0.05	< 0.01	< 0.01	< 0.01	< 0.05	< 0.05	< 0.05	< 0.0002	< 0.05	< 0.05	< 0.2	< 0.01	< 0.4	< 0.05	< 0.05
NOTES:				•														
Sb	Antimony			Hg	Mercury													
As	Arsenic			Mo	Molybden	um												
Ba	Barium			Ni	Nickel													
Be	Beryllium			Se	Selenium													
Cd	Cadmium			Ag	Silver													
Cr	Chromium			Tl	Thallium													
Co	Cobalt			V	Vanadium													
Cu	Copper			Zn	Zinc													
Pb	Lead																	
mg/L	Milligrams per	liter.																

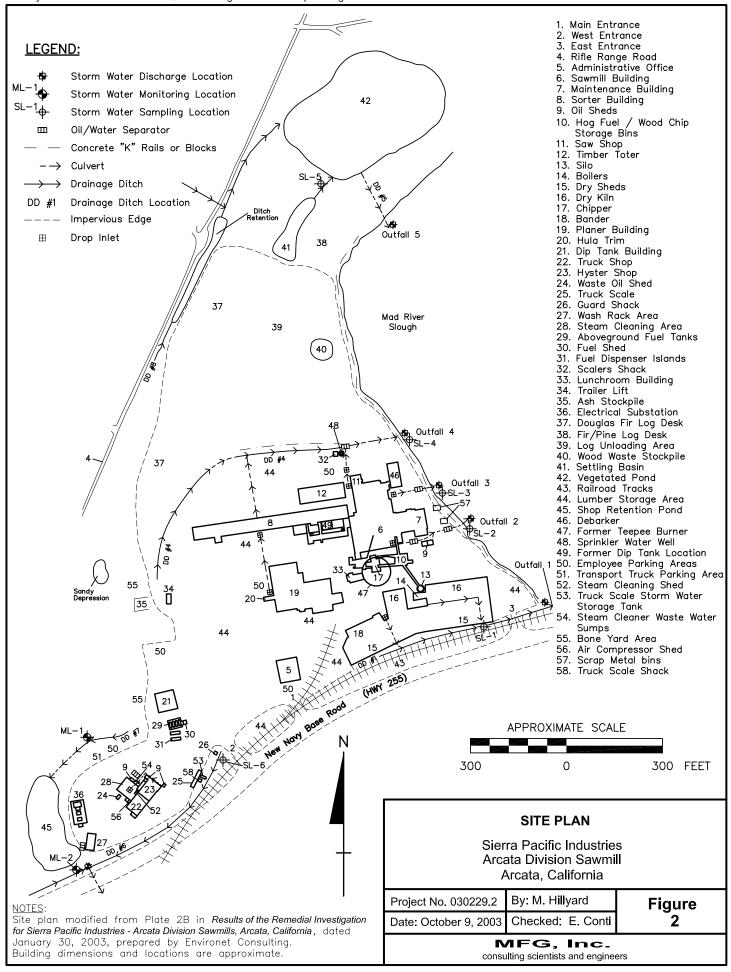
Target analyte was not detected at or above the laboratory reporting limit shown.

Metals were analyzed using EPA Methods 6010 and 7470.

Data were obtained from Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California, dated January 30, 2003, prepared by Environet Consulting.







APPENDIX A

Groundwater Sampling Record Field Forms

GRO	DUND	WATE	R S	AMPI	LING F	RECO	ORD	SAM	PLE NU	IMBER	PAGE: 1 of: 1				
Project	No: 03022	29.2 P	roject Na	me SP	I Arcata S	awmill					Date 8/27/03				
		(well ID, etc.	-				ng Water Le	wal At S	SMD/-	4.5	5 Daily 0/ 1/105				
		tt Hillyard				i	-	•			er Column Height (ft.): 🥕				
	· .	P) of Well:_	0.5	6	•	i					plication Factor: 0.163				
1	-	fLBGL):	7	0-8.0			-				0 3x 1.5 4x				
	-	(fl.BGL):	1	5-8.0	•		Level (fLB				00				
Į.,	Stick-Up/Do					•	Depth (ft. B								
QUA	LITY AS	SSURAN	ICE		- · · · · · · · · · · · · · · · · · · ·			· 	•		• -				
	DS (describ										*				
											rinse w/ distilled water.				
_	<u> </u>	<u>Disposab</u>					·Samp	oling:_D	ısposa	ble l'e	flon Bailer				
		arged Water dicate make,			n Drum				· · · · · ·						
	-	virotech L		•	Model 15	60 ~	Thom	nometor	Ultr	amete	er ·				
t e		Ultram						Calibrat		H 4, 7					
	uctivity Met		meter								70 µmhos				
Other	: T)5 h	1409	meser	_		Field	Calibrat	ion: 30	0,15	00 ppm				
SAM	PLING	MEASU	REM							,	•				
Date/	" Control to the Control to Control to														
Time				pH ((µmaos/ Field Temp!	6 25 ° C.	Color	& Sedi		Depth R. BMP)	Hemans				
132	0		189			2410	1+ Yellon	u Clear							
133	l		18.0	6.62		21/20	Sury	Clary	Jy						
(34	15		18.3	6.76		2480	11	ti	-						
135	2.0		18.3	6.73		2480	4	70/2	1840g	2	Sample				
								100-	77	7					
				 											
									· ·						
								<u> </u>							
· 															
			,							·					
SAM	IPLE IN	VENTO	RY	J	······································			·		1					
		AP) Before S		4.8	8 Rec	overy %:	89	s	ample In	ntake D	epth (ft. BMP):				
		Bottles C				Fittratio			·····		Remarks				
Time	Volume			ss, plastic) Quantity	(Y/N)	(tyr)е)	Anai		(quality control sample, other)				
1:36	125mc		stic			N		-		TCP					
1.30	Come/	y in	,,,,,,	<u></u>	- - '	N			TO)					
						 	1								
Choin ~	f-Custody R	osseri Als	41.	199	<u> </u>	·			·						
O WIT-0	Custody H	OM DRODU		<u> </u>			- ···								
[ļ	M	IcCui	ley, f	rick	& Gilman, Inc.				
		W Sample Form	MACACAD	Revised 9-8-9	5	-									

 $(p,\mathbf{w}) = 2(p^{2}+1) + \frac{1}{2}(p^{2}+1) + \frac{1}{2$

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unl	עאטי	WAIE	n 5/	41/11	LING F	IEU(ノベレ	SAM	PLE N	UMBEF	R: MW-2			
-			-		I Arcata S	awmill	· · · · · · ·				Date 8/27/03			
Samplin	g Location	(well ID, etc.)	:_ <u>M\</u>	<u>V-2</u>			ng Water Le							
Sample	d by: <u>Ma</u>	tt Hillyard				Total	Depth (ft. B	MP):	7.60	Wate	er Column Height (ft.): 2, 5/			
Measuri	ing Point (M	P) of Well:_	9.4	9	-						plication Factor 0.163			
Screene	ed Interval (fLBGL):	2.0	0-8.0		Casin	g Volume (gal.): <u> </u>	4	2X:	3x 1, 2 4x			
Filter Pa	ack Interval	(ft.BGL):	1.	5-9.0	<u>·</u>	Water	Level (fLB	MP) at E	end of f	ourge:	5.18			
Casing	Stick-Up/Do	wn (ft.):				Total	Depth (ft. B	MP) at f	End of I	Purge:				
QUA	LITY AS	SSURAN	CE			•	•			,	•			
	DS (describ		نماك حدد		. 11 4111 1		1 6	**	11	, ,				
											inse w/ distilled water.			
•		Disposab erged Water					Samp	oling:	Dist	osabie	Teflon Bailer			
-		arged water dicate make,			ii Diulli									
	•	-		•	Model 15	0	Them	nometer	. Ult	ramete	er ·			
	eter	Ultram	eter		,			Calibrat	`	oH 4, 7				
Condi	uctivity Mete		meter				 -	Calibrat	ion:)70 μmhos			
Other		s ultr			· · · · · · · · · · · · · · · · · · ·		Field	Calibra	ion:	300,	1500ppm			
Date/	Cumul.Vol.		Temp.		Specific Con	ductance		T			Remarks			
Time	(gal)	Rate (gpm)	(°C)		(µmhos/ © Field Temp	0 25 °C.	Color	& Sed			* *************************************			
145	0		18.5	682		1500	der	cle	el.					
146	0.5	•	18.6	6.67	, i	1480	١	17						
147	1.0		18,5	6,62		1500	Poray	Clon	24					
148	1.5		18.5	6.58		1490	Haray	0/00	ady		sample			
						•		705	1054A3		gary e			
			•				·		4/24					
											· · · · · · · · · · · · · · · · · · ·			
								1						
SAM	PIFIN	VENTO	 3Y	L	<u> </u>		!		•	·)				
· · · · · · · · · · · · · · · · · · ·		IP) Before S		5.10	g Rec	overy %;	96	s	ample i	Intake D	epth (ft. BMP):			
		Bottles C	ollected			Filtratio				ulysis	Remarks			
Time	Volume	1		ss, plastic	c) Quantity	(Y/N)	(ty))e)			(quality control sample, other)			
149	Quart	96				N	+			/10P				
100	- www	1 (19	stro			\ \times_	1-	•	1.1.1	الر.ق				
							 							
Chain-o	-Custody R	lecord No	46	190	1									
			E.		***		N	lcCul	ley,	Frick	& Gilman, Inc.			
				Revised 8-8-		1								

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GRC	יםאטי	WATE	R S	AMPL	ING F	RECC	ORD	SAMP	'LE NI	UMBER	PAGE: 1 of: 1 :: MW-3				
Project	No: <u>0</u> 3022	29.2 Pr	oject Na	me: SPI	Arcata S	awmill					Date 8/27/03				
		(well ID, etc.)	_				ng Water Le	ivel fft. P	MP)·	208					
		tt Hillyard				Total	Depth (ft. R	MP): 7	70	Wate	or Column Height (ft.): 5.62				
		iP) of Well:_	1 1	1.14		i					plication Factor: 0.163				
		ft.BGL):	2.	0-8.0							3x 2. 7 4x				
	=	(ft.BGL):	1	5-8.5 ·							2.30				
	Stick-Up/Do						Depth (ft. B								
QUA	LITY AS	SSURAN	ICE						<u>_</u>		-··				
	DS (describ														
											rinse w/ distilled water.				
Purgi	-	<u>Disposab</u>					Samp	$\frac{\mathrm{D}}{\mathrm{D}}$	ispos	able Te	eflon Bailer				
		arged Water			Drum					······································					
	INSTRUMENTS (indicate make, model, i.d.): Water Level: Envirotech LTD, Waterline Model 150 Thermometer: Ultrameter														
	pH Meter: Ultrameter Field Celibration: pH 4, 7, 10														
	Conductivity Meter: Ultrameter Field Calibration: 447, 2070 µmhos														
Cond									-		1500 ρρm				
		MEASU					rield	Calibrat	<u>:01:</u>	- 00)	, 500 pm				
	Date/ Current.Vol. Purge Temp. DH (umbes/cm) Color Turbidity Donth Remarks														
Date/ Time	Cumul.Vol. (gal)	Purge Rate (gpm)		I PH L	(µmbos/	cm)	Color	Turbio		Depth	Remarks				
258	(ya)	(Shuil)			Field Temp		01=			(R. BMP)					
			19.7	6.95	<u> </u>	[ତାର	Clear	cle.							
300	*	·	(-	6.58		1073	bon/blk	bay my	6.30	<u></u>					
301	2		9.5	6.53		_	dosmy	Clar	14.						
302	3		9.5	6.53		1030	IJ	105± 7	· zlaon		Sample				
								****	- G 1.						
				 				 							
		<u> </u>		 				<u> </u>	`	 					
		 	ļ												
			L	L T			<u> </u>								
			,												
SAM	IPLE IN	VENTO	3Y	<u>. </u>			<u> </u>								
	·	MP) Before S		2.30	Rec	overy %:	96	S	ample	Intake D	epth (ft. BMP):				
Time	Net	Bottles C				Filtratio	n Preser	vation		alysis	Remarks				
303	Volume 125mc		ition (gla (999	ass, plastic)		(Y/N)	(tyr	oe)			(quality control sample, other)				
303				5 F.C	<u>Z</u>	N	1-		10	P/rcp					
10 5	1 ~~~	 	N (-7)	r 112-	- - 	N	+-		1/	1.1					
	—				 										
Chalm	E-Carolina -	agoral #1-	46	199		Г									
CHAIN-0	f-Custody R	ON DIOCHE	LE		······································				*						
							M	lcCul	ley,	Frick	& Gilman, Inc.				
· · · · · · · · · · · · · · · · · · ·		W Sample Form	MCC	Revised 8.8 or	î										

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RO	UNDV	VATE	R SA	MPL	ING RI	ECOI	RD	SAMPL	E NUMBER	PAGE: _of:_} : MW-4					
Project N	lo: 03022	9.2 Pro	ect Nan	ne:_SPI	Arcata Sa	wmill				Date 8/2/103					
Complie	a Location 6	well ID, etc.):	MW	7-4	,	Starting \	Water Lev	rel (ft. BM	(P): \.3						
		t Hillyard				Total De	pth (ft. Bl	/P):	63 Water	er Column Height (ft.):6-27					
•) of Well:	1/).71		Casing D	Diameter (in. 10): <u>2</u> -	Inch Mult	plication Factor: 0.163					
	-	LBGL):	^	0-8.0		Casing V	/olume (g	al.): <u> </u>	2X:	2 3x 3 4x 2 3 7 2 2 3 7 2 2 3 7 2 2 3 7 2 2 3 7					
		ft.BGL):		5-8.0		Water Le	evel (ft.Bl	AP) at En	d of Purge:_	2.32					
	Stick-Up/Do					Total De	pth (ft. Bl	VP) at En	d of Purge:_						
QUAI	LITY AS	SURAN	CE			-	•			.					
NETHO	DS (describ	e):								•					
					distilled w	ater solut	ion foll	owed by	triple rinse	w/ distilled water					
		posable Te					Samp	ling: $\underline{\underline{D}}$	isposable I	eflon Bailer					
		arged Water			Drum	<u> </u>									
INSTRU	MENTS (in	icate make,	model, i	. d.): 'otarlina'	Model 150	<u>`</u>	TL		Ultramet	er ·					
				aternne.	Model 150		Inem	nometer Celibretia	pH 4,	7, 10					
	eter: uctivity Met	<u>Ultrame</u> Ultra	meter				LINE	Calibratic	on: 447, 20	070 μmhos					
Other	-	D5 L	clima	m teter	· ·					, 1500 ppm					
										,					
Date/ Time	Cumui.Vol. (gal)	Purge Rate (gpm)		рH	{#mhos/	¢ (m)	Color	Turbid & Sedin		· · · · · · · · · · · · · · · · · ·					
3.35	(ga) ©	Texte (Sprin)	21.5	6,58	Field Temp.	765	Clear								
337	1		21.4	6.54		734	1 fgmy	Sligh	1/2						
339	2	4 .	21.1	6.55		715	Ų	11							
339	3		21.1	6.51		730	Ţί	TO5 21	16501	Sample					
								1032	77074						
		<u> </u>	<u> </u>					 							
								<u> </u>							
					·										
SAN	MPLE IN	VENTO	RY												
		MP) Before		.232	· Ber	overy %:_	. 2	5 s	ample Intake	Depth (ft. BMP):					
Trato	Cotor (IC C	Bottles	Collecte	ď		Filtration	Prese	rvation	A 1 1 -	Remarks					
Time	Volum	e Compo	sition (gl	ass, plastic				rpe)	Analysis	(quality control sample, other					
340) 125m	L 0	1955			N	1 -		PCP/TCH						
340	Quar	<i></i>	plas	fic.		LAV			10/						
	_			· · · · · · · · · · · · · · · · · · ·		┪				2004/L					
 			ur r	991	4620)() r									
Chain-	-of-Custody	Record No	TUI	` /_	4600				,						
				/			I	McCul	lley, Fric	k & Gilman, Inc.					
ļ	<u> </u>														
i		GW Sample Form	MACACAD	Revised 9-8	45			·							

fed.

GRO	DUND!	WATE	RS	AMPL	ING F	RECO	ORD	SAM	PLE N	UMBEF	PAGE: of:				
Project	No: 03022	29.2 PI	roject Na	me; SP	I Arcata S	awmill					Date_8 <i>P7</i> /03				
		(well ID, etc.)): <u>M</u> V	W-5		Startin	g Water Le	evel (ft. F	BMP):	,8°	<u>f</u>				
		tt Hillyard	<u>l</u>	72'''		1	-	•			er Column Height (ft.):6-76				
	-	iP) of Well:_									iplication Factor: 0.163				
Screene	ed Interval (1	ft.BGL):	2.0-8	0	· · · · · · · · · · · · · · · · · · ·	Casin	g Volume (gal.);	- (2X: Z.	2 3x 3-3 4x				
		(ft.BGL):			·	•	Level (ft.B				1 /2 /				
Casing	Stick-Up/Do	wn (ft.):				Total i	Depth (ft. B	MP) at E	End of I	Purge:_					
		SSURAN	ICE				*				_ ·				
	OS (describ	•			4:-4:11 -	.4.									
i					uistilled wa			·			w/ distilled water				
	-	sposable T			, D		Samp	oling: L	/ISPOS	sable T	eflon Bailer				
		arged Water			IDIUM	··									
	NSTRUMENTS (Indicate make, model, i.d.): Water Level: Envirotech LTD, Waterline Model 150 Thermometer: Ultrameter														
рН М	pH Meter: Ultrameter Blad Californition: pH 4, 7, 10														
Cond	Conductivity Meter: Ultrameter Field Calibration: 447, 2070 µmhos														
Other	Other: TUS Ultrame for Field Calibration: 300, 1500 ppm														
	SAMPLING MEASUREMENTS Purge Characteristics Water Quality Data Appearance														
Date/	Purge Characteristics Water Quality Data Appearance Intake Date/ Cumul.Vol. Purge Temp. Specific Conductance Turbidity Denth Remarks														
Time	Cumut.Vol. (gai)	Purge Temp. (°C) pH (µmhos/om) Color Turbidity Depth (n. BMP)													
406	0	## Hate (gpm) (°C)													
408	1.5		18.6	6.88		661	(1	17							
410	2.5		18.4	6.77		658	1(11							
412	3.5		(8,3	6,72		670	j t	H	US		sam Ple				
	,			, , , , ,		, ,	<u>.</u>	TDS=	TOPPA	$\vdash\vdash$	mery it				
						` .		·							
				l											
				1		·									
								1							
SAM	IPLE IN	VENTO	RY												
Water	Level (ft. BA	AP) Before S	empling:	(• (Rec	overy %;	97	s	ample	Intake D	Pepth (ft. BMP);				
Time	Mal	Betties C				Filtratio	n Preser	vation	An	aiysis	Remarks				
4(4	Volume		· · · · · ·	ss, plastic)	Quantity	(Y/N)	(tyr	эе)			(quality control sample, other)				
414	Quart	1 1/2			1-	N 01	1 -		_	TOP	-				
4!1	- Com	h 1013	<u>ت تراه</u>		1-1-	V	1		- 'T	05					
Chaln-m	haln-of-Custody Record No. 46200														
								1.A -	· ·	ga r -					
	McCulley, Frick & Gilman, Inc.														
		W Sample Form	MAC/CAD	Revised: 9-8-95											

GRO	OUND	WATE	R S	4MPL	ING F	RECC	ORD	SAMP	'LE N	JMBER	PAGE:/_of:_/_ : MW-6				
Project	No: <u>0302</u> 2	29.2 Pr	oject Na	me: SPI	Arcata S	awmill					Date 8/3/03				
		(well ID, etc.)	-				ng Water Le	vel fft. 8	MP):	0.7					
		tt Hillyard									er Column Height (ft.): 6-90				
,	-	P) of Well:		9.77		1					plication Factor: 0.163				
Screen	ed interval (i	tBGL):	,	2.0-8.0		1	-				23X 3.3 4X				
Filter Pa	ack Interval	(fLBGL):	1	.5-8.0			Level (ft.B								
		wn (ft.):				i .	Depth (ft. B								
QUA	LITY AS	SSURAN	ICE			•									
METHO	DS (describ	e):	inov da	targant D-	distilled	uatar ac1	lution full	a 1 1-	المشيه وي	امسام د	end distilled must				
	Cleaning Equipment: Liquinox detergent & distilled water solution followed by triple rinse w/ distilled water Purging: Disposable Teflon Bailer . Sampling: Disposable Teflon Bailer														
•					D	<u></u>	Samp	ding: $\underline{ extbf{D}}$	ispos	able To	etlon Bailer				
· ·	Disposal of Discharged Water: 55-Gallon Drum INSTRUMENTS (Indicate make, model, i.d.):														
	NSTRUMENTS (indicate make, model, l.d.): Water Level: Envirotech LTD, Waterline Model 150 Thermometer: Ultrameter														
	pH Meter: Ultrameter Field Celibration: pH 4, 7, 10														
·	Conductivity Meter: Ultrameter Field Calibration: 447, 2070 µmhos														
Other	τ	<u>-</u>		cr											
							1 1010	_unvial	- urd fin	/-	<i>[[[[[]]]]] [[[[[[[[[[[[[[[[[[[[</i>				
	SAMPLING MEASUREMENTS Furge Characteristics Water Quality Data Appearance Date/ Cumud.Vol. Purge Temp. Specific Conductance Intake Intake														
Date/ Time	Curnuf.Vol. (gal)	Purge Rate (gpm)	Purge Temp. Specific Conductance Color Turbidity Depth Remarks												
425	(ga)	(Mivil)					Clear	Cles		(IL BMP)					
	,		17.6	6.69		872		ļ							
476	91	· ·	17.3	6.58		900	11	S1:542		 					
427	2		17.1.	6.41		946	+9144	flone	14						
429	3.5		171	640		893	e l	T05=0	- 1		sample				
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SAM	IPLE IN	VENTO	RY	*············		L	·			<u></u> 1					
	· · · · · · · · · · · · · · · · · · ·	(P) Before S		1.736	Rec	overy %:	90	s	ample	Intake D	epth (ft. BMP);				
T	1 1/-1	Botties C			T	Filtratio		rvation	<u> </u>	alysis	Remarks				
Time	Volume			ass, plastic)	Quantity 2	1 11111					(quality control sample, other)				
430	125 mc		01.	***		N			rcs	TOP					
70	- muar	 	Plastic	<u></u>	- (N	+		 	705					
		-			1	†		-	 						
Ohala -	Chain-of-Custody Record No. 46 200														
Chain-o	-Custody F	recold No		710 00					-						
 							N	1cCul	ley,	Frick	& Gilman, Inc.				
 		IW Sample Form	MACACAD	Revised 9-8-95											

GRO	OUND	WATE	R S/	AMPL	_[]	NG R	ECC	ORD	SAMF	PLE N	UMBER	PAGE:(_of:_/ :: MW-7			
Project	No: 03022	29.2 P	oject Na	me: SP	ΙA	rcata S	awmill					Date 8/27/03			
		(well ID, etc.)	-					g Water Le	vel (ft. E	MP):_	0.0	é l			
		tt Hillyard		· · · · · · · · · · · · · · · · · · ·			E .					er Column Height (ft.): 707			
Measur	ing Point (M	P) of Well:	9.6	58			Casing	g Diameter	(in. ID):	2-Inc	h Mutti	plication Factor: 0.163			
Screene	ed Interval (ft.BGL):	2.0	-8.0			Casing	Volume (gal.): -	15	_{2X:_} Z.	3 3x 3.45 4x			
Filter Pa	ack Interval	(ft.BGL):	1.5	-8.0	•	;;	ŀ	Level (ft.B							
Casing	Stick-Up/Do	wn (ft.):					[Depth (ft. B							
QUA	LITY AS	SSURAN	ICE					-				*			
	DS (describ	i Lianie	ov data	roant Pr	dia	tillad ma	ton solv	tion follo		4mim1a		-/ distilledten			
	aing Equipm				uis	illied wa	iter som				·····	v/ distilled water			
_	-	sable Teflo			Т	·		Samp	oling:	Disj	posable	Teflon Bailer			
•		arged Water			n L	rum					'				
	-	cicate make, virotech L		•	м	odel 15	0	Thom	nomata-	. 1111	tramete	er ·			
		Ultram				·	~				pH 4, 7				
•	uctivity Met	er. Ultra	meter									070 μmhos			
Other	. 10 5	11/4	amelo	^							100,1				
SAM	PLING	MEASU	REME	ENTS							, ,				
Date/	Purgs Characteristics Water Quality Data Appearance Intake Cumul.Vol. Purge Temp. Specific Conductance (mahos/cm) Color Turbidity Depth Remarks														
Time	t .	Rate (gpm)	rige temp. put (unbasion) Color Turbidity Donth Remarks												
438	0		[4.5	6.72			796	1+gray	5696	11/2					
439	1		(4,2	6,61		-	810	1(********					
440	2		13,9				980	11	ý i						
gaf	3		140	6.63			845	१।	. 1						
442	354		13.9				842	ı ţ	TOU =	5895		Sanfle			
	6								130-			- · r			
	6									<u></u>					
							·			• • • • • • • • • • • • • • • • • • • •					
-															
SAL	ADI E IN	VENTO	DV	L1		1			1	-					
	·	MP) Before S		1.10		Rec	overy %:	93	, s	ample	Intake D	Pepth (ft. BMP):			
		Bottles C					Filtratio		vation			Remarks			
Time	Volume			ss, plastic	;)	Quantity	(Y/N)		pe)		alysis	(quality control sample, other)			
443		. 	1955			4	~				TCP	2(nn-7) 2(MN-A)			
Yuz	Quar	1 +	plast,	<u>C.·</u>			N	 	-	+	05				
		-							•						
			462	001		<u> </u>	r			<u> </u>					
Chain-c	of-Custody F	Record No	(-	_/_							•				
!				′				N	IcCu l	ley,	Frick	& Gilman, Inc.			
}		3W Sample Form	MACACAD	Revised 0.8.0	95										
L	<u> </u>														

GRC)UND	WATE	R S/	AMPL	ING R	RECC	ORD	SAMP	LE N	JMBER	PAGE:ot: : MW-8			
Project	No: 03022	29.2 Pr	oject Na	me: <u>SP</u>	I Arcata S	awmill					Date 8/2 ⁷ /03			
•	-	(well ID, etc.)	•				g Water L	evel (ft. B	MP):_	0,	91			
		tt Hillyard								Wate	or Column Height (ft.): 6-73			
•		(P) of Well:	10.3		*	1					plication Factor: 0.163			
	ed Interval (.0-8.0		-		•	•			2 3x 3.3 4x			
}		(ft.BGL):	1.5-8.0		•		Level (ft.B							
	Stick-Up/Do					•	Depth (ft. E	-			1,20			
QUA	LITY AS	SSURAN	CE			•	+				<u>.</u>			
	DS (descrit	Liqui	inox de	tergent &	distilled w	vater sol	ution fol	lowed b	y tripl	e rinse	w/ distilled water			
	ning Equipm	osable Teflo		· · · · · · · · · · · · · · · · · · ·				pling:			Teflon Bailer			
_		harged Water			n Drum		· Oanq	h## (Å*		000010				
-		idicate make,					-							
	•	virotech L		-	Model 15	0	Then	mometer:	Ult	ramete	r			
	leter:	Ultram				- (Field	i Calibrati		H 4, 7				
5	Lictivity Mel		meter	0 4-0	<u> </u>			l Calibrati			70 µmhos			
Othe	÷	 		ne ter			Flek	Calibrati	ion; 3	00,150	of the			
SAM	IPLING	MEASU	REME			·	···							
Date/ Time	Curnud.Vol		Temp,	рН	(gmhos/	ductance (cm)	Color	Turbic	fity	Intake Depth	Remarks			
	(gal)	Rate (gpm)	(°C)		9 Field Temp		C 10am	& Sediment		(R. BMP)				
1007	605 0 216 6.54 736 clear Clear													
1008	2		200			7 32		11		-				
1009	3.5		208	6.15		730	ıί	TDS==	501.0		sample			
								100-	TIPM					
								1.						
SAN	IPLE IN	IVENTO	RY					•			-			
Water	Level (ft. B	MP) Before S			O Rec	overy %:	96	s	ample	Intake D	epth (ft. BMP):			
Time	Volume	e Compos		ass, piastic	c) Quantity	Filtratio (Y/N)		rvation pe)	Ana	alysis	Remarks (quality control sample, other)			
1010	m 75]	4	9(99	5	(حر	M		 	PCI	TCP				
1010	1-Q-	+	0/95	\mathcal{L}	N.	N			7) <u>5</u>				
						-		·		÷	***************************************			
Chain-c	of-Custody I	Record No	4	6201		[
 		GW Samole Form	,	ř			ľ	/IcCul	ley,	Frick	& Gilman, Inc.			

GRO	DUND	WATE	RS	AMP	LING F	REC	ORD	SAM	PLE N	UMBEF	PAGE: of: \ MW-9				
Project	No: 0302	29.2 P	roject Na	me: SI	PI Arcata S	awmill					Date_8/≥7/03				
Samplin	ng Location	(well ID, etc.	:_M\	N-9		Startin	ng Water Le	evel (ft. l	 BMP):_	0.					
1 '		tt Hillyard	l			Total	Depth (ft. B	MP):(-60	Wate	er Column Height (ft.): 6.79				
Measur	ing Point (M	IP) of Well:_	9.8	6		Casin	g Diameter	(ln. 1D):	2-Inc	h Multi	plication Factor: 0.163				
Screen	ed Interval (fLBGL):	2.0-8	3.0		Casin	g Volume (gal.):	<u>, </u>	2X: 2.	Z 3x 3-34x				
1		(ft.BGL):			<u>.</u>	Water	Level (ft.B	MP) at E	End of	Purge:					
Casing	Stick-Up/Do	own (ft.):				Total	Depth (ft. B	MP) at I	End of	Purge:	4.40				
		SSURAN	ICE				•				**				
	DS (describ	Lia	iinox de	etergent	& distilled s	water so	lution fol	lowed 1	hy trir	de rince	w/ distilled water				
	ning Equipm	sposable To													
	-	sposable 10					· Samp	oling:	_ Di	sposabi	e Teflon Bailer				
		dicate make,			ni Dium										
					e Model 15	60	Them	nometer	. Uli	ramete	er				
рНМ	eter:	Ultram	eter .							oH 4, 7					
Cond	Lictivity Met	er Ultra	meter				Fletd	Calibrat	ion:	147, 20	70 μmhos				
Other		s: WH			<u> </u>		Field	Calibra	tion: ⁷	,00,1	500 ppm				
SAM	SAMPLING MEASUREMENTS Purgo Characteristics Water Quality Data Appearance														
Date/	cate/ Cumul.Vol. Purge Temp. PH Specific Conductance Color Turbidity Depth Remarks														
Time	(gal)	Rate (gpm)	(°C)	p∺	© Field Temp		Color			(t. BMP)	Called				
७५५	0		218	6.39		805	Cler	clea							
1046	1.0	-	20,9	6,29	,	833	. (.	ę ę							
1048	2		20.Z	6.27		804	14 aray	Clan	dy						
1050	3,5		70.4	6.24		\$30	LA.	TPS=	5730	ar)	sample				
															
				 				ļ							
		<u> </u>													
		<u> </u>													
								1							
SAN	IPLE IN	VENTO	RY				4								
Water	Level (ft. Bi	MP) Before S	ampling:	1.7	O_Rec	overy %	94	s	ample	Intake D	epth (ft. BMP):				
Time	Volume	Compos		ı ıss, plasti	c) Quantity	Filtratio			Ana	dysis	Remarks				
1050			1955	, prastr	7	(Y/N) <i>√</i>	(tyr			FOP	(quality control sample, other)				
1050	Quar		0/991	10		W			TE						
									1 5						
								•							
Chain-o	f-Custody R	lecord No		1620	1				,						
							M	lcCul	ley,	Frick	& Gilman, Inc.				
		IW Sample Form	MACACAD	Revised: 9-8	45										

GRO	DUND	WATE	R S	AMP	LING F	REC	ORD	SAMF	PLE N	UMBEF	PAGE: _of:__ R: MW-10			
Project	No: <u>030</u> 22	29.2 P	roject Na	ıme: SI	PI Arcata S	awmill					Date 8/27/03			
Samplin	ng Location	(well ID, etc.): MY	<i>X</i> -10		Startin	ng Water Le	evel (ft. E	3MP):_	[-0]				
		tt Hillyard								Wat	er Column Height (ft.): 6.69			
Measur	ing Point (M	IP) of Well:_	9 80		-	Casin	g Diameter	(in. ID):	2-Inc	h Mult	plication Factor: 0.163			
Screene	ed interval (fLBGL):	2.0-8.0	····							23x 3, 3 4x			
Fifter Pa	ack Interval	(ft.BGL):	1.5-9.	5	•	Water	Level (fLB	MP) at E	end of i	ourge:	1.80			
Casing	Stick-Up/Do	wn (ft.):				Total	Depth (ft. B	MP) at E	End of I	Purge:				
QUA	LITY AS	SSURAN	ICE				-				<u>.</u>			
	DS (descrit	· I ia	minov o	letergeni	& distilled	woter o	olution fo	llowed	har eni	ala sina	e w/ distilled water			
	ing Equipm				o distilled	water s		· · · · · · · · · · · · · · · · · · ·						
•		sable Teflo			n Daim		Samp	oling:	Dist	osable	Teflon Bailer			
		arged Water dicate make,			n Drum				······································					
t	•	-	•	•	e Model 15	0	Thor	nometer	. Ult	ramete	er ·			
	eter							Calibrat						
Cond	uctivity Met	er Ultra	meter		···						070 μmhos			
Other	<u>. TDS</u>	: UH	ame	e^			Field	Calibrat	ion: 3	00,1	500 cpm			
SAM	PLING	MEASU	REM				ti.			,				
Date/	me Con Date (umbestam) Color Turbidity Depth Remarks													
Time	(gal)	Rate (gpm)		pН	(µmhos/ • Field Temp		Color			Depth (a. BMP)	Hemanks			
1155	0		231	6.33		895	Clear	Cle	•.^-					
1126	l		27,7	6.27	v	865	Harry	5100	4+14					
liza	2,5		22.5	6.25		658	1,1	1 -	cly					
1/29	3.5		27.5	626		361	ŀι	don	را ام ال		sample			
						·		-05	595PA) > ~				
			·	 					/					
			<u> </u>		· ·				-					
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							Ì							
	-													
SAM	IPLE IN	VENTO	RY					•						
Water	Level (ft. Bi	AP) Before S	ampling		<u>∄⁄1Rec</u>	overy %:	87	7s	ample i	Intake D	epth (ft. BMP):			
77	1	Bettles C				Filtratio		vation	Ano	lysis	Remarks			
Time W30	Volume [25m/c			ıss, plasti		(Y/N)	(tyr) 			(quality control sample, other)			
1130			plas	10	_ ~	N		_		/TCP				
			7 .00	1 344		N	 			<i>y</i>				
Chain-o	f-Custody R	lecord No	4	620	1	Г	-							
							-	I (A		Jm	0.085			
							M	iccul	iey,	Frick	& Gilman, Inc.			
	9	W Sample Form	MAC/CAD	Revised: 9-8	95									

GRO	DUND	WATE	R S	AMPL	ING F	REC(ORD	SAM	PLE NI	JMBEF	PAGE:of:					
Project	No: 0302	29.2 P	roject Na	me:_SP	I Arcata S	awmill		•			Date 8/27/03					
•		(well ID, etc.)	-				ng Water Le	evel (ft. i	BMP):_	1-						
		tt Hillyard					Depth (ft. B			Wat	er Column Height (ft.): 231					
Measur	ing Point (M	IP) of Well:_	10.2	26		1					iplication Factor: 0.163					
Screen	ed interval (fLBGL): 2	.0-8.0								-4 3x 36 4X					
L		(ft.BGL):				1	Level (ft.B	-			2					
Casing	Stick-Up/Do	own (ft.):				Total	Depth (ft. B	BMP) at l	End of F	ourge:_						
QUA	LITY A	SSURAN	ICE			-	•			***	-					
ı	DS (describ	Lion	inov de	targant Pr	distillad r	votor col	lution foll	lawad 1	6		w/ distilled water					
6	ing Equipm				distilled v	valet so										
t T	-	osable Teflo					Samp	pling:		Dispos	able Teflon Bailer					
· ·	•	narged Water			Drum				 							
	_	dicate make, virotech L	-	•	Model 15	50	Thom	nometer	T TI t	rameta	ar ·					
	eter:			4.0111110		, <u> </u>		Calibra								
•	uctivity Met	7.71	meter)70 µmhos					
Other	. TD	5 ult	rane t	Lev			Field	Calibra	tion: 3	OD, 15	00 ppm					
SAM	SAMPLING MEASUREMENTS Purge Characteristics Water Quality Data Appearance															
Date/	Purgs Cha Cumul.Vol.	N. Purge Temp. Specific Conductance Color Turbidity Intake Depth Remarks														
Time	(gal)	Rate (gpm)		pH ē	(#mhosi Field Temp		Color			Depth (s. SMP)	Hemarks					
1000	<u></u> 6		233	624		きのし	Clear	* 10								
1023	1,0	·	23.6	6.22	,	878	1+615	Sha	htly dy							
OSY	₹. Ø		८३ ६	6.20		876	N	CLO	ud y		·					
[BS2	<i>₹</i>		23.2	6.20		876	11	1.1								
1024	40		227	6.22		874	n	400	60510		59mg/e					
·																
SAM	IPLE IN	VENTO	RY	· · · · · · · · · · · · · · · · · · ·					-							
Water	Level (ft. Bl	MP) Before S	ampling:	(3,	8 Rec	overy %:	97	s	ample I	ntake D	epth (ft. BMP):					
	7 :	Bottlee C				Filtratio	n Preser		l	lysis	Remarks					
Time	Volume			ss, plastic)		1 122.4	(ty)	pe)			(quality control sample, other)					
1021	Quart		155 lastic		12	N		<u>-</u>	PCP/							
1-0.1	3000	 	19/7			-/-	 		17	05	<u> </u>					
			·····		 		1			.	<u> </u>					
Chain-o	f-Custody F	Record No	1620	/ 467	102				·		h.					
							1	انداعوا	lov i	Erial	& Gilman Inc					
						-	iv.	iceul	iicy, I	TICK	& Gilman, Inc.					
		W Sample Form	MACACAD	Reviewt 8-8-05	i											

d by: <u>Ma</u>	2 <u>9,2 </u>	roject Na	S1								
d by: <u>Ma</u>	(well ID, etc.			PI Arcata S	<u>awmill</u>					Date_8/	/03 🗽
-): <u>M</u> V	W-12	- i		ng Water Le			1.54	12	
Land Parker All	tt Hillyard		···		Total	Depth (ft. B	MP):_{	5.3	了 Wat	er Column Height (ft.):	15,51
ng roint (M	IP) of Well:	10.73		•	Casin	g Diameter	(In. ID):	2-Inc	h Mut	dplication Factor, 0.1	63
d Interval (ft.BGL):	2.0-8.0			Casin	g Volume (gal.):\	<u></u>	2X:	- (3X 3 - 6 4X	
ack Interval	(ft.BGL):	1.5-9.5		-	Water	Level (fLB	MP) at I	End of	Purge:_	1.45	
Stick-Up/Do	งพก (ft.):	•			Total	Depth (ft. B	MP) at	End of	Purge:_		
LITY AS	SSURAN	ICE			-	-					
DS (describ	e): Liquino	ox deter	gent & c	distilled wat	er soluti	on follow	ed by	triple	rinse w	/ distilled water	
											· · · · · · · · · · · · · · · · · · ·
				n Drum		Samp	:gnik	. 1/1	<u> зрозао</u> .	ie renon baner	
											
-	virotech L	TD, W		e Model 15	0	Them	nomete				·
•						-		tion:	pH 4, 7	7, 10	
uctivity Met						Fletd	Calibra	tion:	<u>447, 2(</u>	070 μmhos	
-						Fleid	Calibra	tion:	300,	1500 pm	
						, -·		. <u> </u>	· · · · · · · · · · · · · · · · · · ·		
	Purge	Temp.	ρH	Specific Con (#mhos	ductance om)	Color	Turb	dity	intake Depth (IL BMP)	Remarks	
Ø		2l.i ·	1		718	Clear	cle	01			
10	•	7 2.9	6.20	·	820	1		"' -			
20		23.2	6.16		862	1t brn	51.94	#14		. #	
3.0		23.1	6.16		867		cloud	7			
4.0		23, 2	6,20	٠.	872			OFM		Sample	,
										<i>y</i> .	
		<u> </u>					<u> </u>				
			1115	- -		- C				· · · · · · · · · · · · · · · · · · ·	
Texel (it. Ry				Rec				ample	Intake D		
Volume				c) Quantity	Filtration (Y/N)			Ana	alysis	1	de, other)
125ml	9.	1995		2				84	/~cP		
Igun			يې	<u> </u>	N						
1		V									
<u> </u>		/ / /						<u></u>	**************************************	<u> </u>	
-Custody R	ecord No	40	<u> 202</u>								
						M	lcCul	lev	Frick	& Gilman Inc	<u>.</u>
	LITY AS DS (described in the property of the	DS (describe): ling Equipment: Liquing: Disposable Tefforms of Discharged Water MENTS (indicate make, revet: Envirotech I undicate make, revet: Envirotech I undivity Meter: PLING MEASU Purge Characteristics Cumul.Vol Purge (gal) Rate (gpm) Purge (ft. BMP) Before S Purge Characteristics Cumul.Vol Purge (gal) Rate (gpm) O	LITY ASSURANCE DS (describe): Ing Equipment: Liquinox deter Ing: Disposable Teflon Baile sal of Discharged Water: MENTS (indicate make, model, Level: Envirotech LTD, Wester: Ultrameter U	LITY ASSURANCE DS (describe): Liquinox detergent & cong. Disposable Teflon Bailer sal of Discharged Water: 55-Gallo MENTS (indicate make, model, i.d.): Level: Envirotech LTD, Waterline ster: Ultrameter Luctivity Meter: Ultrameter PLING MEASUREMENTS Pargo Characteriation Water Cumul.Vol. Purge Temp. (gal) Rate (gpm) (°C) pH D 211 6.50 23.2 6.16 3.0 23.1 6.16 4.0 23.2 6.20 PLE INVENTORY Level (ft. BMP) Before Sampling: 1.45 Purge Composition (glass, plasticated Volume Composition (glass) (LITY ASSURANCE DS (describe): Ing Equipment: Liquinox detergent & distilled wat Ing: Disposable Teflon Bailer sal of Discharged Water: 55-Gallon Drum MENTS (indicate make, model, i.d.): In Level: Envirotech LTD, Waterline Model 15 Beter: Ultrameter Lictivity Meter: Ultrameter Lict	Stick-Up/Down (ft.): LITY ASSURANCE DS (desortbe): Liquinox detergent & distilled water solutions. Ing Equipment: Liquinox detergent & distilled water solutions. Disposable Teflon Bailer seal of Discharged Water: 55-Gallon Drum MENTS (indicate make, model, i.d.): Level: Envirotech LTD, Waterline Model 150 ater: Ultrameter Ultrameter Ultrameter Ultrameter Cumul.Vol. Purge Temp. PH Specific Confectance (gal) Rate (gpm) (*C) PH (phoce/em) 25°C. DS 211 6.50 TB 20 23.2 6.16 862 23.2 6.16 862 23.2 6.16 862 23.2 6.16 862 23.2 6.16 862 3.9 23.1 6.16 862 4.0 25.2 6.20 872 PLE INVENTORY evel (ft. BMP) Before Sampling: Volume Composition (glass, plastic) Quantity (Y/N) 125.0 9/955 19unt Passic. N	Stick-Up/Down (ft.): Total Depth (ft. BLITY ASSURANCE Dis (describe): Liquinox detergent & distilled water solution following Equipment: Liquinox detergent & distilled water solution following: Disposable Teflon Bailer Sample Sample Salor Disposable Teflon Bailer Sample Sample Salor Disposable Teflon Bailer Sample Sample Salor Disposable Teflon Bailer Sample Salor Salor Drum MENTS (Indicate make, model, Ld.): Therefore Envirotech LTD, Waterline Model 150 Therefore Ultrameter Field Told Supply Salor Sa	Stick-Up/Down (ft.):	Stick-Up/Down (ft.): LITY ASSURANCE Dis (desoribe): Ing Equipment: Liquinox detergent & distilled water solution followed by triple: Ing: Disposable Teflon Bailer Sampling: Disposable Teflo	Stick-Up/Down (ft.): LITY ASSURANCE Discosofts Discosofts Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Flield Calibration: Disposable Teflon Bailer Flield Calibration: Disposable Teflon Bailer Disposable Teflon Bailer Flield Calibration: Disposable Teflon Bailer Flield Calibration: Disposable Teflon Bailer Flield Calibration: Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Bailer Disposable Teflon Bailer Sampling: Disposable Teflon Burler Themometer Disposable Teflon Burler Themometer Flield Calibration: PH 4, 7, 21 Fleid Calibration: Disposable Teflon Burler Fleid Calibration: PH 4, 7, 21 Fleid Calibration: Fleid Calibration: PH 4, 7, 21 Fleid Calibration: Fleid Calibration: Fleid Calibrat	Stick-Up/Down (ft.): LITY ASSURANCE DS (desorbe): Liquinox detergent & distilled water solution followed by triple rinse w/ distilled water not provided by triple rinse w/ distilled water solution followed by triple rinse w/ distilled water not provided by triple rinse w/ distilled water solution followed by triple rinse w/ distilled water not provided by triple rinse w/ distilled water solution followed by triple rinse w/ distilled water not provided by triple rinse w/ distilled water solution followed by triple rinse w/ distilled water not provided

i L F

GRO	DUND'	WATE	RS	AMP	LING F	RECO	ORD	SAM	PLE NUMB	PAGE: <u>Cof: 1</u> ER: MW-13D
Project	No: <u>0302</u> 2	29.2 P	roject Na	sme:S	PI Arcata S	awmili				Date 8/27/03
Samplin	ng Location	(well ID, etc.	: <u>M</u> V	<u>W-13D</u>)		g Water L			4.5
Sample	d by: Ma	tt Hillyard	<u> </u>			Total (Depth (ft. E	MP):	8.70 W	ater Column Height (ft.): 14.45
Measur	ing Point (M	IP) of Well:_	9	.84	•					ultiplication Factor: 0.163
Screen	ed Interval (ft.BGL):	15.0-	20.0		Casing	y Volume (gal.): <u>2</u>	. 3 5 2X:	4.7 3x 7054x
-Itter Pa	ack Interval	(ft.BGL):	13.5	-21.0	•	Water	Level (ft.8	MP) at E	End of Purge	5,00
Casing	Stick-Up/Do	wn (ft.):	·			Total [Depth (ft. 8	MP) at I	End of Purge	
QUA	LITY AS	SSURAN	ICE			•	-			· · ·
METHO	DS (describ	e); Liquinox	deterg	ent & di	stilled wate	r solutio	n followe	d hv tr	inle rinse u	/ distilled water
		sable Teflo			· · · · · · · · · · · · · · · · · · ·	Solution				
•		narged Water			n Deum		Samı	oling:	Disposa	ble Teflon Bailer
		iarged Water dicate make,			וווטועבווג				·	. ,
					e Model 15	50	Then	nometer	: Ultrame	eter
	eter	Ultram						Calibral	77.4	, 7, 10
Cond	Lictivity Met	•••	meter				Fleid	Calibrat	ion: 447,	2070 μmhos
Other	r T0	5 W.A.	rare	60			Field	Calibra	ion: 300,	1500 ppm
SAM	PLING	MEASU	REM	ENTS		-			r	
Date/	Purge Che Cumul.Vol.	racteristics Purge	Temp.	1	Quality Date Specific Con	ductance	App	- Tant	i Intak	8
Time	(gal)	Rate (gpm)		pН	(µmhos © Field Temp		Color	Turbi & Sedi		h Remarks
58	6		260	6.72		650	Clear	Cle	×^.	
20	2	-	les	6.32		722	7 6			
204	4		15,2	6.21		755	١t	11	,	
208	6		14.8	6,07		1106	Į i	ł,		
zu	225		14-6	6.12	2.	1000	ተሰ	5 27 4 8 0	e Rm	5am/10
	\$ P						·			· vvp
	*		-							
							 			
										
SAM	IPLE IN	VENTO	RY		· · · · · · · · · · · · · · · · · · ·				·	······································
Water	Level (ft. Bk	AP) Before S	ampling	<u> </u>	<i>0</i> Rec	overy %:	96	s	ample Intake	Depth (ft. BMP):
Time	Volume	Bottles C		ı ıss, plasti	c) Quantity	Filtration (Y/N)	. r		Analysis	Remarks (quality control sample, other)
ZIZ	125m		01/956		2	N	(ty)	-	PCP/TCF	
212	Quart	-	Pla	900c		N			105	
			v							
 Chain-o	f-Custody R	ecord No	462	202		<u> </u>				
							N	lcCul	ley, Fric	k & Gilman, inc.
						1				

GRC	'DND	WATE	R S	AMPL	ING R	ECO	RD	SAMF	PLE N	UMBER	PAGE:(_of:_/_ : MW-14
Project	No: 03022	29.2 Pr	oject Na	me; SPI	Arcata Sa	awmill	-				Date 8/27/03
		(well ID, etc.)	_) Water Le	evel (ff. P	BMP):	2.2	
		tt Hillyard				Total D	epth (ft. B	MP):	7-70	 Wate	r Column Height (ft.):5.43
		P) of Well:	9.0	02	-	Casing	Diameter	(in. ID):	2-Inc	h Multip	plication Factor: 0.163
Screene	ed Interval (1	tBGL):	2.0-8.	0							3x 2, 7 4x
Fliter Pa	ick interval	(ft.BGL):	1.5-8	.0 -		Water L	_evel (ft.B	MP) at E	nd of l	Purge:	7,41
Casing	Stick-Up/Do	wn (ft.):					epth (ft. B				
QUA	LITY AS	SURAN	ICE			•					•
	DS (describ	` I ia	ninov d	letergent &	distilled:	water co	lution fo	llowed	by tei	nla ring	e w/ distilled water
	ing Equipm	OTIL			x distilied	water so					
•	·	sable Teflo arged Water			Drum		Samp	pling:	DIS	posable	Teflon Bailer
-		arged water dicate make,			ווווווערב				·····	······································	
		virotech L		*	Model 15	0	Them	nometer	Ul	tramete	r
		Ultram					Fleld	Calibrat	ion:	pH 4, 7	, 10
	, , _ [Ultra	meter	<u> </u>							70 μmhos
Other	·	MEASU	COMP	······································			Field	l Calibrat	ion:	500,	1500 fpm
		resteriation			sallty Date	— т	App			1	
Date/ Time	Curnul.Vol. (gal)		Temp.	DH St	pecific Conc (#mhos/ Field Temp		Color	Turbic & Sedin	dity	Intake Depth (t. BMP)	Remarks
1712	0		27,1	6.55			Yellow	cle			
1313	(21.7	6.51		2860	ų t	,,			
1315	Z	**************************************	20.7.	6.39		3240	1+ben	Clan	df		
(316	2.5		20.0	6,57		3430	brn	/1			
1318	3.0		17.5			3590	Ĺt	TRS 1/2	300 a.s.		No recovery
								1,60,52	May 1		sample after Zhrs
			 	 				 	<u> </u>		,
		 	 	-				 			
		·						1			
			<u> </u>	<u> </u>				<u></u>			
SAM	IPLE IN	VENTO	RY	(//					· Vari	-	· · · · · · · · · · · · · · · · · · ·
Water	Level (it. Bi	MP) Before S			Rec	overy %:_	38	s	ample	Intake D	epth (ft. BMP):
Time	Volume	Compos		ass, plastic)	Quantity	Filtration (Y/N)		rvation i pe)	An	alysis	Remarks (quality control sample, other)
1551	125m	- 9	1		2	- 1	"	r - y	PC	PTCP	
1751	Quar		1455		L	N		-		ÚS	
		_									
		<u> </u>	11	/ 6	<u> </u>	<u> </u>	<u> </u>		<u> </u>		
Chain-c	f-Custody F	Record No	91	6202	*					,	
			_				_				
		•					₽.	/ICCul	ley,	Frick	& Gilman, Inc.
		3W Semple Form	MACOSO	0_4.4.5.5			ħ.	/IcCul	ley,	Frick	& Gilman, Inc.

GRO	UND	WATE	RS	AMPL	ING F	REC	ORD	SAM	PLE NUMBEI	PAGE: _of: _ R: MW-15D
Project N	to: <u>0302</u> 2	29.2 P	roject Na	ame: SPI	Arcata S	awmill				Date 8/27/03
Sampling	g Location	(well ID, etc.): <u>M</u>	W-15D		Starti	ng Water L	evel (ft. E	BMP):	
Sampled	iby: Ma	tt Hillyard	<u>i </u>		b -	Total	Depth (ft. E	BMP):__	9.75 Wal	er Column Height (ft.): (4 .04
Measurir	ng Point (M	IP) of Well:_		11.08		1				tiplication Factor: 0.163
Screene	d Interval (fLBGL):	15	5.0-20.0		Casin	g Volume (gal.): 2	3 2x: 4.	6 3x 6 9 4x
Filter Pa	ck Interval	(ft.BGL):	1	4.0-21.0		Water	Level (fLB	MP) at E	End of Purge:_	5.45
Casing 8	Stick-Up/Do	wn (ft.):				1			End of Purge:_	· · · · · · · · · · · · · · · · · · ·
QUAL	LITY AS	SSURAN	ICE	-						
	OS (descrit	· Lian	inov de	etergent &	dictilled v	vater co	lution foll	lowed b	vy trinlo ringe	w/ distilled water
	ng Equipm	~ · · · · · · · · · · · · · · · · · · ·			uistilleu v	valet su				
•		sable Teflo			D		Sam	pling:	Dispo	sable Teflon Bailer
-		narged Water dicate make,			Drum		,			
		virotech L	•	•	Model 15	0	Thom	maniaiar	: Ultramet	ar ·
	ter:	Ultram				<u> </u>		Calibrat	77.4	
•	ctivity Met	T 71.	meter						ion: 447, 20	
Other:	TD	5 · 41-	trane	yer.						500 ppm
SAMI	PLING	MEASU	REMI	ENTS						
	arge Cha Cumul.Vol.	racteristics Purge	Temp,		eilty Data	ductance	Арр		Intoko	
Time	(gal)	Rate (gpm)		I PH L	(µmhes/ Field Temp		Color	Turbi & Sedi		Remarks
275	0		16.4	6.68		630	Clear	clea	,	
229	2		14.4	4.30	- :	1108	14 yellow	Cle	er	
232	4		14.1-	6.55		1200	· Li	Ų/		•
236	6		14.7	6.53		1260	71	, /		
36	7		13.9	6.28		1270	e ($\xi_{i} f$		
239	7.5		13.9	6.32		1275	Lι	7052	9 0904	Sample
									J. J. J.	
					#3. ₂ ,					
			,						·	
SAM	PLE IN	VENTO	RY					-		
Water L	evel (ft. Bl	IP) Before S	ampling	5,45	Rec	overy %:	102	S	ample Intake D	epth (ft. BMP):
Time	Volume	Compos		ss, plastic)	Quantity	Filtratio (Y/N)			Analysis	Remarks (quality control sample, other)
239	125m		1465		2	////	(tyr	//e)	PCP/TCP	(chosity country southle, oriet)
239	(Rum !		Plas	1.6.	1	N	1 .		+ns.	
									147	
	<u></u>	<u> </u>								
hain-of-	Custody R	ecord No.	46	203		Ī				
			******				M	lcCul	lev. Frick	& Gilman, Inc.
				<u> </u>			49:	.vvui	ioy, i tion	w william is the
	G	W Sample Form	MACICAD	Revised 9-8-65						

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GRO	OUND	WATE	R S	AMPI	ING F	RECC	ORD	SAMP	PLE N	UMBER	PAGE: (of:) : MW-16D
Project	No: 03 <u>0</u> 22	29.2 Pr	roject Na	me: SP	I Arcata S	awmill					Date 8/2703
-		(well ID, etc.)	_				g Water Le	vel (ft. E	MP):	3, 9	5
		tt Hillyard				ŧ	-		-		er Column Height (ft.): 15-35
	ing Point (M	_	9.8	0		1		•			plication Factor: 0.163
	ed Interval (f		15.0-20	0.0							3x 7. 5 4x
		(ft.BGL):	14.0-2	1.5	•		Level (ft.Bl				
	Stick-Up/Do					i .	Depth (ft. B				
QUA	LITY AS	SURAN	(CE			•	-				¥ · *
	DS (describ	i Lio	uinov d	latarnant	& distilled	water of	obution fo	llowed	hv. tri	nla rina	e w/ distilled water
	ing Equipm	etir			& distilled	water st					
_		sable Teflo			T		Samp	ding:	L	isposal	ole Teflon Bailer
1		arged Water			n Drum	····					
l .	•	<mark>dicate make,</mark> virotech I		•	Model 15	 ი	Tha-	nomete-	. T 111	ramete	Y
		Ultram	•							oH 4, 7	
,	uctivity Met	er: Ultra	meter								070 μmhos
Other		5: (a)	tren in	e ter					-		1500 ppm
SAM	PLING	MEASU	REME	ENTS						<i>γ</i>	
Date/	Purge Cha Cumul.Vol.	racterietics Purge	Temp.	Water C		ductença		Turbi		Intake	Daniel.
Time	(gal)	Rate (gpm)		pH	(µm hos/ Priekt Temp.		Color	& Sedi		Depth (t. BMP)	Remarks
11343	0		20.2	669		4200	ander	cle	< <i>></i> -		
1141	2		167	7,04		4500	alt onber	cle	on n		
1145) -		15.7.	7.22		5000	11	/ 1			
1149	.		15.7	7.38		4890	11	.! *			
1152	7.5		16.1	7.40		4990	11	105	=3420	e¢⊩	Sample
										,	
								 			
				1				-			
		·				···		<u> </u>			,
CAL		VENTO	D)(<u> </u>	•		, , , , , , , , , , , , , , , , , , , ,
		VENTO		4.2	5 -		92		······································		
vyater	rever (IC B)	MP) Before S		-	Rec	overy %:			ample	Intake C	Pepth (ft. BMP):
Time	Volume			ass, plastic) Quantity	Filtratio (Y/N)		rvation pe)	An	alysis	Remarks (quality control sample, other)
1152	12.24	4 9	(995		2	N	,m1x.		PCF	TOP	
1152	Cuo;	*	Pla	5 tie	(1	-	·	TI) 5	
	<u> </u>							,			
<u> </u>	<u> </u>		4 5 1	·	<u>, </u>	<u> </u>			<u> </u>	·	
Chain-c	f-Custody F	Record No	46	203	> 						
							N	lcCul	ley,	Frick	& Gilman, Inc.
-		N44.0	****								
		W Sample Form	MACACAD	Hertest: 9-84	15						

GRC)UND	WATE	R S	AMPL	ING R	ECC	ORD	SAMP	LE N	UMBER	PAGE: of:
Project i	No: 03022	.9.2 Pr	oject Na	me: SPI	[Arcata Sa	ıwmill					Date 8/27/03
		well ID, etc.)	-				g Water Le	wel (ft. B	MP):_	1.0	
		t Hillyard				l .	-	-			ar Column Height (ft.): 6-31
Measuri	ing Point (M	P) of Well:		· · · · · · · · · · · · · · · · · · ·	98	ŧ				_	plication Factor: 0.163
		t.BGL):									3x34x
Filter Pa	ack Interval	(ft.BGL):	1.5-9.0	0 .	· 	Water	Level (fLBI	MP) at E	nd of f	ourge:	1,46
Casing	Stick-Up/Do	wn (ft.):				E .	Depth (ft. B				
		SURAN	CE				-				- 1
	DS (describ	Liani	inox de	tergent &	distilled w	ater sol	ution foll	owed h	y trini	le rinse	w/ distilled water
	n <mark>ing Equipm</mark> Dispo	ent:sable Teflo									e Teflon Bailer
_		arged Water			ı Drum		Samp	∕na t¥:	1/1	-p-03401	
_		dicate make,	,			*******					
Water	r Level: En	virotech L	TD, W	•	Model 15	0				tramete	
		Ultrame					Field	Calibrati	ion:[pH 4, 7	', 10`
B	· · · · · ·	Dltra	uneter	ne ter							070 μmhos
Other		MEASUI	1.3		<u> </u>		Field	Calibrat	ion: 🧦	1	500 pfm
		MEASUI		Water Q	sailty Data		App	• ATRRG •		1	
Date/ Time	Cumul.Vol. (gal)		Temp.	pH L			Color	Turbic & Sedin	dity	Intake Depth (t. BMP)	Remarks
1250	P		20.7	4			Chear	C)00	<i>m</i>		
252	104.	-	18.9	8.00	·	862	IV.	1	1.7		
254	7 2		18.7	7.68		828	gray	Clow	dy.		
255			18.6	7.38		855	W	. 17	,		
1256	3.4		18.6	7.28		851	1.	V			
[257	4		18.6	7,15		865	l!))			-
(258	5		18.7	7.05		670	ŧχ	17			
(259	5.5	·	18.6	7.00		860	1+	TDS=	595		Sample
SAM	IPLE IN	VENTO	RY					-			
Water	Level (ft. Bh	AP) Before S	ampling:	1.40	Rec	overy %:	94	s	ample	Intake D	Pepth (ft. BMP):
Time	Volume	Compos) Quantity	Filtratio	1 .	rvation	Ana	alysis	Remarks
1259			3 1 2) 1100m	uss, plastic)) Cluantity	(Y/N)	(6)	pe) 		A CD	(quality control sample, other)
1259			···· +			+%	,	_		<u>n</u> 5	
<u> </u>								-			
Chain-o	of-Custody R	lecord No.	4	620	3	「					
							N	1cCul	ley,	Frick	& Gilman, Inc.
	G	IW Semple Form	MACACAD	Revised: 9-8-00	5						

GRO	DUND	WATE	R S	AMPL	ING R	RECO	ORD	SAMP	LE NUMBEF	PAGE: <u>k_of: 1</u> R: MW-18
Project	No: 0302	29.2 P	roject Na	me: SP	I Arcata S	awmill	····	<u>.</u>		Date 8/27/03
Samplin	ng Location	(well ID, etc.	: <u>MV</u>	W-18		Startin	g Water L	evel (ft. B	MP):	55
		tt Hillyard				Total (ig Water L Depth (ft. E	MP):	7.8°C) Wat	er Column Height (ft.): 7.25
Measur	ing Point (M	IP) of Well:_	9.53		•	l .				iplication Factor: 0.653
	ed Interval (_	2.0-8.0							4 3x 14.24x
	•	(ft.BGL):	1.5-9.5			E .			nd of Purge:	
	Stick-Up/Do					1			nd of Purge:_	
QUA	LITY AS	SSURAN	ICE				_			· · ·
METHO	DS (descrit	oe):								*
Clear	ning Equipm	ent:Liq	uinox d	letergent	& distilled	water so	olution fo	llowed	by triple rins	se w/ distilled water
_	-	osable Teflo					Sam	oling:	Disposable	Teflon Bailer
-		narged Water			n Drum		 			
		dicate make,			N	0	-		TT1.	
		virotech L		aterline	Model 15	<u>U</u>		nometer.		
-	leter:		eter imeter		•	 		Calibrati		
Cond Other	Lictivity Met) S U/+						Calibrati		070 μmhos
		MEASU				····	rieid	Calibrati	ion: 500	1,1500 ppm
OAN		resteriation			wellty Data	· · · · · · · · · · · · · · · · · · ·	ÂDS	*418.50	-	
Date/ Time	Cumul.Vol. (gal)		Temp.	pH s	pecific Cond (µmhos/ Field Temp	inclance om) Q 25 ° C.	Color	Turbid & Sedin		Remarks
058	0		23.3	615		728	clea	cle	ar	
1102	4		22.7	625	-	003	it bin	8184	117	
1106	8		22.7	6.22		1113	ti	c 10.		,
1110	12		27.7	624		42	1.5	. /		
(113	14.5		27.7	6.26		123	• • •	703= 72	83ten	sample
SAN	IPLE IN	VENTO	RY		·· · · · · · · · · · · · · · · · · · ·			-		
Water	Level (ft. Bi	MP) Before S	ampling	. 1.5	O Rec	overy %;	8°7	Sa	ample Intake [Pepth (ft. BMP):
	1	Bettles C				Filtratio	n Prese	vation	Analysis	Remarks
Time	Volume			ss, plastic		(Y/N)	(ty	pe)		(quality control sample, other)
1114	1250		015	,	2	مرار			COPTER	
1114.	Quart	<u> </u>	Plagi	· •C ·	1	1	-		マリン	
	 						 			
	<u>. l</u>		41	203/	46204	l r	1	<u>_</u>		
Chain-o	f-Custody F	Record No			10207		a	acciii	lav Erial	& Gilman, Inc.
	•						11	iccuil	cy, i'l ick	a annian, no.
	(W Sample Form	MACACAD	Revised 8-8-8	5					

GRO	UND	WATE	R S/	AMPLI	ING R	ECO	RD	SAMP	LE N	UMBER	PAGE:of:! : MW-19D
Project !	No: 03022	29.2 Pr	oject Na	me: SPI	Arcata Sa	awmill					Date 8/2-703
		······································	-			Starting	Water Le	evel (ft. E	MP):	4.2	6
		tt Hillyard				Total D	epth (ft. B	MP):	1.66	Wate	r Column Height (ft.): 15-4
Measuri	ng Point (M	P) of Well:_	11	.0	- 	1					plication Factor: 0.163
Screene	ed interval (1	t.BGL):	15.0-20	.0		Casing	Volume (gal.):	- 5	2X:	> 3X 7.5 4X
Filter Pa	ick Interval	(fLBGL):	14.0-21	1.0		Water L	.evel (ft.B	MP) at E	nd of f	ourge:	6-01
Casing	Stick-Up/Do	wn (ft.):		-		Total D	epth (ft. B	MP) at E	nd of l	Purge:	
QUA	LITY AS	SURAN	ICE			-	-				•
METHO	DS (describ	e):	inav da	targant Pr	distilled w	otar calu	tion fall	owad b		ام سنسمم	w/ distilled water
	ing Equipm	OI IL			distined w	ater som		****			
_	·	sable Teflo			D		Samp	oling:		Disposab	le Teflon Bailer
,		arged Water			Drum	<u> </u>			······································		
		dicate make, virotech L		-	∕Iodel 150	0	72	w.w.m.a.i.a	. T 111	ramete	, l
		Ultram		atcimic r	·	<u> </u>					, 10
•	activity Mate	Ultra	meter			* : 		Calibrat			70 μmhos
Other	<u>-</u> -∩∠	5- 41	rame	ter				Calibrat			500 Ppm
		MEASU	REME	ENTS			11010				
Date/	Purgo Cita Cumul.Vol.	ractoristics		Water Qu	ality Data	iuctance	App	# & F & B C &		intake	<u> </u>
Time	(gai)	Purge Rate (gpm)	Temp (°C)	pH	(µmhos/ Field Temp	om)	Color	& Sedi		Depth (t. BMP)	Remarks
315	0		21,5	6.69			Clear	cle		(ar caur)	
318	2	-	18.3	6.59			Lawa-4	\$1.90			
320	¥		7.3	6.53		808	1×		/		
323	6		17-0	G.54		808	, (U			
325	7.5		17.0	651		810		T05€	56 Open		Sample
							······		- 11-		
SAM	IPLE IN	VENTO	RY					•			
Water	Level (ft. BN	MP) Before S	ampling	6.01	Rec	overy %:_	89	s	ample	Intake D	epth (ft. BMP):
T1	1	Bottles C			,	Filtration		rvation	Δn	alysis	Remarks
71me 325	Volume 125m		ittion (gla 1 e _{7 5} <	uss, plastic)	Quantity	(Y/N)	(ty	pe)			(quality control sample, other)
325	Quar	<u> </u>	, -1, , , 6'5'		1-7	N	 		PCF	7464 DS	
<i>- 10-7</i>	1		1 60 3	<i>' </i>	1	-	 		,	11.2	
							-				
Chain-o	f-Custody F	Record No		4620	24						
	- 						ħ.	/IcCul	lev.	Frick	& Gilman, Inc.
							••		3 5		and and an arrange of the second
L	(W Sample Form	MACACAD	Revised: 9-6-05							

-

APPENDIX B

Laboratory Report and Chain-of-Custody Records for Groundwater Samples



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

12 September 2003

MFG, Inc - Arcata

Attn: Ed Conti

875 Crescent Way

Arcata, CA 95521

RE: SPI - Arcata

Work Order: A308634

Enclosed are the results of analyses for samples received by the laboratory on 08/28/03 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cheryl Watson For Sheri L. Speaks

Project Manager

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Tetra Tech/MFG, Inc.



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CHEMICAL EXAMINATION REPORT

Page 1 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A308634

08/28/2003 14:30

MFGARC

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A308634-01	Water	08/27/03 13:36	08/28/03 14:30
MW-2	A308634-02	Water	08/27/03 13:49	08/28/03 14:30
MW-3	A308634-03	Water	08/27/03 15:03	08/28/03 14:30
MW-4	A308634-04	Water	08/27/03 15:40	08/28/03 14:30
MW-5	A308634-05	Water	08/27/03 16:14	08/28/03 14:30
MW-6	A308634-06	Water	08/27/03 16:30	08/28/03 14:30
∕IW-7	A308634-07	Water	08/27/03 16:43	08/28/03 14:30
AW-8	A308634-08	Water	08/27/03 10:10	08/28/03 14:30
ЛW-9	A308634-09	Water	08/27/03 10:50	08/28/03 14:30
ИW-10	A308634-10	Water	08/27/03 11:30	08/28/03 14:30
1W-11	A308634-11	Water	08/27/03 10:27	08/28/03 14:30
1W-12	A308634-12	Water	08/27/03 09:49	08/28/03 14:30
MW-13D	A308634-13	Water	08/27/03 14:12	08/28/03 14:30
∕IW-14	A308634-14	Water	08/27/03 15:51	08/28/03 14:30
ИW-15D	A308634-15	Water	08/27/03 14:39	08/28/03 14:30
MW-16D	A308634-16	Water	08/27/03 11:52	08/28/03 14:30
ИW-17	A308634-17	Water	08/27/03 12:59	08/28/03 14:30
ЛW-18	A308634-18	Water	08/27/03 11:14	08/28/03 14:30
MW-19D	A308634-19	Water	08/27/03 15:25	08/28/03 14:30
ЛW-A	A308634-20	Water	08/27/03 00:00	08/28/03 14:30
emp A	A308634-21	Water	08/27/03 00:00	08/28/03 14:30
Cemp C	A308634-22	Water	08/27/03 00:00	08/28/03 14:30

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Tetra Tech/MFG, Inc.

Cheryl Watson For Sheri L. Speaks Project Manager



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CHEMICAL EXAMINATION REPORT

Page 2 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44 Project No: 030229.2 Project ID: SPI - Arcata

Order Number A308634

Receipt Date/Time 08/28/2003 14:30 Client Code **MFGARC**

Client PO/Reference

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Cheryl Watson For Sheri L. Speaks

Project Manager

9/12/03

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CHEMICAL EXAMINATION REPORT

Page 3 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A308634

08/28/2003 14:30

MEGARC

A300034	08/28/2003 14:30		M	FGARC			
		Alpha A	Analytical	Laborato	ries, Inc.		
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL NOTE
MW-1 (A308634-01)			Sample Ty	pe: Water	——————————————————————————————————————	Sampled: 08/27/03 13:36	
Chlorinated Phenols by Canadi	an Pulp Method					•	
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0
2,3,5,6-Tetrachlorophenol	#	**		#	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	tr	"	"	n	u	ND "	1.0
2,3,4,5-Tetrachlorophenol	11	"	**	н	**	ND "	1.0
Pentachlorophenol	H	Ħ	11	H	n	ND "	1.0
Surrogate: Tribromophenol	"	"	"	"		101 % 79	-119
Conventional Chemistry Param	eters by APHA/EPA Me	ethods					
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	1400 mg/l	10
MW-2 (A308634-02)			Sample Ty	pe: Water		Sampled: 08/27/03 13:49	
Chlorinated Phenols by Canadi	an Pulp Method						
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0
2,3,5,6-Tetrachlorophenol		н	н	н	и	ND"	1.0
2,3,4,6-Tetrachlorophenol	II.	**	11	Ħ	"	ND"	1.0
2,3,4,5-Tetrachlorophenol	•	**	n	#	#	ND"	1.0
Pentachlorophenol	11	"	Ħ	H	н	ND"	1.0
Surrogate: Tribromophenol	n,	"	"	*		97.6% 79	-119
Conventional Chemistry Param	neters by APHA/EPA M	ethods					
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	760 mg/l	10
AW-3 (A308634-03)			Sample Ty	pe: Water		Sampled: 08/27/03 15:03	
Chlorinated Phenois by Canadi	an Pulp Method			_		•	
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0
2,3,5,6-Tetrachlorophenol	u	*	11	"	**	ND "	1.0
2,3,4,6-Tetrachlorophenol	Ħ	n	11	Ħ	#	ND "	1.0
2,3,4,5-Tetrachlorophenol	"		11	Ħ	11	ND"	1.0
Pentachlorophenol	и		11	H	n	ND"	1.0
Surrogate: Tribromophenol	"	"	et	ff.		79.1 % 79	RECEIVE

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Petra Tech/MFG, Inc.

Cheryl Watson For Sheri L. Speaks Project Manager



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CHEMICAL EXAMINATION REPORT

Page 4 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number A308634

Receipt Date/Time 08/28/2003 14:30

Client Code **MFGARC**

Client PO/Reference

Conventional Chemistry Parameters by APHA/EPA Methods Total Dissolved Solids EPA 160.1 Al30304 09/03/03 09/08/03 1	RESULT led: 08/27/03 15:03 470 mg/l led: 08/27/03 15:40 ND ug/l ND " ND "	PQL NO 10 1.0 1.0
Conventional Chemistry Parameters by APHA/EPA Methods Total Dissolved Solids EPA 160.1 AI30304 09/03/03 09/08/03 1 MW-4 (A308634-04) Sample Type: Water Sample Chlorinated Phenols by Canadian Pulp Method 2,4,6-Trichlorophenol EnvCan AI30309 09/02/03 09/03/03 1 2,3,5,6-Tetrachlorophenol """""""""""""""""""""""""""""""""""	470 mg/l led: 08/27/03 15:40 ND ug/l ND "	1.0 1.0
Conventional Chemistry Parameters by APHA/EPA Methods Total Dissolved Solids EPA 160.1 AI30304 09/03/03 09/08/03 1 MW-4 (A308634-04) Sample Type: Water Sample Chlorinated Phenols by Canadian Pulp Method 2,4,6-Trichlorophenol EnvCan AI30309 09/02/03 09/03/03 1 2,3,5,6-Tetrachlorophenol " " " " " " " " " " " " " " " " " " "	470 mg/l led: 08/27/03 15:40 ND ug/l ND "	1.0 1.0
MW-4 (A308634-04) Chlorinated Phenols by Canadian Pulp Method 2,4,6-Trichlorophenol 2,3,5,6-Tetrachlorophenol 2,3,4,6-Tetrachlorophenol 1	ND ug/l ND "	1.0 1.0
Chlorinated Phenols by Canadian Pulp Method 2,4,6-Trichlorophenol EnvCan Al30309 09/02/03 09/03/03 1 2,3,5,6-Tetrachlorophenol " " " " " " " " " 1 2,3,4,6-Tetrachlorophenol " " " " " " " " " 1 2,3,4,5-Tetrachlorophenol " " " " " " " " " " 1 Pentachlorophenol " " " " " " " " " " " " " " " " " " "	ND ug/I ND "	1.0
Chlorinated Phenols by Canadian Pulp Method 2,4,6-Trichlorophenol EnvCan Al30309 09/02/03 09/03/03 1 2,3,5,6-Tetrachlorophenol " " " " " " " " " " " " " " " " " " "	ND ug/I ND "	1.0
2,3,5,6-Tetrachlorophenol " " " " " " " " " " " " " " " " " " "	ND "	1.0
2,3,4,6-Tetrachlorophenol 2,3,4,5-Tetrachlorophenol Pentachlorophenol """ "" Surrogate: Tribromophenol "" "" Conventional Chemistry Parameters by APHA/EPA Methods	ND "	1.0
2,3,4,5-Tetrachlorophenol " " " " " " " " " " " " " " " " " " "	ND "	
Pentachlorophenol " " " " Surrogate: Tribromophenol " " " " Conventional Chemistry Parameters by APHA/EPA Methods		1.0
Surrogate: Tribromophenol " " " " Conventional Chemistry Parameters by APHA/EPA Methods	ND "	1.0
Conventional Chemistry Parameters by APHA/EPA Methods	ND "	1.0
	89.2 % 79-	119
Total Dissolved Solids EPA 160.1 AI30304 09/03/03 09/08/03 1		
	340 mg/l	10
MW-5 (A308634-05) Sample Type: Water Sample	ied: 08/27/03 16:14	
Chlorinated Phenols by Canadian Pulp Method		
2,4,6-Trichlorophenol EnvCan Al30309 09/02/03 09/03/03 1	ND ug/l	1.0
2,3,5,6-Tetrachlorophenol " " " "	ND"	1.0
2,3,4,6-Tetrachlorophenol " " " " "	ND "	1.0
2,3,4,5-Tetrachlorophenol	ND "	1.0
Pentachlorophenol " " " " "	ND"	1.0
Surrogate: Tribromophenol " " " "	107 % 79-	119

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9/12/03

Atra Tech/MFG, In

Cheryl Watson For Sheri L. Speaks Project Manager

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CHEMICAL EXAMINATION REPORT

Page 5 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2 Project ID: SPI - Arcata

Order Number A308634

Surrogate: Tribromophenol

Receipt Date/Time 08/28/2003 14:30

Client Code MFGARC

Client PO/Reference

	00/20/2003 14.30			FUARC				
		Alpha A	Analytical	Laborato	ries, Inc.			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-5 (A308634-05)			Sample Ty	pe: Water		Sampled: 08/27/03 16:14		
Conventional Chemistry Parame	ters by APHA/EPA M	ethods		•		2011 VO/27/03 10:14		
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	360 mg/l	10	
MW-6 (A308634-06)			Sample Ty	pe: Water		Sampled: 08/27/03 16:30		
Chlorinated Phenols by Canadian	n Pulp Method		•	,		544 prediction 27705 10.50		
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0	
2,3,5,6-Tetrachlorophenol	#	**	н	н		ND "	1.0	
2,3,4,6-Tetrachlorophenol	н	**	**	**		ND "	1.0	
2,3,4,5-Tetrachlorophenol	**	Ħ	**	*	17	ND "	1.0	
Pentachlorophenol		"	"		#	ND "	1.0	
Surrogate: Tribromophenol	"	n	,,	"		90.8 % 79-1		
Conventional Chemistry Paramet	ters by APHA/EPA M	ethods						
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	410 mg/l	10	
MW-7 (A308634-07)			Sample Ty	pe: Water		Sampled: 08/27/03 16:43		
Chlorinated Phenols by Canadian	1 Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.5	R-01
2,3,5,6-Tetrachlorophenol	11			Ħ		41 "	1.0	K-V
2,3,4,6-Tetrachlorophenol	"	"	Ħ	**		710 "	1.0	
2,3,4,5-Tetrachlorophenol	n	н	**		n	39 "	1.0	
Pentachlorophenol	*	**	"	n	*	31000 "	1.0	

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Tech/MFG, Inc.

79-119

Cheryl Watson For Sheri L. Speaks Project Manager

101 %

Alpha Analytical L

Alpha Analytical Laboratories Inc.

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CHEMICAL EXAMINATION REPORT

Page 6 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2 Project ID: SPI - Arcata

Order Number A308634 Receipt Date/Time

Client Code

Client PO/Reference

08/28/2003 14:30

/2003 14:30 MFGARC

	00/20/2003 14:30		M	rgarc				
		Alpha A	Analytical	Laborato	ries, Inc.			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-7 (A308634-07)			Sample Ty	pe: Water		Sampled: 08/27/03 16:43		
Conventional Chemistry Parame	eters by APHA/EPA Mo	ethods				•		
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	400 mg/l	10	
MW-8 (A308634-08)			Sample Ty	De: Water		Sampled: 08/27/03 10:10		
Chlorinated Phenols by Canadia	n Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0	
2,3,5,6-Tetrachlorophenol	H	**	Ħ	**	11	ND "	1.0	
2,3,4,6-Tetrachlorophenol	Ħ		*	n	11	ND "	1.0	
2,3,4,5-Tetrachlorophenol	"	*	**	H	11	ND "	1.0	
Pentachlorophenol	*		**	н	**	ND "	1.0	
Surrogate: Tribromophenol	"	"	"	"		104 % 79-	119	
Conventional Chemistry Parame	eters by APHA/EPA Mo	ethods						
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	370 mg/l	10	
MW-9 (A308634-09)			Sample Ty	pe: Water		Sampled: 08/27/03 10:50		
Chlorinated Phenols by Canadia	n Pulp Method			•		•		
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/i	1.0	
2,3,5,6-Tetrachlorophenol	n		**	н		ND"	1.0	
2,3,4,6-Tetrachlorophenol	H	*		**		ND"	1.0	
2,3,4,5-Tetrachlorophenol	Ħ	Ħ		Ħ	**	ND "	1.0	
Pentachlorophenol	H	*	"	11	"	ND"	1.0	
Surrogate: Tribromophenol	#	,,	"	n		88.0 % 79-	119	

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Tetra Tech/MFG, Inc.

Cheryl Watson For Sheri L. Speaks Project Manager



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CHEMICAL EXAMINATION REPORT

Page 7 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number A308634

Receipt Date/Time 08/28/2003 14:30 Client Code **MFGARC**

Client PO/Reference

		Alpha A	Analytical	Laborato	ries, Inc.			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-9 (A308634-09)			Sample Ty	pe: Water		Sampled: 08/27/03 10	:50	
Conventional Chemistry Parameter	s by APHA/EPA M	l ethods				-		
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	350 mg/l	10	
MW-10 (A308634-10)			Sample Ty	pe: Water		Sampled: 08/27/03 11	:30	
Chlorinated Phenols by Canadian P	ulp Method			•		•		
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/I	1.0	
2,3,5,6-Tetrachlorophenol	"	*	17	**	4	ND "	1.0	
2,3,4,6-Tetrachlorophenol	H	n	"	u	н	ND "	1.0	
2,3,4,5-Tetrachlorophenol	"	Ħ	17	**	11	ND "	1.0	
Pentachlorophenol	•	n	*	**	4	ND "	1.0	
Surrogate: Tribromophenol	"	#	"	"		89.2 %	79-119	
Conventional Chemistry Parameter	s by APHA/EPA N	1 ethods						
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	400 mg/l	10	
MW-11 (A308634-11)			Sample Ty	pe: Water		Sampled: 08/27/03 10	:27	
Chlorinated Phenols by Canadian P	ulp Method							
2,4,6-Trichlorophenol	EnvCan	A130309	09/02/03	09/03/03	1	ND ug/l	1.0	
2,3,5,6-Tetrachlorophenol	•	"	**	"		ND "	1.0	
2,3,4,6-Tetrachlorophenol	"	11	**	n		ND "	1.0	
2,3,4,5-Tetrachlorophenol		"	**	II .	u.	ND *	1.0	
Pentachlorophenol		н	**	•		ND "	1.0	
Surrogate: Tribromophenol	"	"		"		87.1 %	79-119	

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Tetra Tech/MFG, Inc.

Cheryl Watson For Sheri L. Speaks Project Manager



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CHEMICAL EXAMINATION REPORT

Page 8 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A308634

08/28/2003 14:30

MFGARC

		Alpha A	Analytical	Laborato	ries, Inc.			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-11 (A308634-11)			Sample Ty	pe: Water		Sampled: 08/27/03 10:2	27	
Conventional Chemistry Parameter	rs by APHA/EPA M	Sethods				-		
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	.1	440 mg/l	10	
MW-12 (A308634-12)			Sample Ty	pe: Water		Sampled: 08/27/03 09:	49	
Chlorinated Phenols by Canadian	Pulp Method			-		-		
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0	
2,3,5,6-Tetrachlorophenol	•	n	**		#	ND "	1.0	
2,3,4,6-Tetrachlorophenol	*		**	и	n	ND "	1.0	
2,3,4,5-Tetrachlorophenol	n	n	"	**	**	ND "	1.0	
Pentachlorophenol			"	11	"	ND "	1.0	
Surrogate: Tribromophenol	H	Ħ	п	"		104 %	79-119	
Conventional Chemistry Paramete	rs by APHA/EPA M	1ethods						
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	480 mg/l	10	
MW-13D (A308634-13)			Sample Ty	pe: Water		Sampled: 08/27/03 14:	12	
Chlorinated Phenols by Canadian	Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0	
2,3,5,6-Tetrachlorophenol	44	"		н	**	ND "	1.0	
2,3,4,6-Tetrachlorophenol	11	"	"	**	**	ND"	1.0	
2,3,4,5-Tetrachlorophenol	11	**	**	н		ND "	1.0	
Pentachlorophenol	17	н	11	#	•	ND "	1.0	
Surrogate: Tribromophenol	"	"	"	"		94.0 %	79-119	

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CHEMICAL EXAMINATION REPORT

Page 9 of 16

NOTE

PQL

10

1.0

1.0

1.0

1.0

1.0

79-119

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

ND"

ND"

92.4 %

Order Number A308634

Total Dissolved Solids

2,3,4,6-Tetrachlorophenol

2,3,4,5-Tetrachlorophenol

Receipt Date/Time 08/28/2003 14:30

Client Code **MFGARC**

Client PO/Reference

Alph	a Analytical Laborator	ies, Inc.
METHOD BATO	CH PREPARED ANALYZED	DILUTION RESULT
MW-13D (A308634-13)	Sample Type: Water	Sampled: 08/27/03 14:12
Conventional Chemistry Parameters by APHA/EPA Methods		•

EPA 160.1 AI30304 09/03/03 09/08/03 690 mg/l

MW-14 (A308634-14) Sample Type: Water Sampled: 08/27/03 15:51 Chlorinated Phenols by Canadian Pulp Method 2,4,6-Trichlorophenol EnvCan AI30309 09/02/03 09/03/03 ND ug/l 2,3,5,6-Tetrachlorophenol ND"

Pentachlorophenol ND" Surrogate: Tribromophenol

Conventional Chemistry Parameters by APHA/EPA Methods

Total Dissolved Solids EPA 160.1 AI30304 09/03/03 09/08/03 1900 mg/l 10

MW-15D (A308634-15)			Sample Ty	pe: Water	S	ampled: 08/27/03 1	4:39	
Chlorinated Phenols by Canadian P	ulp Method			•		•		
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0	
2,3,5,6-Tetrachlorophenol	**	"		44	**	ND "	1.0	
2,3,4,6-Tetrachlorophenol	"	"		ч	n	ND "	1.0	
2,3,4,5-Tetrachlorophenol	11	н	**	"	n	ND "	1.0	
Pentachlorophenol	11	"	**		**	ND "	1.0	
Surrogate: Tribromophenol	"	"	"	"		96.0%	70110	

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CHEMICAL EXAMINATION REPORT

Page 10 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2 Project ID: SPI - Arcata

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A308634

08/28/2003 14:30

MFGARC

		Alpha A	Analytical	Laborato	ries, Inc.			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-15D (A308634-15)			Sample Ty	pe: Water		Sampled: 08/27/03 14:39		
Conventional Chemistry Paramete	rs by APHA/EPA M	lethods				•		
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	810 mg/l	10	
MW-16D (A308634-16)			Sample Ty	pe: Water		Sampled: 08/27/03 11:52		
Chlorinated Phenols by Canadian	Pulp Method			-		•		
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0	
2,3,5,6-Tetrachlorophenol	u	H	ų	••	**	ND "	1.0	
2,3,4,6-Tetrachlorophenol	0	n	10		**	ND "	1.0	
2,3,4,5-Tetrachlorophenol	Ħ	"	11		**	ND "	1.0	
Pentachlorophenol	11	w	**	**	*	ND *	1.0	
Surrogate: Tribromophenol	#	"	"	. "		101 % 79-11	9	
Conventional Chemistry Paramete	rs by APHA/EPA M	Iethods						
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	3000 mg/l	10	
MW-17 (A308634-17)			Sample Ty	pe: Water		Sampled: 08/27/03 12:59		
Chlorinated Phenols by Canadian	Pulp Method					•		
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0	
2,3,5,6-Tetrachlorophenol		*	11	**	. "	ND "	1.0	
2,3,4,6-Tetrachlorophenol	"	**	11	••	"	ND "	1.0	
2,3,4,5-Tetrachlorophenol	#	n	Ħ	u	**	ND "	1.0	
Pentachlorophenol	"	#	14	**	#	ND "	1.0	
Surrogate: Tribromophenol	"	"	#	"		84.7 % 79-11	19	

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CHEMICAL EXAMINATION REPORT

Page 11 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number A308634

Receipt Date/Time 08/28/2003 14:30 Client Code

MFGARC

Client PO/Reference

		Alpha A	Analytical	Laborato	ries, Inc.		
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL NO
MW-17 (A308634-17)			Sample Ty	pe: Water		Sampled: 08/27/03 12:59	
Conventional Chemistry Parameter	rs by APHA/EPA M	Lethods				•	
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	420 mg/l	10
MW-18 (A308634-18)			Sample Ty	pe: Water		Sampled: 08/27/03 11:14	
Chlorinated Phenols by Canadian	Pulp Method			-		•	
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0
2,3,5,6-Tetrachlorophenol	11	H			**	ND "	1.0
2,3,4,6-Tetrachlorophenol	Ħ	"	**		"	ND "	1.0
2,3,4,5-Tetrachlorophenol	n	**	**	**	**	ND "	1.0
Pentachlorophenol	н		#1	**	11	ND "	1.0
Surrogate: Tribromophenol	"	#	"	"		82.7 % 79	9-119
Conventional Chemistry Paramete	rs by APHA/EPA M	1ethods					
Total Dissolved Solids	EPA 160.1	AI30304	09/03/03	09/08/03	1	520 mg/l	10
MW-19D (A308634-19)			Sample Ty	pe: Water		Sampled: 08/27/03 15:25	i
Chlorinated Phenols by Canadian	Pulp Method			•		•	
2,4,6-Trichlorophenol	EnvCan	AI30309	09/02/03	09/03/03	1	ND ug/l	1.0
2,3,5,6-Tetrachlorophenol	11	н		"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	Ħ	**	·	H	**	ND"	1.0
2,3,4,5-Tetrachlorophenol	Ħ	**	ų	11	н	ND"	1.0
Pentachlorophenol	ęr	"	"	n	*	ND"	1.0
Surrogate: Tribromophenol	"	"	"	"		85.1 % 75	9-119

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CHEMICAL EXAMINATION REPORT

Page 12 of 16

MFG. Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number

Receipt Date/Time

Client Code **MFGARC**

Client PO/Reference

A308634

08/28/2003 14:30

Alpha Analytical Laboratories, Inc. METHOD BATCH PREPARED ANALYZED DILUTION RESULT PQL NOTE MW-19D (A308634-19) Sample Type: Water Sampled: 08/27/03 15:25 Conventional Chemistry Parameters by APHA/EPA Methods **Total Dissolved Solids** EPA 160.1 AI30304 09/03/03 09/08/03 410 mg/l 10 MW-A (A308634-20) Sample Type: Water Sampled: 08/27/03 00:00 Chlorinated Phenols by Canadian Pulp Method AI30309 09/02/03 2,4,6-Trichlorophenol EnvCan 09/03/03 ND ug/l 1.0 2,3,5,6-Tetrachlorophenol 28 " 1.0 2,3,4,6-Tetrachlorophenol 450 " 1.0 2,3,4,5-Tetrachlorophenol 26 " 1.0 Pentachlorophenol 18000 " 1.0

Temp A (A308634-21)

Surrogate: Tribromophenol

Sample Type: Water

Sampled: 08/27/03 00:00

112%

79-119

Conventional Chemistry Parameters by APHA/EPA Methods

Temperature

Temperature

AI31213 08/28/03

08/28/03

7.0 °C

Temp C (A308634-22)

Sample Type: Water

Sampled: 08/27/03 00:00

Temperature

Conventional Chemistry Parameters by APHA/EPA Methods Temperature

AI31213

08/28/03

08/28/03

1

5.0 °C

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9/12/03



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CHEMICAL EXAMINATION REPORT

Page 13 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A308634

08/28/2003 14:30

MFGARC

SourceResult

Chlorinated Phenols by Canadian Pulp Method - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AI30309 - Solvent Extraction			•							
Blank (AI30309-BLK1)				Prepared:	09/02/03	Analyzed	: 09/03/03			
2,4,6-Trichlorophenol	ND	1.0	ug/l							
2,3,5,6-Tetrachlorophenol	ND	1.0	н							
2,3,4,6-Tetrachlorophenol	ND	1.0	H							
2,3,4,5-Tetrachlorophenol	ND	1.0	n							
Pentachlorophenol	ND	1.0	**							
Surrogate: Tribromophenol	25.5			24.9		102	79-119			
LCS (AI30309-BS1)				Prepared:	09/02/03	Analyzed	: 09/03/03			
2,4,6-Trichlorophenol	4.92	1.0	ug/l	5.00		98.4	81-120			
2,3,5,6-Tetrachlorophenol	4.88	1.0	Ħ	5.00		97.6	78-108			
2,3,4,6-Tetrachlorophenol	5.08	1.0	**	5.00		102	76-108			
2,3,4,5-Tetrachlorophenol	4.88	1.0	н	5.00		97.6	80-116			
Pentachlorophenol	4.76	1.0	н	5.00		95.2	86-109			
Surrogate: Tribromophenol	26.3		*	24.9		106	79-119			
Matrix Spike (AI30309-MS1)	Sou	rce: A308	634-01	Prepared	09/02/03	Analyzed	: 09/03/03			
2,4,6-Trichlorophenol	4.59	1.0	ug/l	5.00	ND	91.8	75-125	-		
2,3,5,6-Tetrachlorophenol	4.43	1.0	H	5.00	ND	88.6	69-115			
2,3,4,6-Tetrachlorophenol	4.57	1.0	Ħ	5.00	ND	91.4	66-117			
2,3,4,5-Tetrachlorophenol	4.55	1.0	**	5.00	ND	91.0	70-115			
Pentachlorophenol	4.33	1.0	*	5.00	ND	86.6	55-124			
Surrogate: Tribromophenol	24.0	-	*	24.9		96.4	79-119			
Matrix Spike Dup (AI30309-MSD1)	Sou	rce: A308	634-01	Prepared	: 09/02/03	Analyzed	l: 09/03/03			
2,4,6-Trichlorophenol	4.59	1.0	ug/l	5.00	ND	91.8	75-125	0.00	_20	-11 / /
2,3,5,6-Tetrachlorophenol	4.44	1.0		5.00	ND	88.8	69-115	0.225	ムアクロ	:IVE

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9/12/03



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CHEMICAL EXAMINATION REPORT

Page 14 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A308634

08/28/2003 14:30

MFGARC

Chlorinated Phenols by Canadian Pulp Method - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AI30309 - Solvent Extraction										
Matrix Spike Dup (AI30309-MSD1)	Soui	ce: A3080	634-01	Prepared:	00/02/03	Analyzad	. 00/02/02			
				i i opui va.	02/02/03	Allalyzcu	. 02/03/03			
2,3,4,6-Tetrachlorophenol	4.58	1.0	"	5.00	ND	91.6	66-117		20	
2,3,4,6-Tetrachlorophenol 2,3,4,5-Tetrachlorophenol	4.58 4.59						66-117	0.219	20	
•		1.0	u	5.00	ND	91.6			20 20 20	

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CHEMICAL EXAMINATION REPORT

Page 15 of 16

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Report Date: 09/12/03 14:44

Project No: 030229.2

Project ID: SPI - Arcata

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A308634

08/28/2003 14:30

MFGARC

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AI30304 - General Preparation		_					-			
Blank (AI30304-BLK1)				Prepared:	09/03/03	Analyzed	- 00/08/03			
Total Dissolved Solids	ND	10	mg/l		051.037.03	1 maryzea	. 07/00/03		····	
Duplicate (AI30304-DUP1)	Sou	rce: A308	634-14	Prepared:	09/03/03	Analyzed	: 09/08/03			
Total Dissolved Solids	1990	10	mg/l	··	1900			4.63	30	

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Cheryl Watson For Sheri L. Speaks Project Manager

9/12/03



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CHEMICAL EXAMINATION REPORT

Page 16 of 16

MFG, Inc - Arcata 875 Crescent Way Arcata, CA 95521 Attn: Ed Conti

Report Date: 09/12/03 14:44 Project No: 030229.2 Project ID: SPI - Arcata

Order Number A308634 Receipt Date/Time 08/28/2003 14:30

Client Code MFGARC Client PO/Reference

Notes and Definitions

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference
PQL Practical Quantitation Limit

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Tetra Tech/MFG, Inc.

	MFG, INC.	_		O	CHAII	Ž	Ę.	N-OF-CUSTODY	STC	Ď		RECORD	E E		AND	ᇤ	ಠ	REQUEST			FOR ANAI	LYSIS 6100	<u> </u>
Arcat 875 Cresce Arcata, CA Phone (707	# Arcata Office 875 Crescent Way Arcata, CA 95321-6741 Phone (707) 826-8430- FAX (707) 826-8437	☐ CA - Irvine 17770 Cartwright Rd. Sie, 500 Irvine, CA 92614 Tel (949) 253-2951 Fax (949) 253-2954	□CA - San Francisco 180 Howard St., Ste. 200 San Francisco. CA 94105 Tel (415) 495-7110 Fax (415) 495-7107	cisco t., Ste. 200 CA 94105 7110	□CO - Boulder 4900 Pearl East Cir. Ste. 300W Boulder, CO 80301 Tel (303) 447-1823 Fax (303) 447-1836	Boulder Pearl Ea OOW er, CO 8 03) 447-1	st Cir. 0301 1823 1836	DID - (DID - (Walk Walk Tel (2	☐ ID - Osburn PO Box 30 Wallace, ID 83873 Tel (208) 556-6811 Fax (208) 556-7271	873 811 7271	MT Miss Tel Fax	☐ MT - Missoula PO Box 7158 Missoula, MT 59807 Tel (406) 728-4600 Fax (406) 728-4698	ta 8 T 59807 3-4600 18-4698		☐ NJ - Edison 1090 King Georges Post Rd. Ste, 703 Edison, NJ 08837 Tel (732) 738-5701 Fax (732) 738-5711	Georges 08837 38-5707 38-5711	Post Rd						
	☐ OH - Portland 1020 SW Taylor St. Ste. 530 Portland, OH 97205 Tel (503) 228-8631 Fax (503) 228-8631	☐PA - Pittsburgh 800 Vinial St., Bidg, A Pittsburgh, PA 15212 Tel (412) 321-2278 Fax (412) 321-2283	☐ TX - Austin 4807 Spicewood Springs Pd. 8ldg. IV, ^{4le} Froor Austin. TX 78759 Tel (512) 338-1667 Fax (512) 338-1331	ood Springs P Froor 8759 8-1667 8-1331		☐TX - Ho 12337 . Ste. 23(Houstor Tel (281) Fax (28	JTX - Houston 12337 Jones Hd. Sie, 230 Houston, TX 77070 Tel (281) 890-5068 Fax (281) 890-5044	d. 070 044	☐ TX - Port Lavaca 320 East Main Port Lavaca. TX 77979 Tel (361) 552-8839 Fax (361) 553-6115	ort Lava ast Main avaca, T 31) 552-6 (61) 553-	ca X 77979 1839 6115		TX - Tex 1532 Su Texarkar Tel (903) Tax (903)	☐ TX - Texarkana 4532 Summerhill Rd. Texarkana, TX 75503 Tel (903) 794-0625 Fax (903) 794-0625	85 503 86 503	Ste. Cym Tel (Fax	Seattle 3 36th A 100 wood, W 425) 921 (425) 92	□WA - Seattle 19203 36th Ave. W. Ste. 100 Lynnwood WA 98036 Tel (425) 921-4000 Fax (425) 921-4040					
	PROJECT NO: 0302	14	2	PRO	PROJECT	NAME:	1	Ids	\ \	Arca	ata	_							PAGE	'	-	OF: 6	
	SAMPLER (Signature): METHOD OF SHIPMENT:		on ice			- ZARE	- PROJ NER∕	ECT WAYE	PROJECT MANAGER: CARRIER/WAYBILL NO:	GER O:	Ed	4	3	742	DES	NIL	DESTINATION:		DATE:	1	2/8	28/03	
				SAMPLES													AN/	\LYSIS	ANALYSIS REQUEST	JEST			
				Sample			Prese	Preservation	_		Containers	iners	O	Constituents/Method	ents/M	ethod	Η̈́	Handling			Remarks	rks	
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Tetra Tech/MFG, Inc.

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KArcat 875 Cresce Arcata, CA Phone (707	KArcata Office 875 Crescent Way Arcata, CA 95521-6741 Phone (707) 826-8430- FAX (707) 826-8437	☐ CA - Irvine 17770 Cartwright Rd. Ste. 500 Irvine CA 92614 Tel (949) 253-2951 Fax (949) 253-2954	☐CA - San Francisco 180 Howard St., She. 200 San Francisco, CA 94105 Tel (415) 495-7110 Fax (415) 496-7107	oisco L., Ste. 200 CA 94105 7110		□CO - Boulder 4900 Pearl East Cir. Ste. 300W Boulder, CO 80301 Tel (303) 447-1823 Fax (303) 447-1838	ast Cir. 80301 -1823 7-1836		☐ ID - Osburn PO Box 30 Wallace, ID 83873 Tel (208) 556-6811 Fax (208) 556-7271	33873 5-6811 6-7271	□ Mynager Mynager	☐ MT - Missoula PO Box 7158 Missoula, MT 59807 Tel (406) 728-4600 Fax (406) 728-4698	ыв 58 АТ 5980 28-4606 728-4696		4J - Ediso 090 King 3le 703 Edison, N el (732) ax (732)	☐NJ - Edison 1030 King Georges Post Rd. Ste. 703 Edison, NJ 08837 Tel (732) 738-5707 Fax (732) 738-5701	Post Rd					6	
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APPENDIX C

Waste Disposal Manifest for First and Second Quarter 2003

See Instructions on back of page 6.

Department of Toxic Substances Control Sacramento, California

•	UNIFORM HAZARDOUS	1. Generator's	US EPA ID No.	Manifest Docume	nt No.	2. Page 1		n in the shaded areas	
	WASTE MANIFEST	Game	[4]?[4]0]3[6]0	16 1 17 10	11.18	of i	is not requ	ired by Federal law.	
	3. Generator's Name and Mailing Address SIERRA PACIFIC INDUSTRIES - AF P.O. BOX 1189	RCATA	SITE 12593 NEW N	AVY BASE RO.	A. State	Manifest Document N	lumber	228176	15
	ARCATA 4. Generator's Phone (70/ 143-3111	CA	95518		B. State C	enerator's ID	1 1		
	5. Transporter 1 Company Name		6. US EPA ID Number		C. State T	ransporter's ID (Res	erved.]		
	ASBURY ENVIRONMENTAL SERVI	CES	C A D 0 2 0	21717191316	D. Transp	orter's Phone	(800)97	4.4445	<u> </u>
	7. Transporter 2 Company Name		8. US EPA ID Number			ransporter's ID (<u>Rese</u>		*****	<u> 1</u> 1
			1	1111	F. Transp	orter's Phone		<u> </u>	<u> </u>
	 Designated Facility Name and Site Address DEMENNO / KERDOON 		10. US EPA ID Number		G. State F	acility's ID			
	2000 NORTH ALAMEDA STREET COMPTON CA	90222	- (C (A (T (9 (8 (6)	0 ₁ 1 ₁ 3 ₁ 3 ₁ 5 ₁ 2	H. Facility	/s Phone 37-7100	<u></u>	a ya Ya	
	11. US DOT Description (including Proper Shippin			12. Ca	onlainers	13. Total	14. Unit	「みる」 191 現象に変数 191 19	je silve i je Vjetje je je
	G			No.	Туре	Quantity	Wt/Vol	I. Waste Number State 343	
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	J. Additional Descriptions for Materials Listed Abo							EPA/Other	
	11A) 208829, XG				K. Handlin a.	ng Codes for Wastes	Listed Abor	ve .	
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	15. Special Handling Instructions and Additional I USE PPE	ntormation	EMERG	ENCY CONTACT	CHEMTE	?FC 1.8W.424	-0300		
	NAERG #: 11A. 171				· On the light en	TEG PROPER	- Dunn		
	SITE: 2593 NEW NAVY BASE ROA		. , 24.	11215115		 .			
	 GENERATOR'S CERTIFICATION: I hereby dec marked, and labeled, and are in all respects 	lare that the conte in proper condition	ents of this consignment dre fu on for transport by highway o	lly and accurately descr according to applicable	ibed above b international	y proper shipping no and national gover	ame and are nment regul	classified, packed, lations.	
	If I am a large quantity generator, I certify the practicable and that I have selected the praction and the environment; OR, if I am a small quadvailable to me and that I can afford:	ICODIA MAMON OF	ifediment unrane or despai	el euceanth, evenilanta t					الماء
-	Printed/Typed Name 11100	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Signature	Messee	1		Mon	Doy Y	rear_3
	17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	Materials	Signature /				1 1	<u> </u>	<u></u>
	Unlliam non		NU	100			O F	Poy	(ear
	18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials	Signature				Mon	ath Day Y	fear
	19. Discrepancy Indication Space								<u> </u>
				٠					
-	20. Facility Owner or Operator Certification of rec Printed/Typed Name	eipt of hazardou	s materials covered by this m Signature	anifest except as noted	in Item 19.		Mon	ith Day Y	rear r
							1 71011		

DO NOT WRITE BELOW THIS LINE.

. 2281/615 in case of emergency or spill, call the national response center 1-800-424-8802; within california, call 1-800-852-7550