FORMER WASTE OIL UNDERGROUND STORAGE TANK ADDITIONAL INVESTIGATION REPORT

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

March 30, 2004

G

consulting
scientists and
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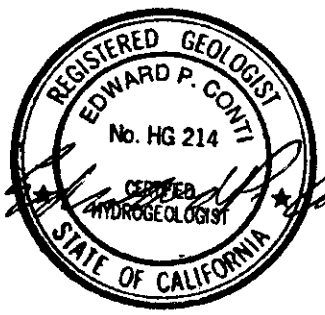
MFG Project No. 030229.14

PROFESSIONAL CERTIFICATION

This report was 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 were 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.



March 30, 2004

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1.0 INTRODUCTION

MFG, Inc. and Geomatrix Consultants, Inc. (Geomatrix) have prepared this report on behalf of Sierra Pacific Industries (SPI) to document additional soil and groundwater investigation related to a former waste oil underground storage tank (UST) at the SPI Arcata Division Sawmill. This work was performed in response to the discovery of soil and groundwater impacted with petroleum hydrocarbons in the immediate vicinity of the former waste oil UST during an investigation in April 2003. The Arcata Division Sawmill is located at 2593 New Navy Base Road, Arcata, California (hereinafter "the Site"). The Site location is shown in Figure 1. A Site plan showing the location of the former waste oil UST investigation area is presented in Figure 2. An enlargement of this portion of the Site, showing features of the former waste oil UST area, is presented in Figure 3.

This work was performed in accordance with the scope of work presented in MFG's *Waste Oil UST Additional Investigation Work Plan*, dated June 11, 2003, and the California Regional Water Quality Control Board, North Coast Region (RWQCB) work plan approval letter, dated July 10, 2003. The scope of work included the following activities: (1) drilling a minimum of six direct-push borings; (2) collection of soil samples for chemical analysis; (3) measurement of the depth to water at each boring; (4) collection of grab groundwater samples for chemical analysis; and (5) surveying of the relative vertical elevation of each boring to estimate the direction of groundwater flow. This report summarizes the methods and results of the implemented work plan.

The remainder of this report is organized as follows. The Site background is provided in Section 2.0. The Site geology and hydrogeology is described in Section 3.0. The soil sampling methods, chemical analysis methods and chemical analysis results are presented in Section 4.0. The evaluation of the lateral hydraulic gradient is presented in Section 5.0. The grab groundwater sampling methods, chemical analysis methods and chemical analysis results are presented in Section 6.0. The disposal of the investigation-derived waste is discussed in Section 7.0, and references cited in this report are listed in Section 8.0.

2.0 BACKGROUND

2.1 Site Description

The Site is located on the Samoa Peninsula in Arcata, Humboldt County, California (Figure 1). A Site plan showing features of the mill is included in Figure 2. The Site features in the area of the former waste oil UST are included in Figure 3.

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. The mill has been active from approximately 1950 to present day.

2.2 Former Waste Oil UST

In early 2003, MFG reviewed historical documents and interviewed various SPI employees that were knowledgeable about the Site's history and the historical use and location of a suspected waste oil UST. The location of the UST was estimated to be adjacent to the southwestern edge of the steam cleaning pad near the Truck Shop (Figure 3). The interviewed employees believed that the waste oil UST was taken out of service in the 1970s, but there were conflicting recollections as to whether it had been removed from the subsurface. There was no evidence of a UST at the ground surface.

On April 7, 2003, the out-of-service waste oil UST was discovered in-place during an investigation to evaluate the soil and groundwater quality in the vicinity of the suspected UST location. As a result, the waste oil UST was removed from the subsurface on April 22, 2003 along with approximately 430 gallons of groundwater and 18 cubic yards of soil that were impacted with petroleum hydrocarbons. A groundwater sample from boring WO-1 collected during the initial investigation and confirmation samples from the waste oil UST excavation indicated that residual petroleum hydrocarbons in soil and groundwater remained in the vicinity of the former waste oil UST (MFG, 2003).

3.0 SITE GEOLOGY AND HYDROGEOLOGY

The subsurface lithology and hydrogeology at the Site were 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 during previous drilling activities at the Site. The sand is sporadically interbedded with thin lenses of "bay mud," consisting of a mixture of sand and silt. The subsurface stratigraphy encountered during the additional investigation reported herein is described in Section 4.2.

In the eastern portion of the Site, groundwater has been measured in 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 vicinity of the former waste oil UST, groundwater was measured at a depth of approximately 1.7 feet bgl in temporary monitoring well WO-1 in April 2003 (MFG, 2003). In the eight borings drilled during the additional investigation reported herein, the depth to groundwater measured on July 24, 2003 ranged from approximately 3.5 to 5.2 feet bgl and the interpreted groundwater flow direction was to the south-southeast toward Humboldt Bay (Section 5.0).

4.0 SOIL SAMPLING METHODS AND RESULTS

4.1 Field Methods

Prior to drilling, MFG obtained a boring permit from the Humboldt County Division of Environmental Health (HCDEH). A copy of the HCDEH boring permit is presented in Appendix A. Underground Service Alert (USA) was contacted to mark the area for underground utilities and knowledgeable SPI personnel were consulted about the presence of underground utilities in the vicinity of the boring locations.

On July 24, 2003, eight soil borings (WO-3 through WO-10) were advanced to depths of approximately 10 feet below ground level (bgl). The boring locations are show in Figure 3. The soil borings were advanced using a direct-push drilling rig operated by Fisch Environmental Exploration Services (Fisch) of Valley Springs, California under the observation of MFG personnel. The direct-push drilling system advanced flush-threaded, 4-foot long, stainless steel drive casing with a 2 ¼-inch outer diameter (o.d.) into the subsurface to collect continuous soil cores. The soil was collected in clear, butyrate liners fitted inside the drive casing. Continuous soil coring was performed at each boring from approximately 1 to 10 feet bgl.

The soil encountered during drilling was described in the field for lithologic classification, color and moisture content in accordance with the American Society of Testing and Materials (ASTM) Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) D 2488-93. Indications of contamination, including observations regarding odor or staining, if any, were noted in the field on boring logs. The boring logs are included in Appendix B.

Headspace measurements of soil from each selected sample interval were made in the field using a Thermo-Environmental Instruments Model 580B portable photoionization detector (PID). The PID was calibrated using a 96 parts per million by volume (ppmv) isobutylene gas standard. The response factor of the PID was set such that the instrument would read in ppmv as isobutylene. To prepare the soil for headspace measurements, the soil was placed in a sealable plastic bag, the bag was sealed, and then the soil was broken up and agitated. The bag was allowed to stand for approximately 10 minutes, agitated again,

and then the PID probe was inserted into the bag. The highest PID reading was recorded for each selected sample and noted on the boring log opposite the respective sample interval (Appendix B).

Soil samples were selected from two depth intervals in each boring and preserved for chemical analysis. The soil samples for chemical analysis were generally selected at the depth interval corresponding to the approximate top of the saturated zone and the depth interval with the highest field indications of contamination, if any. If no field indications of contamination were noted, then the second soil sample from each boring was selected at a depth interval corresponding to a change in lithology. The 4-foot long butyrate liners were cut into smaller sections at the desired depth intervals. The ends of each section of liner were covered with Teflon® sheets, capped with polyethylene lids, and then sealed using duct tape. Additional soil was collected at the top or bottom of each sample interval using EnCore™ samplers. The samples were labeled, placed into individual Ziploc® bags, and immediately placed in an ice-cooled, insulated chest for transport to the laboratory. Chain-of-custody records were completed for the samples and accompanied the samples until receipt by the laboratory. Copies of the chain-of-custody records are included in Appendix C. The chemical analysis methods and results are presented in Sections 4.3 and 4.4.

Soil cuttings generated during drilling were placed in a 55-gallon, Department of Transportation (DOT)-approved steel drum that was sealed, labeled and temporarily stored at a secure location of the Site pending disposal (Section 7.0).

Reusable drilling and sampling equipment was decontaminated before and after use by washing in a solution of Liquinox® detergent and distilled water and then triple rinsing with distilled water. Equipment wash water was placed in a separate, 55-gallon, DOT-approved steel drum that was sealed, labeled and temporarily stored in a secure location of the Site pending disposal (Section 7.0).

The borings were subsequently backfilled with neat cement at the conclusion of groundwater sampling activities (Section 6.0).

4.2 Stratigraphy and Field Observations

The surface material encountered during drilling activities consisted of concrete, asphalt, baserock and sand with gravel to a depth of approximately 1 to 2 feet bgl. The surface material was underlain by sand with varying amounts of clay, silt and gravel to depths ranging from approximately 6 to 7 feet bgl in all the borings, except boring WO-7 where the sand layer extended to a depth of approximately 10 feet bgl, the maximum depth explored during drilling activities. In boring WO-3, clay was encountered at an approximate depth of 6 feet bgl; however, poor soil recovery at the corresponding depth interval resulted in limited lithologic information at this boring location. A thin peat layer was encountered at a depth of approximately 7 feet bgl in borings WO-4, WO-5, WO-6 and WO-8. The peat layer encountered in these borings and the sand encountered in borings WO-9 and WO-10 were underlain by silt to a depth of approximately 10 feet bgl, the maximum depth explored during drilling activities. The peat layer was not encountered in borings WO-3, WO-9 and WO-10; however, poor soil recovery at the corresponding depth intervals resulted in limited lithologic information at these three boring locations. Saturated soil was encountered at depths ranging from 3.5 to 5.2 feet bgl (Appendix B).

Stained soil and petroleum-like odors were noted in the soil collected from boring WO-3 (Appendix B). The PID readings from headspace measurements of the soil in the borings ranged from 0.0 to 4.0 ppmv (Appendix B).

4.3 Chemical Analysis Methods

The soil samples were submitted for chemical analysis to Alpha Analytical Laboratories Inc. (Alpha) of Ukiah, California, a laboratory certified by the California Department of Health Services (DHS). The samples were analyzed for the following constituents:

- Total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil using modified EPA Method 8015M with silica gel cleanup;
- Total purgeable petroleum hydrocarbons (TPPH) as gasoline using modified EPA Method 8015M;
- Volatile organic compounds (VOCs) using EPA Method 8260B/5035;
- Semi-volatile organic compounds (SVOCs) using EPA Method 8270D;

- Chlorinated phenols using the Canadian Pulp Method;
- Polychlorinated biphenyls (PCBs) using EPA Method 8080A; and
- Wear metals (cadmium, chromium, nickel, lead and zinc) and copper using EPA Method 6010B.

The chemical analysis results are summarized in Table 1. Copies of the laboratory report and chain-of-custody records are included in Appendix C.

4.4 Chemical Analysis Results

TEPH as diesel was detected in 13 soil samples at concentrations ranging from 1.2 to 110 milligrams per kilogram (mg/kg). However, the laboratory indicated that the chromatogram patterns for samples WO-3 (3.25-4.0'), WO-3 (6.0-6.5'), WO-5 (8.0-8.75') and WO-9 (8.0-8.75') did not resemble the diesel standard, and the diesel range organics detected in samples WO-4 (5.5-6.25'), WO-4 (8.5-9.25'), WO-5 (3.25-4.0'), WO-6 (4.5-5.25'), WO-8 (3.25-4.0') and WO-8 (6.0-6.75') were primarily due to overlap from a heavy oil range product (Table 1). TEPH as diesel was detected at a concentration exceeding 100 mg/kg (110 mg/kg) in only one sample (WO-3 (3.25 to 4.0')). TEPH as diesel was not detected at or above the laboratory reporting limit of 1.0 mg/kg in the remaining three soil samples (Table 1).

TEPH as motor oil was detected in all of the soil samples at concentrations ranging from 2.0 to 840 mg/kg. However, the laboratory indicated that the chromatogram patterns for samples WO-4 (8.5-9.25'), WO-5 (8.0-8.75'), WO-6 (9.0-9.75'), WO-7 (8.0-8.75'), WO-9 (8.0-8.75') and WO-10 (9.0-9.75') did not resemble the motor oil standard. TEPH as motor oil was detected at a concentration exceeding 100 mg/kg in only 4 samples. TEPH as motor oil was detected in one sample at a concentration of 840 mg/kg, and in the other three samples at concentrations of 130, 150 and 150 mg/kg (Table 1).

TPPH as gasoline was detected in eight soil samples at concentrations ranging from 1.1 to 9.9 mg/kg (Table 1). However, the laboratory indicated that the gasoline range organics detected in samples WO-4 (8.5'), WO-9 (4.0') and WO-10 (5.0') were primarily due to overlap from a diesel range product. TPPH as gasoline was not detected at or above the laboratory reporting limit in the remaining seven soil samples (Table 1).

The following VOCs were detected in the soil samples: acetone in 13 soil samples at concentrations ranging from 0.029 to 1.3 mg/kg; p-isopropyltoluene in one soil sample at a concentration of 0.0082 mg/kg; and methyl ethyl ketone in seven soil samples at concentrations ranging from 0.015 to 0.20 mg/kg (Table 1). No other VOCs were detected at or above their respective laboratory reporting limits (Table 1).

SVOCs, chlorinated phenols and PCBs were not detected at or above their respective laboratory reporting limits in any of the soil samples (Table 1).

Chromium was detected in all of the soil samples at concentrations ranging from 6.4 to 53 mg/kg, lead was detected in seven samples at concentrations ranging from 7.3 to 18 mg/kg, nickel was detected in fourteen samples at concentrations ranging from 11 to 80 mg/kg, zinc was detected in 12 samples at concentrations ranging from 14 to 57 mg/kg, and copper was detected in eight samples at concentrations ranging from 10 to 36 mg/kg. Cadmium was not detected in any of the samples at or above the laboratory reporting limit of 1.0 mg/kg.

5.0 EVALUATION OF LATERAL HYDRAULIC GRADIENT

On July 24, 2003, a temporary well was installed in each boring to an approximate depth of 10 feet below ground level (bgl) for the collection of water level readings and grab groundwater samples. The temporary wells were constructed of 1-inch diameter, flush-threaded, Schedule 40 PVC blank casing and screen with 0.010-inch slot size. The PVC screen was encased in pre-packed silica sand filter sleeves. The blank casing extended to a depth of approximately 1 foot bgl and the screened interval extended from approximately 1 to 10 feet bgl.

After installation, the temporary wells were developed by removing groundwater using a peristaltic pump and dedicated polyethylene tubing. During development, the temperature, pH and specific conductance of the purge water were measured periodically. Well development continued until the water quality parameters stabilized and the groundwater removed from the wells was relatively free of sediment. Approximately three casing volumes of groundwater were removed from each of the temporary wells during the development process, except in the temporary wells at borings WO-4, WO-6 and WO-8, which went dry.

After development, the water levels in each boring were allowed to equilibrate to static levels prior to obtaining water level readings. The depth to water was measured in each temporary well using an electronic water level probe. The depth-to-water measurements in the temporary wells ranged from 4.00 to 6.62 feet below the top of casing and 3.47 to 5.23 feet bgl (Table 2).

The relative elevation of the top of casing at each temporary well was surveyed by MFG using standard surveying equipment. A stationary metal pipe on the northwestern side of the bathroom was selected as an arbitrary benchmark and assigned an elevation of 100.00 feet. Water level elevations were then calculated using the depth-to-water measurements and the surveyed elevations of the tops of the casings of the temporary wells. Based on the arbitrary datum, the calculated water level elevations in the temporary wells ranged from 92.33 to 93.76 feet (Table 2).

Based on the interpreted potentiometric surface, the groundwater flow direction in the vicinity of the former waste oil UST was to the south-southeast, toward Humboldt Bay, with a magnitude of approximately 0.012 foot/foot (Figure 4).

6.0 GROUNDWATER SAMPLING METHODS AND RESULTS

6.1 Field Methods

On July 24, 2003, the temporary wells were sampled using a peristaltic pump and dedicated polyethylene tubing. The groundwater samples from each temporary well were placed in the following containers supplied by the laboratory: three 1-liter (L) amber glass jars sealed with Teflon®-lined screw caps; six 40-milliliter (ml) glass vials containing hydrochloric acid for sample preservation and sealed with screw caps with Teflon®-lined septa; and one 4-ounce glass vial sealed with a Teflon®-lined screw cap. The sample containers were labeled and immediately placed in an ice-cooled, insulated chest for transport to the laboratory. Chain-of-custody records were completed for the samples and accompanied the samples until receipt by the laboratory. Copies of the chain-of-custody records are provided in Appendix D.

All equipment used to collect the groundwater samples was dedicated or did not come into contact with the groundwater during sampling; therefore, no wash water was generated for disposal.

After completion of the groundwater sampling activities, the temporary wells and silica sand filter sleeves were removed from the borings. The borings were subsequently grouted with neat cement using a tremie pipe.

6.2 Field Observations

A slight petroleum-like odor was noted in the purge water from boring WO-3 during development and sampling activities.

6.3 Chemical Analysis Methods

The groundwater samples were submitted for chemical analysis to Alpha Analytical Laboratories Inc. (Alpha) of Ukiah, California, a laboratory certified by the California Department of Health Services (DHS). The samples were analyzed for the following constituents:

- Total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil using modified EPA Method 8015 with silica gel cleanup;
- Total purgeable petroleum hydrocarbons (TPPH) as gasoline using modified EPA Method 8015;
- Volatile organic compounds (VOCs) using EPA Method 8260B;
- Semi-volatile organic compounds (SVOCs) using EPA Method 8270D;
- Chlorinated phenols using the Canadian Pulp Method; and
- Polychlorinated biphenyls (PCBs) using EPA Method 8080A.

Copies of the laboratory report and chain-of-custody records are included in Appendix D. The chemical analysis results are summarized in Table 3.

6.4 Chemical Analysis Results

TEPH as diesel was detected in the groundwater samples from all eight temporary wells at concentrations ranging from 63 to 1,100 micrograms per liter (µg/L). However, the laboratory indicated that the chromatogram patterns for samples WO-9-GW (210 µg/L) and WO-10-GW (190 µg/L) did not resemble the diesel standard. TEPH as diesel was detected in one sample (WO-3-GW) at a concentration of 1,100 µg/L; the concentrations detected in the seven other samples ranged from 63 to 210 µg/L. At temporary well WO-10, located approximately 30 feet downgradient of WO-3, TEPH as diesel was detected at a concentration of 190 µg/L.

TEPH as motor oil was detected in the groundwater samples from temporary wells WO-3 WO-5, WO-6, WO-8 and WO-9 at concentrations ranging from 120 to 9,100 µg/L. However, the laboratory indicated that the chromatogram pattern for sample WO-9-GW (150 µg/L) did not resemble the motor oil standard. TEPH as motor oil was detected in one sample (WO-3-GW) at a concentration of 9,100 µg/L; the concentrations detected in the four other samples ranged from 120 to 230 µg/L. TEPH as motor oil was not detected at or above the laboratory reporting limit of 110 µg/L in the remaining three groundwater samples. At temporary well WO-10, located approximately 30 feet downgradient of WO-3, TEPH as motor oil was not detected at or above the laboratory reporting limit.

TPPH as gasoline was not detected at or above the laboratory reporting limit of 50 µg/L in any of the groundwater samples (Table 3).

The VOC acetone was detected in the groundwater sample from temporary well WO-7 at a concentration of 120 µg/L. No other VOCs were detected at or above their respective laboratory reporting limits in any of the groundwater samples (Table 3).

The following SVOCs were detected in the groundwater samples: benzoic acid at a concentration of 57 µg/L in the groundwater sample from temporary well WO-4; 3 &/or 4-methylphenol at a concentration of 11 µg/L in the groundwater sample from temporary well WO-9; and phenol at concentrations ranging from 11 to 130 µg/L in seven groundwater samples. No other SVOCs were detected at or above their respective laboratory reporting limits (Table 3).

Chlorinated phenols and PCBs were not detected at or above their respective laboratory reporting limits in any of the groundwater samples (Table 3).

7.0 DISPOSAL OF INVESTIGATION-DERIVED WASTE

The soil cuttings generated during this investigation were placed in a 55-gallon, DOT-approved steel drum that was sealed, labeled and temporarily stored at a secure location of the Site. In September 2003, the soil cuttings in the drum were emptied into the storage bin containing soil from the former plywood covered ditch excavation conducted in July and August 2003 (MFG and Geomatrix, 2004). The storage bin containing soil from both activities was removed from the Site on September 11, 2003 by Asbury Environmental Services and transported to Altamont Landfill in Livermore, California for disposal. A copy of the Non-Hazardous Waste Manifest is included in Appendix E.

The purge water and equipment wash water generated during this investigation was placed in a 55-gallon, DOT-approved steel drum that was sealed, labeled and temporarily stored at a secure location of the Site. The drum was 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 was discharged to the Los Angeles Sanitation District sewer system. A copy of the Uniform Hazardous Waste Manifest for this shipment, which also included four additional 55-gallon drums associated with other investigations at the Site, is included in Appendix E.

8.0 REFERENCES

Environet Consulting (Environet), 2003, *Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California*: January 30.

MFG, Inc., 2003, *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. and Geomatrix Consultants, Inc. (Geomatrix), 2004, *Plywood Covered Ditch Soil Excavation Report, Sierra Pacific Industries, Arcata Division Sawmill, 2593 New Navy Base Road, Arcata California*: March 30.

TABLES

TABLE 1

SUMMARY OF CHEMICAL ANALYSES OF SOIL SAMPLES COLLECTED FROM BORINGS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

							VOCs					CHLORINATED PHENOLS											
SAMPLE ID	SAMPLE DEPTH (feet bgl)	SAMPLE DATE	LITHOLOGY	TEPH AS DIESEL (mg/kg)	TEPH AS MOTOR OIL (mg/kg)	TPPH AS GASOLINE (mg/kg)	ACETONE (mg/kg)	p-ISO-PROPYL-TOLUENE (mg/kg)	MEK (mg/kg)	OTHER VOCs (mg/kg)	SVOCs (mg/kg)	2,4,6-TRI-CHLORO-PHENOL (mg/kg)	2,3,5,6-TCP (mg/kg)	2,3,4,6-TCP (mg/kg)	2,3,4,5-TCP (mg/kg)	PCP (mg/kg)	PCBs (mg/kg)	CADMIUM (mg/kg)	CHROMIUM (mg/kg)	COPPER (mg/kg)	NICKEL (mg/kg)	LEAD (mg/kg)	ZINC (mg/kg)
WO-3 (4.0')	4.0	24-Jul-03	SAND	--	--	1.1	0.10	< 0.0050	0.015	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-3 (3.25-4.0')	3.25-4.0	24-Jul-03	SAND	110 [1]	99	--	--	--	--	--	< 3.3-16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	48	29	54	12	53
WO-3 (6.0-6.5')	6.0-6.5	24-Jul-03	CLAY	82 [1]	150	--	--	--	--	--	< 3.3-16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20-0.80	< 1.0	47	26	60	13	51
WO-4 (5.5')	5.5	24-Jul-03	SAND	--	--	2.3	0.029	< 0.0050	< 0.015	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-4 (5.5-6.25')	5.5-6.25	24-Jul-03	SAND	62 [2]	840	--	--	--	--	--	< 33-160	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	33	22	36	10	38
WO-4 (8.5')	8.5	24-Jul-03	SILT	--	--	2.3 [3]	1.3	< 0.0084	0.15	< 0.0084-0.017	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-4 (8.5-9.25')	8.5-9.25	24-Jul-03	SILT	6.4 [2]	94 [4]	--	--	--	--	--	< 1.6-8.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	6.4	< 10	< 10	< 5.0	< 10
WO-5 (3.25')	3.25	24-Jul-03	SAND	--	--	3.1	0.13	0.0082	0.018	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-5 (3.25-4.0')	3.25-4.0	24-Jul-03	SAND	16 [2]	130	--	--	--	--	--	< 1.6-8.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	52	31	80	8.5	47
WO-5 (8.0')	8.0	24-Jul-03	SILT	--	--	< 1.1	0.96	< 0.0091	0.20	< 0.0091-0.018	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-5 (8.0-8.75')	8.0-8.75	24-Jul-03	SILT	1.2 [1]	50 [4]	--	--	--	--	--	< 1.6-8.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	15	< 10	11	< 5.0	< 10
WO-6 (4.5')	4.5	24-Jul-03	SAND	--	--	1.2	0.19	< 0.0050	0.027	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-6 (4.5-5.25')	4.5-5.25	24-Jul-03	SAND	18 [2]	99	--	--	--	--	--	< 0.33-1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	43	13	41	7.3	30
WO-6 (9.0')	9.0	24-Jul-03	SILT	--	--	< 1.0	0.090	< 0.0050	< 0.015	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-6 (9.0-9.75')	9.0-9.75	24-Jul-03	SILT	< 1.0	2.2 [4]	--	--	--	--	--	< 0.33-1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	39	< 10	31	< 5.0	16
WO-7 (4.0')	4.0	24-Jul-03	SAND	--	--	< 1.0	0.17	< 0.0050	0.018	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-7 (4.0-4.75')	4.0-4.75	24-Jul-03	SAND	< 1.0	2.0	--	--	--	--	--	< 0.33-1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	53	< 10	38	< 5.0	24
WO-7 (8.0')	8.0	24-Jul-03	SAND	--	--	< 1.0	0.066	< 0.0050	< 0.015	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-7 (8.0-8.75')	8.0-8.75	24-Jul-03	SAND	7.3	44 [4]	--	--	--	--	--	< 1.6-8.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	9.9	< 10	< 10	< 5.0	< 10
WO-8 (3.25')	3.25	24-Jul-03	SAND	--	--	< 1.0	0.064	< 0.0050	< 0.015	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-8 (3.25-4.0')	3.25-4.0	24-Jul-03	SAND	2.1 [2]	8.0	--	--	--	--	--	< 0.33-1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	27	< 10	29	< 5.0	20
WO-8 (6.0')	6.0	24-Jul-03	SAND	--	--	3.0	0.081	< 0.0050	< 0.015	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-8 (6.0-6.75')	6.0-6.75	24-Jul-03	SAND	19 [2]	74	--	--	--	--	--	< 1.6-8.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	20	36	22	18	50
WO-9 (4.0')	4.0	24-Jul-03	SAND	--	--	4.3 [3]	< 3.5	< 0.87	< 2.6	< 0.87-1.7	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-9 (4.0-4.75')	4.0-4.75	24-Jul-03	SAND	24	28	--	--	--	--	--	< 0.33-1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	30	10	34	< 5.0	27
WO-9 (8.0')	8.0	24-Jul-03	SILT	--	--	< 1.0	1.0	< 0.0088	0.16	< 0.0088-0.018	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-9 (8.0-8.75')	8.0-8.75	24-Jul-03	SILT	1.2 [1]	37 [4]	--	--	--	--	--	< 0.33-1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	27	< 10	15	< 5.0	< 10

TABLE 1

SUMMARY OF CHEMICAL ANALYSES OF SOIL SAMPLES COLLECTED FROM BORINGS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

							VOCs					CHLORINATED PHENOLS												
SAMPLE ID	SAMPLE DEPTH (feet bgl)	SAMPLE DATE	LITHOLOGY	TEPH AS DIESEL (mg/kg)	TEPH AS MOTOR OIL (mg/kg)	TPPH AS GASOLINE (mg/kg)	ACETONE (mg/kg)	p-ISO-PROPYL-TOLUENE (mg/kg)	MEK (mg/kg)	OTHER VOCs (mg/kg)	SVOCs (mg/kg)	2,4,6-TRI-CHLORO-PHENOL (mg/kg)	2,3,5,6-TCP (mg/kg)	2,3,4,6-TCP (mg/kg)	2,3,4,5-TCP (mg/kg)	PCP (mg/kg)	PCBs (mg/kg)	CADMIUM (mg/kg)	CHROMIUM (mg/kg)	COPPER (mg/kg)	NICKEL (mg/kg)	LEAD (mg/kg)	ZINC (mg/kg)
WO-10 (5.0')	5.0	24-Jul-03	SAND	--	--	9.9 [3]	< 4.5	< 1.1	< 3.3	< 1.1-3.3	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-10 (5.0-5.75')	5.0-5.75	24-Jul-03	SAND	42	150	--	--	--	--	--	< 3.3-16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	19	22	22	12	57
WO-10 (9.0')	9.0	24-Jul-03	SILT	--	--	< 1.0	0.10	< 0.0050	< 0.015	< 0.0050-0.010	--	--	--	--	--	--	--	--	--	--	--	--	--
WO-10 (9.0-9.75')	9.0-9.75	24-Jul-03	SILT	< 1.0	6.5 [4]	--	--	--	--	--	< 0.33-1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	30	< 10	22	< 5.0	14

NOTES:

TEPH	Total extractable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 with silica gel cleanup and quantified against diesel and motor oil standards.
TPPH	Total purgeable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 and quantified against a gasoline standard.
VOCs	Volatile organic compounds. Analyzed using EPA Method 8260B/5035.
MEK	Methyl ethyl ketone.
SVOCs	Semi-volatile organic compounds. Analyzed using EPA Method 8270D.
TCP	Tetrachlorophenol.
PCP	Pentachlorophenol.
PCBs	Polychlorinated biphenyls. Analyzed using EPA Method 8080A. Target analytes included PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-1248, PCB-1254, PCB-1260 and PCB-1262.
bgl	Below ground level.
mg/kg	Milligrams per kilogram.
<	Target analyte was not detected at or above the laboratory reporting limit shown.
--	Not analyzed.
1.	The laboratory indicated that the chromatogram pattern contains resolved peaks within the diesel range that do not resemble diesel.
2.	The laboratory indicated that the results in the diesel organics range are primarily due to overlap from a heavy oil range product.
3.	The laboratory indicated that the results in the gasoline organics range are primarily due to overlap from a diesel range product.
4.	The laboratory indicated that the chromatogram pattern contains resolved peaks within the motor oil range that do not resemble motor oil.

Chlorinated phenols were analyzed using the Canadian Pulp Method.
Metals were analyzed using EPA Method 6010B.

TABLE 2

WATER LEVEL ELEVATIONS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

BORING NO.	MEASUREMENT DATE	TOP OF CASING ELEVATION [1] (feet above arbitrary datum)	DEPTH TO WATER (feet bTOC)	DEPTH TO WATER (feet bgl)	WATER LEVEL ELEVATION (feet above arbitrary datum)
WO-3	24-Jul-03	98.56	6.16	5.20	92.40
WO-4	24-Jul-03	100.38	6.62	4.03	93.76
WO-5	24-Jul-03	97.14	4.00	3.47	93.14
WO-6	24-Jul-03	98.69	6.24	4.52	92.45
WO-7	24-Jul-03	98.06	4.43	4.30	93.63
WO-8	24-Jul-03	98.40	5.31	4.16	93.09
WO-9	24-Jul-03	98.23	5.79	5.23	92.44
WO-10	24-Jul-03	98.65	6.32	4.97	92.33

NOTES:
bTOC Below top of casing.
bgl Below ground level.
1. Top of casing elevations are referenced to an arbitrary datum using an elevation benchmark of 100.00 feet at a metal pipe on the northwestern side of the bathroom.

TABLE 3

SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES COLLECTED FROM BORINGS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

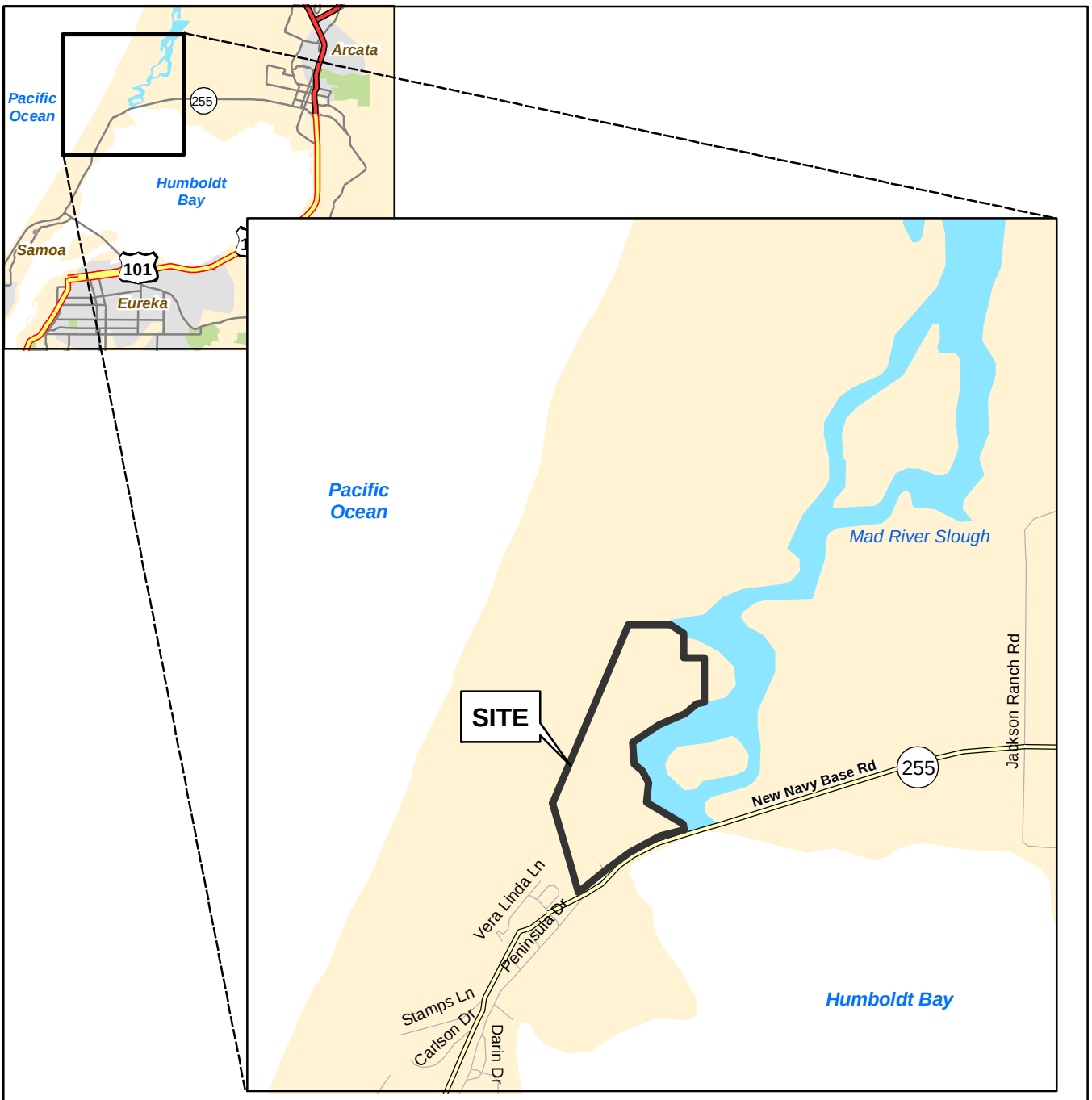
						VOCs		SVOCs				CHLORINATED PHENOLS												
SAMPLE ID	SAMPLE DATE	OIL & GREASE (µg/L)	TEPH AS DIESEL (µg/L)	TEPH AS MOTOR OIL (µg/L)	TPPH AS GASOLINE (µg/L)	ACETONE (µg/L)	OTHER VOCs (µg/L)	BENZOIC ACID (µg/L)	3 &/or 4-METHYL-PHENOL (µg/L)	PHENOL (µg/L)	OTHER SVOCs (µg/L)	2,4,6-TRI-CHLORO-PHENOL (µg/L)	2,3,5,6-TCP (µg/L)	2,3,4,6-TCP (µg/L)	2,3,4,5-TCP (µg/L)	PCP (µg/L)	PCP [1] (µg/L)	TOTAL PCBs [1] (µg/L)	PCBs [2] (µg/L)	CADMIUM (µg/L)	CHROMIUM (µg/L)	NICKEL (µg/L)	LEAD (µg/L)	ZINC (µg/L)
WO-1-GW [3]	08-Apr-03	< 5,000	200	290	< 50	< 50	< 3.0-10	< 50	< 10	< 10	< 10-50	--	--	--	--	--	< 50	< 100	--	< 10	< 50	< 100	< 50	< 100
WO-2-GW [4]	08-Apr-03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WO-3-GW	24-Jul-03	--	1,100	9,100	< 50	< 100	< 6.0-20	< 50	< 10	< 10	< 10-50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 0.20-1.0	--	--	--	--	--
WO-4-GW	24-Jul-03	--	63	< 110	< 50	< 50	< 3.0-10	57	< 10	33	< 10-50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 0.20	--	--	--	--	--
WO-5-GW	24-Jul-03	--	97	230	< 50	< 500	< 30-100	< 50	< 10	18	< 10-50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 0.20	--	--	--	--	--
WO-6-GW	24-Jul-03	--	98	120	< 50	< 500	< 30-100	< 50	< 10	130	< 10-50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 0.20-0.80	--	--	--	--	--
WO-7-GW	24-Jul-03	--	210	< 110	< 50	120	< 6.0-20	< 50	< 10	22	< 10-50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 0.20	--	--	--	--	--
WO-8-GW	24-Jul-03	--	94	210	< 50	< 50	< 3.0-10	< 50	< 10	17	< 10-50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 0.20	--	--	--	--	--
WO-9-GW	24-Jul-03	--	210 [5]	150 [6]	< 50	< 100	< 6.0-20	< 50	11	26	< 10-50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 0.20	--	--	--	--	--
WO-10-GW	24-Jul-03	--	190 [5]	< 110	< 50	< 500	< 30-100	< 50	< 10	11	< 10-50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 0.20	--	--	--	--	--

NOTES:

TEPH	Total extractable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 with silica gel cleanup and quantified against diesel and motor oil standards.
TPPH	Total purgeable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 and quantified against a gasoline standard.
VOCs	Volatile organic compounds. Analyzed using EPA Method 8260B.
SVOCs	Semi-volatile organic compounds. Analyzed using EPA Method 8270D.
TCP	Tetrachlorophenol.
PCP	Pentachlorophenol.
PCBs	Polychlorinated biphenyls.
µg/L	Micrograms per liter.
NS	Not sampled.
<	Target analyte was not detected at or above the laboratory reporting limit shown.
--	Not analyzed.
1.	Analyzed using EPA Method 8270D.
2.	Analyzed using EPA Method 8080A. Target analytes were PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-1248, PCB-1254, PCB-1260 and PCB-1262.
3.	Sample WO-1-GW collected from a temporary monitoring well located approximately 6 feet southeast of the former UST (Figure 3).
4.	Encountered the waste oil UST during drilling of the boring; therefore, no groundwater sample was collected.
5.	The laboratory report indicated that the chromatogram pattern contains resolved peaks within the diesel range that do not resemble diesel.
6.	The laboratory report indicated that the chromatogram pattern contains resolved peaks within the motor oil range that do not resemble motor oil.

Oil and Grease was analyzed using EPA Method 1664A with silica gel cleanup.
Chlorinated phenols were analyzed using the Canadian Pulp Method.
Metals (dissolved) were analyzed using EPA Method 6010B.

FIGURES



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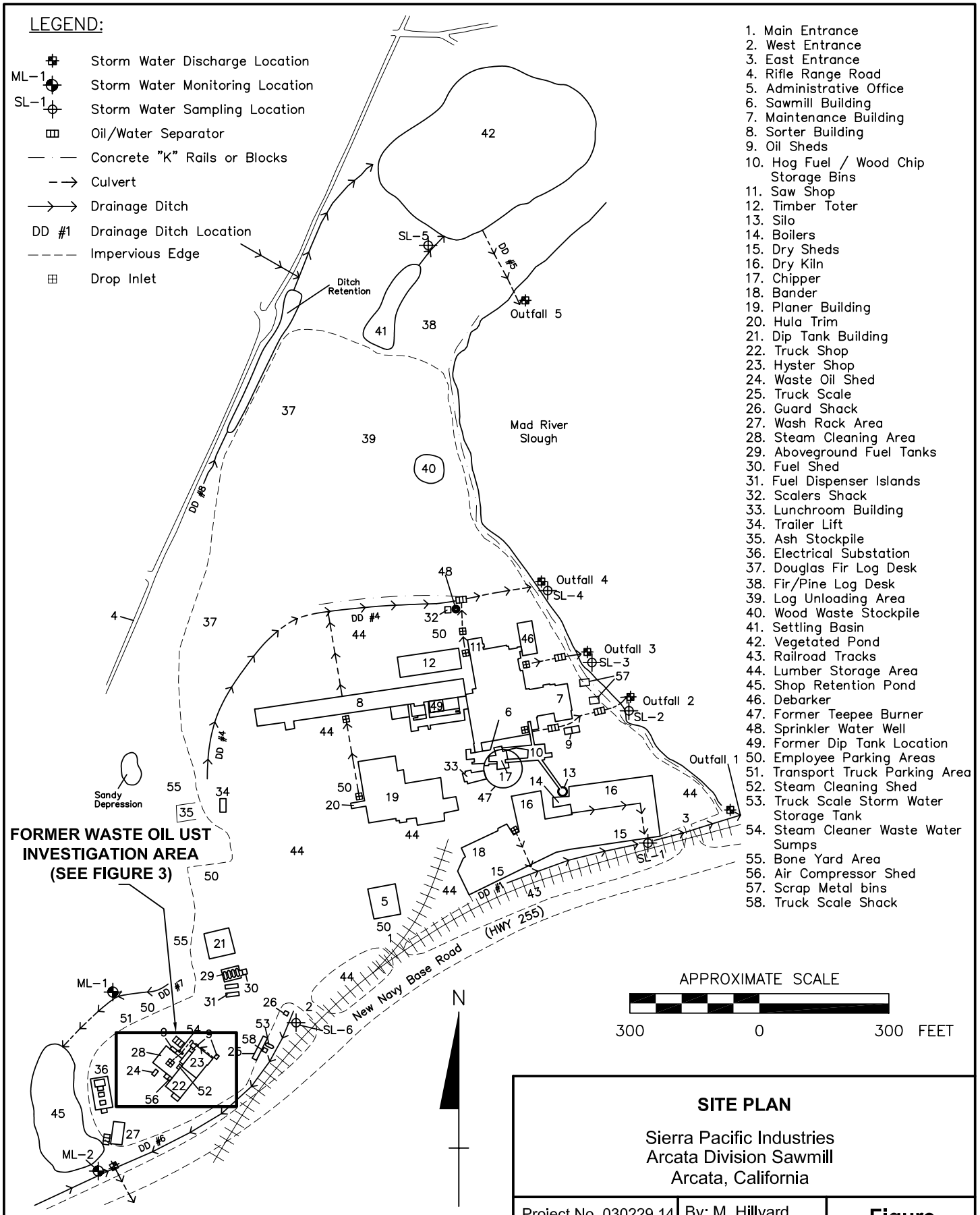
GEOMATRIX

SITE LOCATION MAP
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No.
9329

Figure No.
1

J:\030229\Task 14\Report\Figures\Arcata site plan.dwg PLOT SCALE 1:1



NOTES:
Site plan modified from Plate 2B in *Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California*, dated January 30, 2003, prepared by Environet Consulting.
Building dimensions and locations are approximate.

SITE PLAN

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229.14	By: M. Hillyard	**Figure 2**
Date: Nov. 11, 2003	Checked: CGS	

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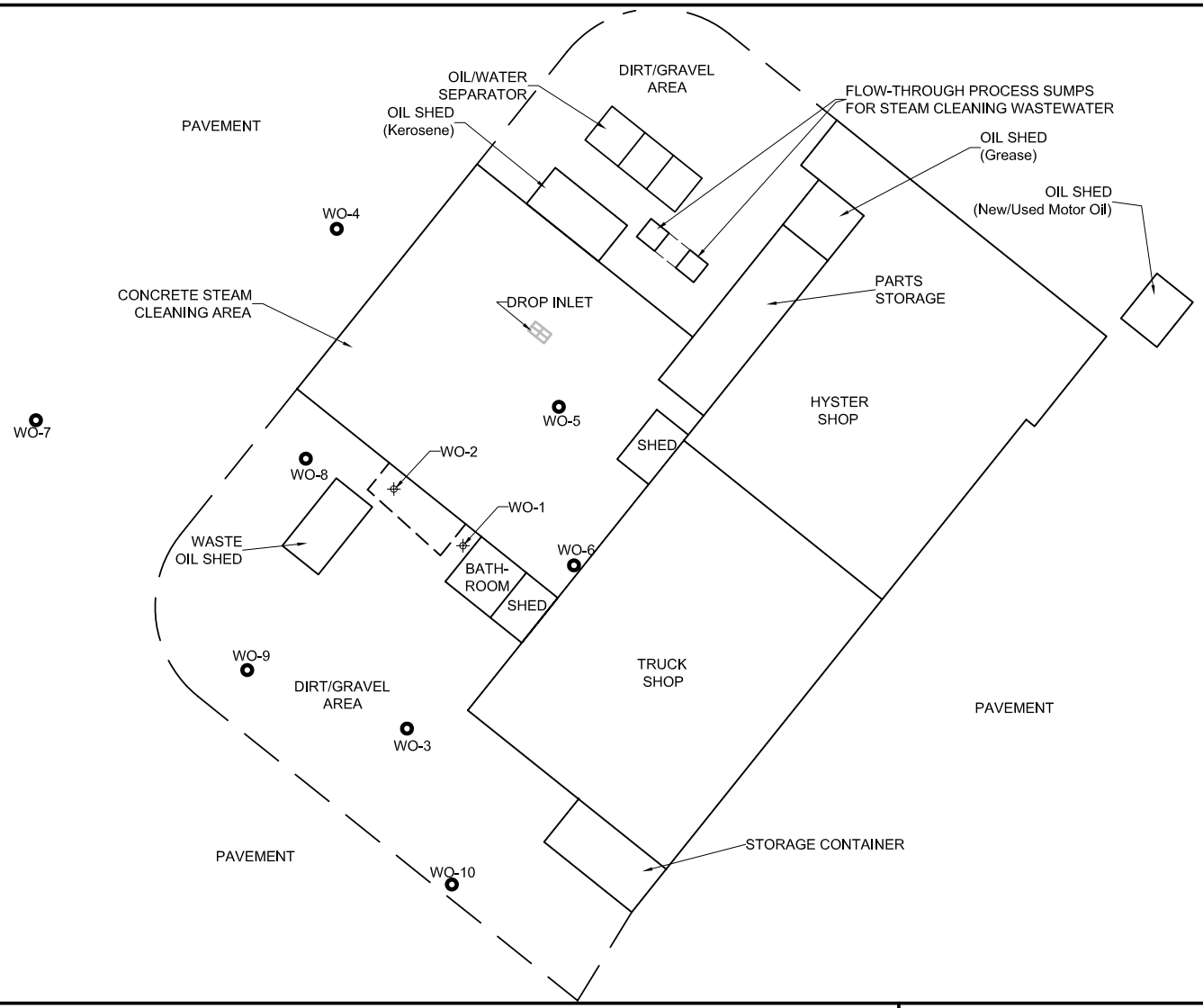

LEGEND

WO-3 — APPROXIMATE LOCATION AND DESIGNATION OF BORING DRILLED IN JULY 2003 BY MFG

WO-1 — APPROXIMATE LOCATION AND DESIGNATION OF BORING DRILLED IN APRIL 2003 BY MFG

APPROXIMATE LOCATION OF FORMER WASTE OIL UST AND EXCAVATED SOIL

NOTE:
Site plan modified from Plate 2B in *Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California*, dated January 30, 2003, prepared by Environet Consulting.

N

0 15 30

APPROXIMATE SCALE

BORING LOCATIONS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229.14	By: M. Hillyard	**Figure 3**
Date: 10/17/03	Checked: CGS	

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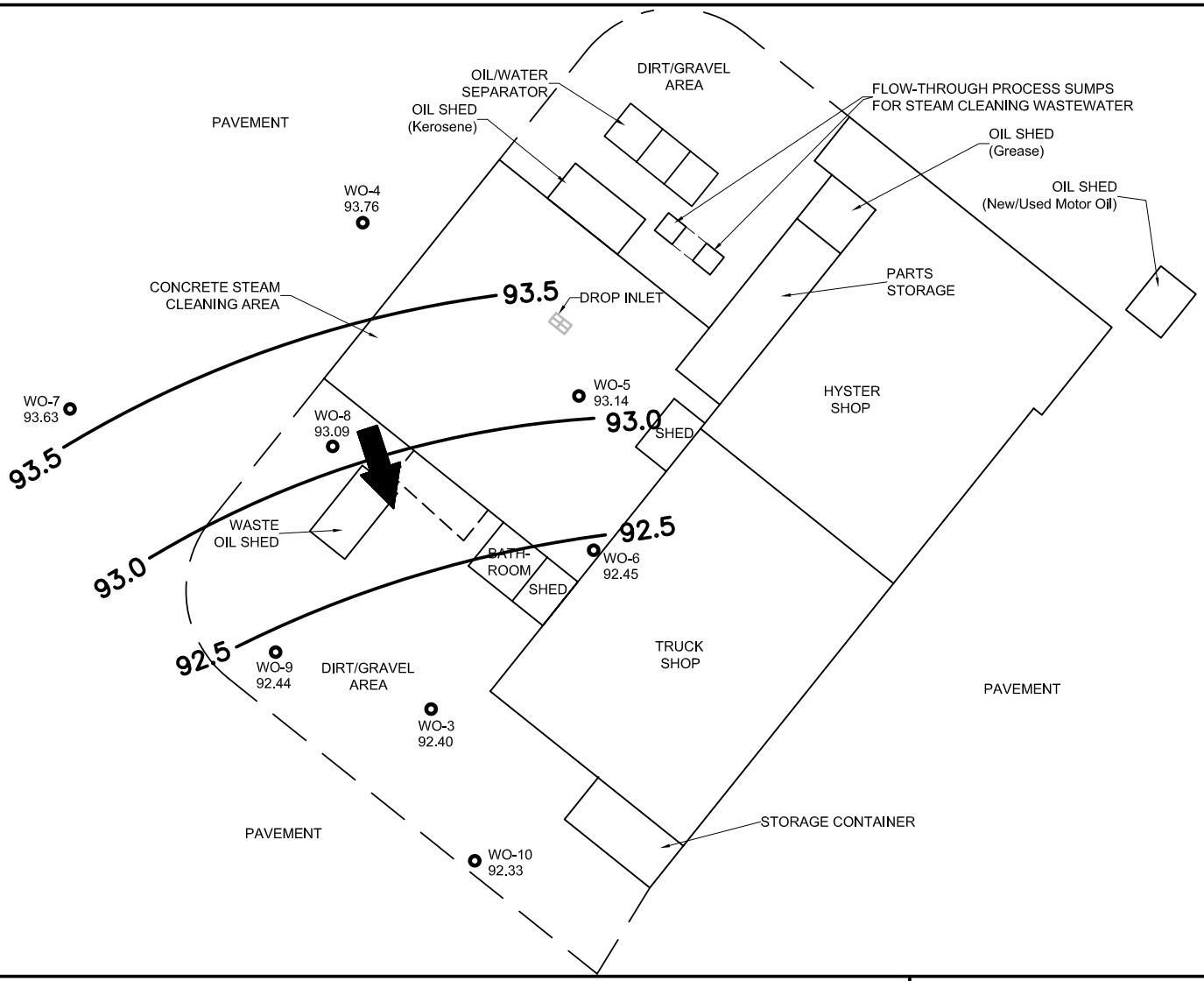
J:\030229\Task 14\Report\Figures\UST PS Map.dwg PLOT SCALE 1:1



LEGEND

WO-3 92.40 — APPROXIMATE LOCATION AND DESIGNATION OF BORING AND GROUNDWATER ELEVATION IN FEET ABOVE ARBITRARY DATUM

—93.5— LINE OF EQUAL ELEVATION OF POTENTIOMETRIC SURFACE (FEET ABOVE ARBITRARY DATUM); CONTOUR INTERVAL 0.5 FOOT

APPROXIMATE DIRECTION OF LATERAL HYDRAULIC GRADIENT

N

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APPROXIMATE SCALE

NOTE:
Site plan modified from Plate 2B in *Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California*, dated January 30, 2003, prepared by Environet Consulting.

POTENTIOMETRIC SURFACE MAP
JULY 24, 2003
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229.14	By: M. Hillyard	**Figure 4**
Date: 10/17/03	Checked: CGS	

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APPENDIX A

Humboldt County Division of Environmental Health
Boring Permit

RECEIVED
JUL 18 2003
HUMBOLDT CO. DIVISION OF ENVIRONMENTAL HEALTH

HUMBOLDT COUNTY DIVISION of ENVIRONMENTAL HEALTH - HAZARDOUS MATERIALS UNIT
WELL and BORING PERMIT APPLICATION

Facility ID # 1NHU526 Permit # 27-H

Facility Name: Sierra Pacific Industries, Arcata Sawmill Division
Site Address: 2293 Samoa Road, Arcata, CA

Site Owner: Sierra Telephone: 530-378-8000
Address: PO Box 496028 Redding, CA 96049-6028 AP#:

RP Name: Sierra Pacific Industries Telephone: 530-378-8000
Address: PO Box 496028 Redding, CA 96049-6028

Consultant: MFG, Inc. Telephone: 707-826-8430
Address: 875 Crescent Way Arcata, CA 95518 Reg.#/Type:

Driller: Fisch Environmental Telephone: 209-772-3570
Address: 399 Sheri's Place, Valley Springs, CA 95252 C-57 Lic.#: 683 865

# On-site			# Off-site		
Wells		Borings 6	Wells		Borings

Activity: ☒ Construct ☒ Destroy ☐ Repair/Modify Electrode Type:

Well Type: ☐ Monitoring Well ☐ Injection Well ☐ Vapor Extraction ☐ Geologic Boring
☐ Extraction Well ☐ Piezometer ☐ Vapor Point ☐ Soil Gas Survey
☐ Vadose Well ☐ Cathodic Protection ☒ Direct Push Boring ☐ Temporary Well Point

Investigation Type: ☐ Site Assessment ☐ Disposal Practice ☑ UST ☐ Other*
☐ Surface Contamination ☐ Surface Impoundment ☐ AST
*Specify:

Investigation Phase: ☐ Initial ☒ Subsequent ☐ Remediation ☐ Closure

Suspected Contaminants: Petroleum compounds

Disposal/Containment for Soil Cuttings: Ashbury / 55-gallon drum
Disposal/Containment for Rinsate: Ashbury / 55-gallon drum
Disposal/Containment for Development Water: Ashbury / 55-gallon drum

Permits will not be processed with out the following information:

- ☑ Scaled Construction Detail
- ☑ Detailed Site Plan
- ☑ Lead Agency Approval Letter
- ☐ Off Site Well Requirements:
  - ☐ Legal Right of Entry
  - ☐ Off Site Address/Location
  - ☐ Encroachment Permit
  - ☐ Coastal Zone Permit
- ☑ Appropriate Fees
- ☑ Copy of Workplan (if not on file at HCDEH)

Proposed Work Date: 7/24/03

rev. 6/98

HUMBOLDT COUNTY DIVISION of ENVIRONMENTAL HEALTH - HAZARDOUS MATERIALS UNIT
WELL and BORING PERMIT APPLICATION

Facility ID # 1 NHU526 **Permit #** 27 - H

I hereby agree to comply with all laws, ordinances and regulations of the county of Humboldt and State of California pertaining to water well construction. I will contact the Humboldt County Hazardous Materials Unit at (707) 445-6215 five (5) working days prior to commencing this work. I will furnish to the County of Humboldt, Division of Environmental Health, and the owner a legible copy of the State Water Well Completion Report (form DWR 188) within fifteen (15) days after completion of work to obtain final approval of the well(s). I acknowledge that the application will become a permit ONLY after site approval by the Local Implementing Agency (HCDEH, NCRWQCB, DTSC, EPA). I understand this permit is not transferable and expires one hundred twenty (120) days from the date of issuance.

Certificates of Insurance:

☑ A currently effective General Liability Certificate of Insurance is on file with this office, endorsed to include the Humboldt County Division of Environmental Health as additional named insured.

☑ A currently effective Worker's Compensation Certificate of Insurance is on file with this office, endorsed to include the Humboldt County Division of Environmental Health as additional named insured.

Signature of Well Driller - no proxies - original signature only in blue ink

7/18/03
Date

- **Well identification number and type must be affixed to exterior surface of security structure.**
- **The applicant is responsible for notifying Underground Services Alert at least 48 hours prior to the scheduled work date.**
- **A State of California Department of Water resources Well Completion Report (Form DWR 1-88) must be filed within 15 days of completion of work for all well completions and destructions.**
- **A licensed California C-57 Well Driller is required for all wells and direct push work.**

FOR OFFICE USE ONLY

Permit Approval: Norman Crawford **Date:** 7-18-2003

Fee: $ 106.00 **Date:** 7-18-2003 **Receipt:** 219521

Initial Inspection: _____ **Date:** _____

Final Inspection: _____ **Date:** _____

APPENDIX B

Boring Logs

ABBREVIATIONS / SYMBOLS USED IN BORING LOGS

GENERAL

PID - Photoionization Detector
OVM - Organic Vapor Meter
ppm - parts per million in air
sfc csg - surface casing
USCS - Unitied Soil Classification System
NGVD - National Geodetic Vertical Datum of 1929
NAVD - North American Vertical Datum of 1988
NA - Not Analyzed
slt - slight or slightly
bgl - below ground level
DTW - depth to water

COLORS

v - very
lt - light
dk - dark
yel - yellow/yellowish
brn - brown/brownish
red-brn - reddish brown
a.a. - as above
(10YR 4/6) - Munsell notation (hue value/chroma)

SAND GRAIN SIZE

VF - Very Fine
F - Fine
Med - Medium
Crs - Coarse

DENSITY / STIFFNESS

Med - Medium
V - Very

GEOLOGICAL CONTACTS

———— - Observed Contact
– – – – – - Inferred Contact

GEOTECHNICAL

L.L. - Liquid Limit in percent
P.I. - Plasticity Index in percent
K - Vertical Hydraulic Conductivity (permeability) in cm/sec

MOISTURE CONTENT

▼ - Observed top of saturated soil interval

NOTE:
Field soil logging procedures were performed in accordance with ASTM D-2488-93 (Visual-Manual Procedure).

EXPLANATION FOR BORING LOGS

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LOG OF BORING WO-3

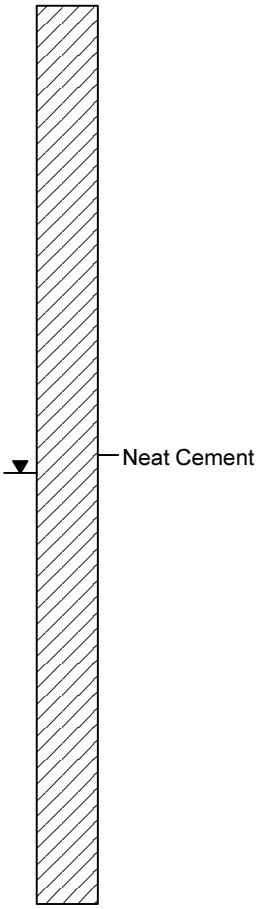
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.14

Drilling Agency	: Fisch Environmental	Logged By	: Christopher Spill, R.G.
Drilling Method	: Direct Push	Reviewed By	: Ross Steenson, C.HG.
Sampler Type	: 2 1/4 inch-O.D., 4-foot long drive sampler		
Sampling Method	: PVC Liners		
Ground Elevation	: 97.60 feet above arbitrary datum		

Date Started: July 24, 2003
Date Finished: July 24, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	SAND W/ GRAVEL: pale brn (10YR 6/3): Med sand, subangular to angular F gravel, dry.	SW			PID calibrated using 96 ppmv isobutylene. Hand augered boring to 1.5 feet bgl.
2	SAND: grey (10YR 6/1); F sand, trace silt, trace angular F gravel, organic material (rootlets), dry.	SP	1	30	PID = 2.6 ppmv (2.75-3.25 feet bgl). Mild petroleum odor. Collected soil samples WO-3 (3.25-4.0') and WO-3 (4.0').
4	- moist.				
6	CLAY: blk (10YR 2/1); some silt, trace organic material, wet.	CL	2	6	PID = NA (poor recovery). Collected soil sample WO-3 (6.0-6.5').
8			3	0	PID = NA (no recovery).
10					



NOTES:
1. Drilling completed at 10 feet bgl.
2. Installed 1-inch diameter PVC temporary well with pre-packed sand filter sleeves to a depth of 10 feet bgl.
3. Collected groundwater sample WO-3-GW on July 24, 2003.
4. Removed temporary well and grouted the boring on July 24, 2003.

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LOG OF BORING WO-4

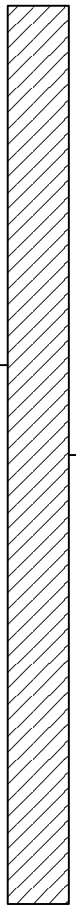
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.14

Drilling Agency	: Fisch Environmental	Logged By	: Christopher Spill, R.G.
Drilling Method	: Direct Push	Reviewed By	: Ross Steenson, C.HG.
Sampler Type	: 2 1/4 inch-O.D., 4-foot long drive sampler		
Sampling Method	: PVC Liners		
Ground Elevation	: 97.79 feet above arbitrary datum		

Date Started: July 24, 2003
Date Finished: July 24, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	ASPHALT AND BASEROCK.				PID calibrated using 96 ppmv isobutylene.
1	CLAYEY SAND W/ GRAVEL: brn (10YR 3/3); Med sand, little subangular F gravel, few silt, moist.	SC	1	3	PID = 0.0 ppmv (1.0-1.25 feet bgl).
2					
3	SILTY SAND W/ CLAY: v dk grey (10YR 3/2); Med sand, some silt, few subangular F gravel, few clay, moist.	SM			
4	SAND: grey (10YR 6/1); F sand, trace silt, wet.	SP	2	34	PID = 0.0 ppmv (4.0-4.5 feet bgl).
5					PID = 0.0 ppmv (5.0-5.5 feet bgl). Collected soil samples WO-4 (5.5') and WO-4 (5.5-6.25').
6					
7					
8	PEAT: dk brn (10YR 3/3); mostly organic material (fiberous, spongy), few F sand, few silt.	PT			
9	SILT: v dk grey brn (10YR 3/2); few F sand, few clay, organic material (rootlets).	ML	3	14	PID = 0.0 ppmv (8.0-8.5 feet bgl). Collected soil samples WO-4 (8.5') and WO-4 (8.5-9.25').
10					
11					
12					
13					
14					
15					



NOTES:
1. Drilling completed at 10 feet bgl.
2. Installed 1-inch diameter PVC temporary well with pre-packed sand filter sleeves to a depth of 10 feet bgl.
3. Collected groundwater sample WO-4-GW on July 24, 2003.
4. Removed temporary well and grouted the boring on July 24, 2003.

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LOG OF BORING WO-5

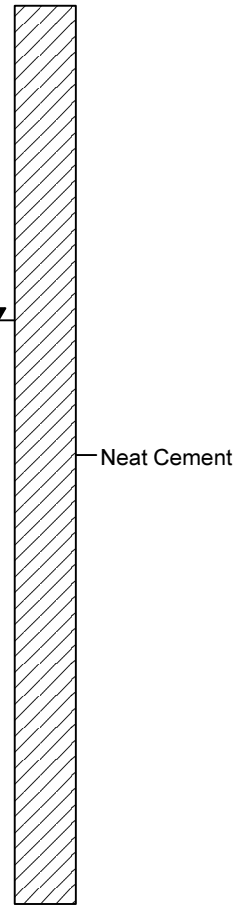
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.14

Drilling Agency	: Fisch Environmental	Logged By	: Christopher Spill, R.G.
Drilling Method	: Direct Push	Reviewed By	: Ross Steenson, C.HG.
Sampler Type	: 2 1/4 inch-O.D., 4-foot long drive sampler		
Sampling Method	: PVC Liners		
Ground Elevation	: 96.61 feet above arbitrary datum		

Date Started: July 24, 2003
Date Finished: July 24, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	CONCRETE AND BASEROCK.				PID calibrated using 96 ppmv isobutylene.
1	CLAYEY SAND W/ GRAVEL: brn (10YR 3/3); Med sand, little subangular F gravel, few silt, moist.	SC			
2	SILTY SAND W/ CLAY: vdk grey (10YR 3/2); Med sand, some silt, few subangular F gravel, few clay, moist.	SM	1	18	PID = 0.0 ppmv (2.0-2.5 feet bgl).
3	SAND: grey (10YR 6/1); F sand, trace silt, moist.		2	12	PID = 4.0 ppmv (3.0-3.25 feet bgl). Collected soil samples WO-5 (3.25') and WO-5 (3.25 to 4.0').
4	- wet.	SP			
5					
6			3	43	PID = 1.9 ppmv (5.5-6.0 feet bgl).
7	PEAT: dk brn (10YR 3/3); mostly organic material (fiberous, spongy), few F sand, few silt.	PT			PID = 2.2 ppmv (7.0-7.5' feet bgl). Organic odor.
8	SILT: v dk grey brn (10YR 3/2); few F sand, few clay, organic material (rootlets).	ML	4	16	Collected soil samples WO-5 (8.0') and WO-5 (8.0-8.75'). PID = 3.2 ppmv (8.75-9.25 feet bgl).
9					
10					
11					
12					
13					
14					
15					



NOTES:
1. Drilling completed at 10 feet bgl.
2. Installed 1-inch diameter PVC temporary well with pre-packed sand filter sleeves to a depth of 10 feet bgl.
3. Collected groundwater sample WO-5-GW on July 24, 2003.
4. Removed temporary well and grouted the boring on July 24, 2003.

MFG, Inc.

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LOG OF BORING WO-6

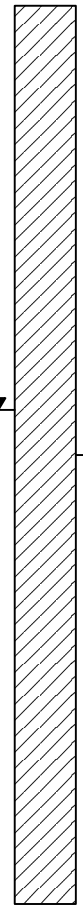
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.14

Drilling Agency	: Fisch Environmental	Logged By	: Christopher Spill, R.G.
Drilling Method	: Direct Push	Reviewed By	: Ross Steenson, C.HG.
Sampler Type	: 2 1/4 inch-O.D., 4-foot long drive sampler		
Sampling Method	: PVC Liners		
Ground Elevation	: 96.97 feet above arbitrary datum		

Date Started: July 24, 2003
Date Finished: July 24, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	CONCRETE AND BASEROCK.				PID calibrated using 96 ppmv isobutylene.
1	CLAYEY SAND W/ GRAVEL: brn (10YR 3/3); Med sand, little subangular F gravel, few silt, moist.	SC			
	SILTY SAND W/ CLAY: vdk grey (10YR 3/2); Med sand, some silt, few subangular F gravel, few clay, moist.	SM			
2			1	28	PID = 2.6 ppmv (3.0-3.25 feet bgl).
	SAND: grey (10YR 6/1); F sand, trace silt, moist.				
3					
4					PID = 2.6 ppmv (4.0-4.5 feet bgl).
	- wet.	SP			Collected soil samples WO-6 (4.5') and WO-6 (4.5 to 5.25').
5					
6			2	35	
					PID = 2.6 ppmv (6.5-7.0 feet bgl).
7	PEAT: dk brn (10YR 3/3); mostly organic material (fiberous, spongy), few F sand, few silt.	PT			
8	SILT: v dk grey brn (10YR 3/2); few F sand, few clay, organic material (rootlets).				
		ML	3	24	PID = 2.2 ppmv (8.5-9.0 feet bgl). Collected soil samples WO-6 (9.0') and WO-6 (9.0-9.75').
9					
10					
11					
12					
13					
14					
15					



NOTES:
1. Drilling completed at 10 feet bgl.
2. Installed 1-inch diameter PVC temporary well with pre-packed sand filter sleeves to a depth of 10 feet bgl.
3. Collected groundwater sample WO-6-GW on July 24, 2003.
4. Removed temporary well and grouted the boring on July 24, 2003.

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LOG OF BORING WO-7

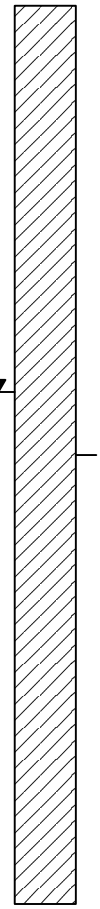
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.14

Drilling Agency	: Fisch Environmental	Logged By	: Christopher Spill, R.G.
Drilling Method	: Direct Push	Reviewed By	: Ross Steenson, C.HG.
Sampler Type	: 2 1/4 inch-O.D., 4-foot long drive sampler		
Sampling Method	: PVC Liners		
Ground Elevation	: 97.93 feet above arbitrary datum		

Date Started: July 24, 2003
Date Finished: July 24, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	ASPHALT AND BASEROCK.				PID calibrated using 96 ppmv isobutylene.
1	CLAYEY SAND W/ GRAVEL: brn (10YR 3/3); Med sand, little subangular F gravel, few silt, moist.	SC	1	22	PID = 3.0 ppmv (2.25-2.75 feet bgl).
2					
3	SILTY SAND W/ CLAY: v dk grey (10YR 3/2); Med sand, some silt, few subangular F gravel, few clay, moist.	SM			
4	SAND: grey (10YR 6/1); F sand, trace silt, wet.	SP	2	28	Collected soil samples WO-7 (4.0') and WO-7 (4.0-4.75'). PID = 2.1 ppmv (4.75-5.25 feet bgl).
5					
6					PID = 1.2 ppmv (5.75-6.25 feet bgl).
7					
8	- dk brn (10YR 3/2); few silt, trace organic material (rootlets).		3	24	Collected soil samples WO-7 (8.0') and WO-7 (8.0-8.75'). PID = 2.2 ppmv (8.75-9.25 feet bgl).
9					
10					
11					
12					
13					
14					
15					



NOTES:
1. Drilling completed at 10 feet bgl.
2. Installed 1-inch diameter PVC temporary well with pre-packed sand filter sleeves to a depth of 10 feet bgl.
3. Collected groundwater sample WO-7-GW on July 24, 2003.
4. Removed temporary well and grouted the boring on July 24, 2003.

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LOG OF BORING WO-8

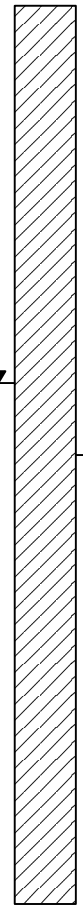
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.14

Drilling Agency	: Fisch Environmental	Logged By	: Christopher Spill, R.G.
Drilling Method	: Direct Push	Reviewed By	: Ross Steenson, C.HG.
Sampler Type	: 2 1/4 inch-O.D., 4-foot long drive sampler		
Sampling Method	: PVC Liners		
Ground Elevation	: 97.25 feet above arbitrary datum		

Date Started: July 24, 2003
Date Finished: July 24, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0–1	SAND W/ GRAVEL: pale brn (10YR 6/3): Med sand, subangular to angular F gravel, dry.	SW			PID calibrated using 96 ppmv isobutylene.
2–4	SAND: grey (10YR 6/1); F sand, trace silt, trace angular F gravel, organic material (rootlets), moist.	SP	1	36	PID = 2.6 ppmv (3.0-3.25 feet bgl). Collected soil samples WO-8 (3.25') and WO-8 (3.25-4.0').
4–5	- wet.	SP			
5–6	- dk brn (10YR 3/2); few silt, trace organic material.	SP	2	34	PID = 0.0 ppmv (5.5-6.0 feet bgl). Collected soil samples WO-8 (6.0') and WO-8 (6.0-6.75').
7–8	PEAT: dk brn (10YR 3/3); mostly organic material (fiberous, spongy), few F sand, few silt.	PT			
8–9	SILT: v dk grey brn (10YR 3/2); few F sand, few clay, organic material (rootlets).	ML	3	18	



NOTES:
1. Drilling completed at 10 feet bgl.
2. Installed 1-inch diameter PVC temporary well with pre-packed sand filter sleeves to a depth of 10 feet bgl.
3. Collected groundwater sample WO-8-GW on July 24, 2003.
4. Removed temporary well and grouted the boring on July 24, 2003.

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LOG OF BORING WO-9

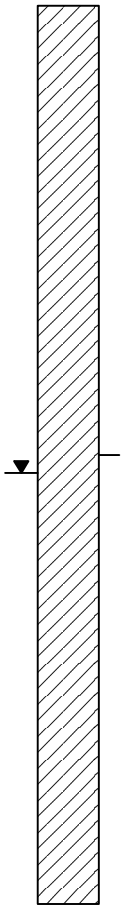
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.14

Drilling Agency	: Fisch Environmental	Logged By	: Christopher Spill, R.G.
Drilling Method	: Direct Push	Reviewed By	: Ross Steenson, C.HG.
Sampler Type	: 2 1/4 inch-O.D., 4-foot long drive sampler		
Sampling Method	: PVC Liners		
Ground Elevation	: 97.67 feet above arbitrary datum		

Date Started: July 24, 2003
Date Finished: July 24, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	SAND W/ GRAVEL: pale brn (10YR 6/3): Med sand, subangular to angular F gravel, dry.	SW			PID calibrated using 96 ppmv isobutylene.
1					
2	SAND: grey (10YR 6/1); F sand, trace silt, trace angular F gravel, organic material (rootlets), moist.	SP	1	27	PID = 0.0 ppmv (1.75-2.25 feet bgl).
3					
4					Collected soil samples WO-9 (4.0') and WO-9 (4.0-4.75'). PID = 0.0 ppmv (4.75-5.25 feet bgl).
5	- wet.				
6			2	14	
7	SILT: v dk grey brn (10YR 3/2); few F sand, few clay, organic material (rootlets).	ML			
8					Collected soil samples WO-9 (8.0') and WO-9 (8.0-8.75'). PID = 0.0 ppmv (8.75-9.25 feet bgl).
9			3	22	
10					
11					
12					
13					
14					
15					



NOTES:
1. Drilling completed at 10 feet bgl.
2. Installed 1-inch diameter PVC temporary well with pre-packed sand filter sleeves to a depth of 10 feet bgl.
3. Collected groundwater sample WO-9-GW on July 24, 2003.
4. Removed temporary well and grouted the boring on July 24, 2003.

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LOG OF BORING WO-10

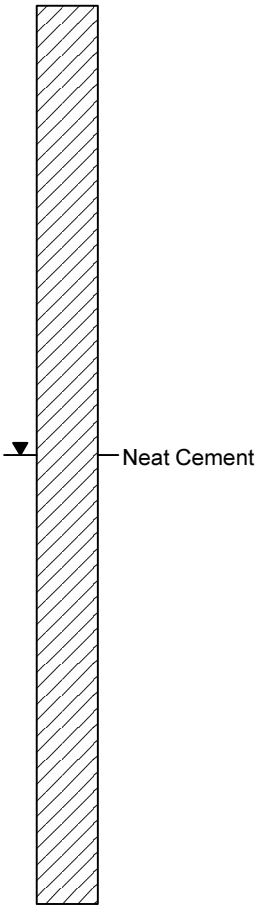
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.14

Drilling Agency	: Fisch Environmental	Logged By	: Christopher Spill, R.G.
Drilling Method	: Direct Push	Reviewed By	: Ross Steenson, C.HG.
Sampler Type	: 2 1/4 inch-O.D., 4-foot long drive sampler		
Sampling Method	: PVC Liners		
Ground Elevation	: 97.30 feet above arbitrary datum		

Date Started: July 24, 2003
Date Finished: July 24, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	SAND W/ GRAVEL: pale brn (10YR 6/3): Med sand, subangular to angular F gravel, dry.	SW	1	12	PID calibrated using 96 ppmv isobutylene. PID = 0.0 ppmv (1.5-2.0 feet bgl).
3	SAND: grey (10YR 6/1); F sand, trace silt, trace angular F gravel, organic material (rootlets), moist.	SP	2	20	PID = 0.0 ppmv (4.5-5.0 feet bgl). Collected soil samples WO-10 (5.0') and WO-10 (5.0-5.75').
5	- wet.				
7	SILT: v dk grey brn (10YR 3/2); few F sand, few clay, organic material (rootlets).	ML	3	24	PID = 0.0 ppmv (8.5-9.0 feet bgl). Collected soil samples WO-10 (9.0') and WO-10 (9.0-9.75').
10					



NOTES:
1. Drilling completed at 10 feet bgl.
2. Installed 1-inch diameter PVC temporary well with pre-packed sand filter sleeves to a depth of 10 feet bgl.
3. Collected groundwater sample WO-10-GW on July 24, 2003.
4. Removed temporary well and grouted the boring on July 24, 2003.

11-12-2003 J:\030229\Task 14\Report\Boring Logs\WO-10.BOR

APPENDIX C

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

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

12 August 2003

MFG, Inc
Attn: Ed Conti
180 Howard St. Suite 200
San Francisco, CA 94105-2941
RE: SPI-Arcata/Task #4
Work Order: A307601

Enclosed are the results of analyses for samples received by the laboratory on 07/25/03 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cheryl Watson For Sheri L. Speaks
Project Manager

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WO-3 (4.0')	A307601-01	Soil	07/24/03 09:00	07/25/03 15:40
WO-3 (3.25-4.0')	A307601-02	Soil	07/24/03 09:00	07/25/03 15:40
WO-3 (6.0-6.5')	A307601-03	Soil	07/24/03 09:20	07/25/03 15:40
WO-4 (5.5')	A307601-04	Soil	07/24/03 09:50	07/25/03 15:40
WO-4 (5.5-6.25')	A307601-05	Soil	07/24/03 09:50	07/25/03 15:40
WO-4 (8.5')	A307601-06	Soil	07/24/03 10:10	07/25/03 15:40
WO-4 (8.5-9.25')	A307601-07	Soil	07/24/03 10:10	07/25/03 15:40
WO-5 (3.25')	A307601-08	Soil	07/24/03 10:40	07/25/03 15:40
WO-5 (3.25-4.0')	A307601-09	Soil	07/24/03 10:40	07/25/03 15:40
WO-5 (8.0')	A307601-10	Soil	07/24/03 11:00	07/25/03 15:40
WO-5 (8.0-8.75')	A307601-11	Soil	07/24/03 11:00	07/25/03 15:40
WO-6 (4.5')	A307601-12	Soil	07/24/03 11:30	07/25/03 15:40
WO-6 (4.5-5.25')	A307601-13	Soil	07/24/03 11:30	07/25/03 15:40
WO-6 (9.0')	A307601-14	Soil	07/24/03 11:50	07/25/03 15:40
WO-6 (9.0-9.75')	A307601-15	Soil	07/24/03 11:50	07/25/03 15:40
WO-7 (4.0')	A307601-16	Soil	07/24/03 12:15	07/25/03 15:40
WO-7 (4.0-4.75')	A307601-17	Soil	07/24/03 12:15	07/25/03 15:40
WO-7 (8.0')	A307601-18	Soil	07/24/03 12:40	07/25/03 15:40
WO-7 (8.0-8.75')	A307601-19	Soil	07/24/03 12:40	07/25/03 15:40
WO-8 (3.25')	A307601-20	Soil	07/24/03 13:10	07/25/03 15:40
WO-8 (3.25-4.0')	A307601-21	Soil	07/24/03 13:10	07/25/03 15:40
WO-8 (6.0')	A307601-22	Soil	07/24/03 13:30	07/25/03 15:40
WO-8 (6.0-6.75')	A307601-23	Soil	07/24/03 13:30	07/25/03 15:40
WO-9 (4.0')	A307601-24	Soil	07/24/03 14:00	07/25/03 15:40

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

WO-9 (4.0-4.75')	A307601-25	Soil	07/24/03 14:00	07/25/03 15:40
WO-9 (8.0')	A307601-26	Soil	07/24/03 14:20	07/25/03 15:40
WO-9 (8.0-8.75')	A307601-27	Soil	07/24/03 14:20	07/25/03 15:40
WO-10 (5.0')	A307601-28	Soil	07/24/03 14:45	07/25/03 15:40
WO-10 (9.0')	A307601-29	Soil	07/24/03 15:00	07/25/03 15:40
WO-10 (9.0-9.75')	A307601-30	Soil	07/24/03 15:00	07/25/03 15:40
WO-10 (5.0-5.75')	A307601-31	Soil	07/24/03 14:45	07/25/03 15:40

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-3 (4.0') (A307601-01)			**Sample Type: Soil**			**Sampled: 07/24/03 09:00**		
Volatile Organic Compounds by EPA Methods 8260B/5035								
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.10 mg/kg**	**0.020**	
Benzene	"	"	"	"	"	ND "	0.0050	
Bromobenzene	"	"	"	"	"	ND "	0.0050	
Bromochloromethane	"	"	"	"	"	ND "	0.0050	
Bromodichloromethane	"	"	"	"	"	ND "	0.0050	
Bromoform	"	"	"	"	"	ND "	0.0050	
Bromomethane	"	"	"	"	"	ND "	0.0050	
n-Butylbenzene	"	"	"	"	"	ND "	0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0050	
Chlorobenzene	"	"	"	"	"	ND "	0.0050	
Chloroethane	"	"	"	"	"	ND "	0.0050	
Chloroform	"	"	"	"	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-3 (4.0') (A307601-01)		**Sample Type: Soil**				**Sampled: 07/24/03 09:00**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
1,3-Dichloropropane	8260B	"	"	08/01/03	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	**0.015 "**	**0.015**	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-3 (4.0') (A307601-01)			**Sample Type: Soil**			**Sampled: 07/24/03 09:00**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
m,p-Xylene	8260B	"	"	08/01/03	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*116 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*78.8 %*	*65-127*	
Surrogate: Bromofluorobenzene	"	"	"	"		*86.4 %*	*56-130*	
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	**1.1 mg/kg**	**1.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*115 %*	*60-156*	
WO-3 (3.25-4.0') (A307601-02)			**Sample Type: Soil**			**Sampled: 07/24/03 09:00**		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG32804	07/29/03	07/29/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	**48 "**	**5.0**	
Copper	"	"	"	"	"	**29 "**	**10**	
Nickel	"	"	"	"	"	**54 "**	**10**	
Lead	"	"	"	"	"	**12 "**	**5.0**	
Zinc	"	"	"	"	"	**53 "**	**10**	
Polychlorinated Biphenyls by EPA Method 8080A								
PCB-1016	8080	AH31117	07/31/03	08/07/03	1	ND mg/kg	0.20	
PCB-1221	"	"	"	"	"	ND "	0.20	
PCB-1232	"	"	"	"	"	ND "	0.20	
PCB-1242	"	"	"	"	"	ND "	0.20	
PCB-1248	"	"	"	"	"	ND "	0.20	
PCB-1254	"	"	"	"	"	ND "	0.20	
PCB-1260	"	"	"	"	"	ND "	0.20	
PCB-1262	"	"	"	"	"	ND "	0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*	*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*	*S-06*

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Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-3 (3.25-4.0') (A307601-02)			**Sample Type: Soil**			**Sampled: 07/24/03 09:00**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*71.8 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33112	07/31/03	08/01/03	20	**110 mg/kg**		**20**	D-13
TPH as Motor Oil	"	"	"	"	"	**99 "**		**40**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*53.9 %*	*21-110*		
WO-3 (6.0-6.5') (A307601-03)			**Sample Type: Soil**			**Sampled: 07/24/03 09:20**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AG32804	07/29/03	07/29/03	1	ND mg/kg		1.0	
Chromium	"	"	"	"	"	**47 "**		**5.0**	
Copper	"	"	"	"	"	**26 "**		**10**	
Nickel	"	"	"	"	"	**60 "**		**10**	
Lead	"	"	"	"	"	**13 "**		**5.0**	
Zinc	"	"	"	"	"	**51 "**		**10**	
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31117	07/31/03	08/07/03	4	ND mg/kg		0.80	R-01
PCB-1221	"	"	"	"	"	ND "		0.80	R-01
PCB-1232	"	"	"	"	"	ND "		0.80	R-01
PCB-1242	"	"	"	"	"	ND "		0.80	R-01
PCB-1248	"	"	"	"	"	ND "		0.80	R-01
PCB-1254	"	"	"	"	1	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-3 (6.0-6.5') (A307601-03)			**Sample Type: Soil**			**Sampled: 07/24/03 09:20**			
Polychlorinated Biphenyls by EPA Method 8080A (cont'd)									
Surrogate: Tetrachloro-meta-xylene	*8080*	"	"	*08/07/03*		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*67.7 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33112	07/31/03	08/01/03	10	**82 mg/kg**		**10**	D-13
TPH as Motor Oil	"	"	"	"	"	**150 "**		**20**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*82.3 %*	*21-110*		
WO-4 (5.5') (A307601-04)			**Sample Type: Soil**			**Sampled: 07/24/03 09:50**			
Volatile Organic Compounds by EPA Methods 8260B/5035									
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.029 mg/kg**		**0.020**	
Benzene	"	"	"	"	"	ND "		0.0050	
Bromobenzene	"	"	"	"	"	ND "		0.0050	
Bromochloromethane	"	"	"	"	"	ND "		0.0050	
Bromodichloromethane	"	"	"	"	"	ND "		0.0050	
Bromoform	"	"	"	"	"	ND "		0.0050	
Bromomethane	"	"	"	"	"	ND "		0.0050	
n-Butylbenzene	"	"	"	"	"	ND "		0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "		0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "		0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "		0.0050	
Chlorobenzene	"	"	"	"	"	ND "		0.0050	
Chloroethane	"	"	"	"	"	ND "		0.0050	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-4 (5.5') (A307601-04)		**Sample Type: Soil**				**Sampled: 07/24/03 09:50**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Chloroform	8260B	"	"	08/01/03	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.015	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	

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Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-4 (5.5') (A307601-04)		**Sample Type: Soil**				**Sampled: 07/24/03 09:50**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Naphthalene	8260B	"	"	08/01/03	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*126 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*88.4 %*	*65-127*	
Surrogate: Bromofluorobenzene	"	"	"	"		*72.4 %*	*56-130*	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-4 (5.5') (A307601-04)			**Sample Type: Soil**			**Sampled: 07/24/03 09:50**			
TPH Gasoline by GCFID/5035									
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	**2.3 mg/kg**		**1.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*84.0 %*	*60-156*		
WO-4 (5.5-6.25') (A307601-05)			**Sample Type: Soil**			**Sampled: 07/24/03 09:50**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AG32804	07/29/03	07/29/03	1	ND mg/kg		1.0	
Chromium	"	"	"	"	"	**33 "**		**5.0**	
Copper	"	"	"	"	"	**22 "**		**10**	
Nickel	"	"	"	"	"	**36 "**		**10**	
Lead	"	"	"	"	"	**10 "**		**5.0**	
Zinc	"	"	"	"	"	**38 "**		**10**	
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31117	07/31/03	08/07/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-4 (5.5-6.25') (A307601-05)			**Sample Type: Soil**			**Sampled: 07/24/03 09:50**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*71.8 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33112	07/31/03	08/01/03	20	**62 mg/kg**		**20**	D-09
TPH as Motor Oil	"	"	"	"	"	**840 "**		**40**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*93.5 %*	*21-110*		
WO-4 (8.5') (A307601-06)			**Sample Type: Soil**			**Sampled: 07/24/03 10:10**			
Volatile Organic Compounds by EPA Methods 8260B/5035									
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**1.3 mg/kg**		**0.034**	C-01
Benzene	"	"	"	"	"	ND "		0.0084	
Bromobenzene	"	"	"	"	"	ND "		0.0084	
Bromochloromethane	"	"	"	"	"	ND "		0.0084	
Bromodichloromethane	"	"	"	"	"	ND "		0.0084	
Bromoform	"	"	"	"	"	ND "		0.0084	
Bromomethane	"	"	"	"	"	ND "		0.0084	
n-Butylbenzene	"	"	"	"	"	ND "		0.0084	
sec-Butylbenzene	"	"	"	"	"	ND "		0.0084	
tert-Butylbenzene	"	"	"	"	"	ND "		0.0084	
Carbon tetrachloride	"	"	"	"	"	ND "		0.0084	
Chlorobenzene	"	"	"	"	"	ND "		0.0084	
Chloroethane	"	"	"	"	"	ND "		0.0084	
Chloroform	"	"	"	"	"	ND "		0.0084	
Chloromethane	"	"	"	"	"	ND "		0.0084	
2-Chlorotoluene	"	"	"	"	"	ND "		0.0084	
4-Chlorotoluene	"	"	"	"	"	ND "		0.0084	

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
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AUG 1 5 2003

MFG, Inc.

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-4 (8.5') (A307601-06)		**Sample Type: Soil**				**Sampled: 07/24/03 10:10**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Dibromochloromethane	8260B	"	"	08/01/03	"	ND "	0.0084	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0084	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0084	
Dibromomethane	"	"	"	"	"	ND "	0.0084	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0084	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0084	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0084	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0084	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0084	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0084	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0084	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0084	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0084	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0084	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0084	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0084	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0084	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0084	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0084	
Ethylbenzene	"	"	"	"	"	ND "	0.0084	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0084	
Isopropylbenzene	"	"	"	"	"	ND "	0.0084	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0084	
Methyl ethyl ketone	"	"	"	"	"	**0.15 "**	**0.025**	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.017	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0084	
Methylene chloride	"	"	"	"	"	ND "	0.0084	
Naphthalene	"	"	"	"	"	ND "	0.0084	
n-Propylbenzene	"	"	"	"	"	ND "	0.0084	
Styrene	"	"	"	"	"	ND "	0.0084	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0084	

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Project Manager

8/12/03

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-4 (8.5') (A307601-06)			**Sample Type: Soil**			**Sampled: 07/24/03 10:10**			
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)									
1,1,2,2-Tetrachloroethane	8260B	"	"	08/01/03	"	ND "		0.0084	
Tetrachloroethene	"	"	"	"	"	ND "		0.0084	
Toluene	"	"	"	"	"	ND "		0.0084	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "		0.0084	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "		0.0084	
1,1,1-Trichloroethane	"	"	"	"	"	ND "		0.0084	
1,1,2-Trichloroethane	"	"	"	"	"	ND "		0.0084	
Trichloroethene	"	"	"	"	"	ND "		0.0084	
Trichlorofluoromethane	"	"	"	"	"	ND "		0.0084	
Trichlorotrifluoroethane	"	"	"	"	"	ND "		0.0084	
1,2,3-Trichloropropane	"	"	"	"	"	ND "		0.0084	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "		0.0084	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "		0.0084	
Vinyl chloride	"	"	"	"	"	ND "		0.0084	
m,p-Xylene	"	"	"	"	"	ND "		0.0084	
o-Xylene	"	"	"	"	"	ND "		0.0084	
Xylenes (total)	"	"	"	"	"	ND "		0.0084	
Surrogate: Dibromofluoromethane	"	"	"	"		*115 %*	*57-144*		
Surrogate: Toluene-d8	"	"	"	"		*88.0 %*	*65-127*		
Surrogate: Bromofluorobenzene	"	"	"	"		*78.0 %*	*56-130*		
TPH Gasoline by GCFID/5035									
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	**2.3 mg/kg**		**1.0**	G-1
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*112 %*	*60-156*		
WO-4 (8.5-9.25') (A307601-07)			**Sample Type: Soil**			**Sampled: 07/24/03 10:10**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AG32804	07/29/03	07/29/03	1	ND mg/kg		1.0	
Chromium	"	"	"	"	"	**6.4 "**		**5.0**	
Copper	"	"	"	"	"	ND "		10	
Nickel	"	"	"	"	"	ND "		10	

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Project Manager

8/12/03

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-4 (8.5-9.25') (A307601-07)		**Sample Type: Soil**				**Sampled: 07/24/03 10:10**			
Metals by EPA 6000/7000 Series Methods (cont'd)									
Lead	EPA 6010	"	"	07/29/03	"	ND "		5.0	
Zinc	"	"	"	"	"	ND "		10	
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31117	07/31/03	08/07/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*74.2 %*	*23-140*		

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-4 (8.5-9.25') (A307601-07)			**Sample Type: Soil**			**Sampled: 07/24/03 10:10**		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified								
TPH as Diesel	8015DRO	AG33112	07/31/03	08/02/03	1	**6.4 mg/kg**	**1.0**	D-09
TPH as Motor Oil	"	"	"	"	"	**94 "**	**2.0**	D-12
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*67.5 %* *21-110*		
WO-5 (3.25') (A307601-08)			**Sample Type: Soil**			**Sampled: 07/24/03 10:40**		
Volatile Organic Compounds by EPA Methods 8260B/5035								
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.13 mg/kg**	**0.020**	
Benzene	"	"	"	"	"	ND "	0.0050	
Bromobenzene	"	"	"	"	"	ND "	0.0050	
Bromochloromethane	"	"	"	"	"	ND "	0.0050	
Bromodichloromethane	"	"	"	"	"	ND "	0.0050	
Bromoform	"	"	"	"	"	ND "	0.0050	
Bromomethane	"	"	"	"	"	ND "	0.0050	
n-Butylbenzene	"	"	"	"	"	ND "	0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0050	
Chlorobenzene	"	"	"	"	"	ND "	0.0050	
Chloroethane	"	"	"	"	"	ND "	0.0050	
Chloroform	"	"	"	"	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	

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Project Manager

8/12/03

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San Francisco, CA 94105-2941
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Report Date: 08/12/03 11:41
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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-5 (3.25') (A307601-08)		**Sample Type: Soil**				**Sampled: 07/24/03 10:40**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
1,1-Dichloroethane	8260B	"	"	08/01/03	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	**0.0082 "**	**0.0050**	
Methyl ethyl ketone	"	"	"	"	"	**0.018 "**	**0.015**	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-5 (3.25') (A307601-08)			**Sample Type: Soil**			**Sampled: 07/24/03 10:40**			
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)									
Trichlorofluoromethane	8260B	"	"	08/01/03	"	ND "		0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "		0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "		0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "		0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "		0.0050	
Vinyl chloride	"	"	"	"	"	ND "		0.0050	
m,p-Xylene	"	"	"	"	"	ND "		0.0050	
o-Xylene	"	"	"	"	"	ND "		0.0050	
Xylenes (total)	"	"	"	"	"	ND "		0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*111 %*	*57-144*		
Surrogate: Toluene-d8	"	"	"	"		*84.8 %*	*65-127*		
Surrogate: Bromofluorobenzene	"	"	"	"		*63.2 %*	*56-130*		
TPH Gasoline by GCFID/5035									
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	**3.1 mg/kg**		**1.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*128 %*	*60-156*		
WO-5 (3.25-4.0') (A307601-09)			**Sample Type: Soil**			**Sampled: 07/24/03 10:40**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AG32804	07/29/03	07/29/03	1	ND mg/kg		1.0	
Chromium	"	"	"	"	"	**52 "**		**5.0**	
Copper	"	"	"	"	"	**31 "**		**10**	
Nickel	"	"	"	"	"	**80 "**		**10**	
Lead	"	"	"	"	"	**8.5 "**		**5.0**	
Zinc	"	"	"	"	"	**47 "**		**10**	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-5 (3.25-4.0') (A307601-09)			**Sample Type: Soil**			**Sampled: 07/24/03 10:40**		
Polychlorinated Biphenyls by EPA Method 8080A								
PCB-1016	8080	AH31117	07/31/03	08/07/03	1	ND mg/kg	0.20	
PCB-1221	"	"	"	"	"	ND "	0.20	
PCB-1232	"	"	"	"	"	ND "	0.20	
PCB-1242	"	"	"	"	"	ND "	0.20	
PCB-1248	"	"	"	"	"	ND "	0.20	
PCB-1254	"	"	"	"	"	ND "	0.20	
PCB-1260	"	"	"	"	"	ND "	0.20	
PCB-1262	"	"	"	"	"	ND "	0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*	*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*	*S-06*
Chlorinated Phenols by Canadian Pulp Method								
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg	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	"	"	"	"		*75.0 %*	*23-140*	
TPH as Diesel and Motor Oil by EPA Method 8015 Modified								
TPH as Diesel	8015DRO	AG33112	07/31/03	08/01/03	1	**16 mg/kg**	**1.0**	D-09
TPH as Motor Oil	"	"	"	"	"	**130 "**	**2.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*92.7 %*	*21-110*	
WO-5 (8.0') (A307601-10)			**Sample Type: Soil**			**Sampled: 07/24/03 11:00**		
Volatile Organic Compounds by EPA Methods 8260B/5035								
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.96 mg/kg**	**0.037**	
Benzene	"	"	"	"	"	ND "	0.0091	
Bromobenzene	"	"	"	"	"	ND "	0.0091	
Bromochloromethane	"	"	"	"	"	ND "	0.0091	
Bromodichloromethane	"	"	"	"	"	ND "	0.0091	

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-5 (8.0') (A307601-10)		**Sample Type: Soil**				**Sampled: 07/24/03 11:00**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Bromoform	8260B	"	"	08/01/03	"	ND "	0.0091	
Bromomethane	"	"	"	"	"	ND "	0.0091	
n-Butylbenzene	"	"	"	"	"	ND "	0.0091	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0091	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0091	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0091	
Chlorobenzene	"	"	"	"	"	ND "	0.0091	
Chloroethane	"	"	"	"	"	ND "	0.0091	
Chloroform	"	"	"	"	"	ND "	0.0091	
Chloromethane	"	"	"	"	"	ND "	0.0091	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0091	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0091	
Dibromochloromethane	"	"	"	"	"	ND "	0.0091	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0091	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0091	
Dibromomethane	"	"	"	"	"	ND "	0.0091	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0091	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0091	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0091	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0091	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0091	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0091	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0091	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0091	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0091	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0091	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0091	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0091	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0091	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0091	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0091	

Cheryl Watson For Sheri L. Speaks
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Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-5 (8.0') (A307601-10)			**Sample Type: Soil**			**Sampled: 07/24/03 11:00**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Ethylbenzene	8260B	"	"	08/01/03	"	ND "	0.0091	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0091	
Isopropylbenzene	"	"	"	"	"	ND "	0.0091	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0091	
Methyl ethyl ketone	"	"	"	"	"	**0.20 "**	**0.027**	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.018	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0091	
Methylene chloride	"	"	"	"	"	ND "	0.0091	
Naphthalene	"	"	"	"	"	ND "	0.0091	
n-Propylbenzene	"	"	"	"	"	ND "	0.0091	
Styrene	"	"	"	"	"	ND "	0.0091	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0091	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0091	
Tetrachloroethene	"	"	"	"	"	ND "	0.0091	
Toluene	"	"	"	"	"	ND "	0.0091	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0091	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0091	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0091	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0091	
Trichloroethene	"	"	"	"	"	ND "	0.0091	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0091	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0091	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0091	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0091	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0091	
Vinyl chloride	"	"	"	"	"	ND "	0.0091	
m,p-Xylene	"	"	"	"	"	ND "	0.0091	
o-Xylene	"	"	"	"	"	ND "	0.0091	
Xylenes (total)	"	"	"	"	"	ND "	0.0091	
Surrogate: Dibromofluoromethane	"	"	"	"		*104 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*90.8 %*	*65-127*	

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Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-5 (8.0') (A307601-10)			**Sample Type: Soil**			**Sampled: 07/24/03 11:00**			
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)									
Surrogate: Bromofluorobenzene	*8260B*	"	"	*08/01/03*		*70.0 %*	*56-130*		
TPH Gasoline by GCFID/5035									
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1.1	ND mg/kg		1.1	R-02
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*115 %*	*60-156*		
WO-5 (8.0-8.75') (A307601-11)			**Sample Type: Soil**			**Sampled: 07/24/03 11:00**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AG32804	07/29/03	07/29/03	1	ND mg/kg		1.0	
Chromium	"	"	"	"	"	**15** "		**5.0**	
Copper	"	"	"	"	"	ND "		10	
Nickel	"	"	"	"	"	**11** "		**10**	
Lead	"	"	"	"	"	ND "		5.0	
Zinc	"	"	"	"	"	ND "		10	
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31117	07/31/03	08/07/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		%	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		%	*10-150*		*S-06*

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Project ID: SPI-Arcata/Task #4

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-5 (8.0-8.75') (A307601-11)			**Sample Type: Soil**			**Sampled: 07/24/03 11:00**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*69.4 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33112	07/31/03	08/01/03	1	**1.2 mg/kg**		**1.0**	D-13
TPH as Motor Oil	"	"	"	"	"	**50 "**		**2.0**	D-12
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*85.5 %*	*21-110*		
WO-6 (4.5') (A307601-12)			**Sample Type: Soil**			**Sampled: 07/24/03 11:30**			
Volatile Organic Compounds by EPA Methods 8260B/5035									
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.19 mg/kg**		**0.020**	
Benzene	"	"	"	"	"	ND "		0.0050	
Bromobenzene	"	"	"	"	"	ND "		0.0050	
Bromochloromethane	"	"	"	"	"	ND "		0.0050	
Bromodichloromethane	"	"	"	"	"	ND "		0.0050	
Bromoform	"	"	"	"	"	ND "		0.0050	
Bromomethane	"	"	"	"	"	ND "		0.0050	
n-Butylbenzene	"	"	"	"	"	ND "		0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "		0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "		0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "		0.0050	
Chlorobenzene	"	"	"	"	"	ND "		0.0050	
Chloroethane	"	"	"	"	"	ND "		0.0050	
Chloroform	"	"	"	"	"	ND "		0.0050	
Chloromethane	"	"	"	"	"	ND "		0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "		0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "		0.0050	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-6 (4.5') (A307601-12)		**Sample Type: Soil**				**Sampled: 07/24/03 11:30**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Dibromochloromethane	8260B	"	"	08/01/03	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	**0.027 "**	**0.015**	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-6 (4.5') (A307601-12)			**Sample Type: Soil**			**Sampled: 07/24/03 11:30**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
1,1,2,2-Tetrachloroethane	8260B	"	"	08/01/03	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*112 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*84.0 %*	*65-127*	
Surrogate: Bromofluorobenzene	"	"	"	"		*73.6 %*	*56-130*	
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	**1.2 mg/kg**	**1.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*120 %*	*60-156*	
WO-6 (4.5-5.25') (A307601-13)			**Sample Type: Soil**			**Sampled: 07/24/03 11:30**		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG32804	07/29/03	07/29/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	**43 "**	**5.0**	
Copper	"	"	"	"	"	**13 "**	**10**	
Nickel	"	"	"	"	"	**41 "**	**10**	

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Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-6 (4.5-5.25') (A307601-13)			**Sample Type: Soil**			**Sampled: 07/24/03 11:30**			
Metals by EPA 6000/7000 Series Methods (cont'd)									
Lead	EPA 6010	"	"	07/29/03	"	**7.3 "**		**5.0**	
Zinc	"	"	"	"	"	**30 "**		**10**	
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31117	07/31/03	08/07/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*75.0 %*	*23-140*		

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-6 (4.5-5.25') (A307601-13)			**Sample Type: Soil**			**Sampled: 07/24/03 11:30**		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified								
TPH as Diesel	8015DRO	AG33112	07/31/03	08/01/03	1	**18 mg/kg**	**1.0**	D-09
TPH as Motor Oil	"	"	"	"	"	**99 "**	**2.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*83.9 %* *21-110*		
WO-6 (9.0') (A307601-14)			**Sample Type: Soil**			**Sampled: 07/24/03 11:50**		
Volatile Organic Compounds by EPA Methods 8260B/5035								
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.090 mg/kg**	**0.020**	
Benzene	"	"	"	"	"	ND "	0.0050	
Bromobenzene	"	"	"	"	"	ND "	0.0050	
Bromochloromethane	"	"	"	"	"	ND "	0.0050	
Bromodichloromethane	"	"	"	"	"	ND "	0.0050	
Bromoform	"	"	"	"	"	ND "	0.0050	
Bromomethane	"	"	"	"	"	ND "	0.0050	
n-Butylbenzene	"	"	"	"	"	ND "	0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0050	
Chlorobenzene	"	"	"	"	"	ND "	0.0050	
Chloroethane	"	"	"	"	"	ND "	0.0050	
Chloroform	"	"	"	"	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-6 (9.0') (A307601-14)		**Sample Type: Soil**				**Sampled: 07/24/03 11:50**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
1,1-Dichloroethane	8260B	"	"	08/01/03	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.015	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-6 (9.0') (A307601-14)			**Sample Type: Soil**			**Sampled: 07/24/03 11:50**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Trichlorofluoromethane	8260B	"	"	08/01/03	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*98.4 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*76.4 %*	*65-127*	
Surrogate: Bromofluorobenzene	"	"	"	"		*73.6 %*	*56-130*	
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	ND mg/kg	1.0	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*116 %*	*60-156*	
WO-6 (9.0-9.75') (A307601-15)			**Sample Type: Soil**			**Sampled: 07/24/03 11:50**		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG32804	07/29/03	07/29/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	**39 "**	**5.0**	
Copper	"	"	"	"	"	ND "	10	
Nickel	"	"	"	"	"	**31 "**	**10**	
Lead	"	"	"	"	"	ND "	5.0	
Zinc	"	"	"	"	"	**16 "**	**10**	

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Project Manager

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MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
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Report Date: 08/12/03 11:41
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Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-6 (9.0-9.75') (A307601-15)			**Sample Type: Soil**			**Sampled: 07/24/03 11:50**			
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31117	07/31/03	08/07/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*74.2 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33112	07/31/03	08/01/03	1	ND mg/kg		1.0	
TPH as Motor Oil	"	"	"	"	"	**2.2 "**		**2.0**	D-12
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*27.7 %*	*21-110*		
WO-7 (4.0') (A307601-16)			**Sample Type: Soil**			**Sampled: 07/24/03 12:15**			
Volatile Organic Compounds by EPA Methods 8260B/5035									
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.17 mg/kg**		**0.020**	
Benzene	"	"	"	"	"	ND "		0.0050	
Bromobenzene	"	"	"	"	"	ND "		0.0050	
Bromochloromethane	"	"	"	"	"	ND "		0.0050	
Bromodichloromethane	"	"	"	"	"	ND "		0.0050	

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8/12/03

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-7 (4.0') (A307601-16)			**Sample Type: Soil**			**Sampled: 07/24/03 12:15**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Bromoform	8260B	"	"	08/01/03	"	ND "	0.0050	
Bromomethane	"	"	"	"	"	ND "	0.0050	
n-Butylbenzene	"	"	"	"	"	ND "	0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0050	
Chlorobenzene	"	"	"	"	"	ND "	0.0050	
Chloroethane	"	"	"	"	"	ND "	0.0050	
Chloroform	"	"	"	"	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	

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Project Manager

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-7 (4.0') (A307601-16)			**Sample Type: Soil**			**Sampled: 07/24/03 12:15**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Ethylbenzene	8260B	"	"	08/01/03	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	**0.018 "**	**0.015**	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*113 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*79.2 %*	*65-127*	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-7 (4.0') (A307601-16)		**Sample Type: Soil**				**Sampled: 07/24/03 12:15**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Surrogate: Bromofluorobenzene	*8260B*	"	"	*08/01/03*		*86.4 %*	*56-130*	
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	ND mg/kg	1.0	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*115 %*	*60-156*	
WO-7 (4.0-4.75') (A307601-17)		**Sample Type: Soil**				**Sampled: 07/24/03 12:15**		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG33003	07/30/03	08/01/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	**53** "	**5.0**	
Copper	"	"	"	"	"	ND "	10	
Nickel	"	"	"	"	"	**38** "	**10**	
Lead	"	"	"	"	"	ND "	5.0	
Zinc	"	"	"	"	"	**24** "	**10**	
Polychlorinated Biphenyls by EPA Method 8080A								
PCB-1016	8080	AH31118	08/01/03	08/08/03	1	ND mg/kg	0.20	
PCB-1221	"	"	"	"	"	ND "	0.20	
PCB-1232	"	"	"	"	"	ND "	0.20	
PCB-1242	"	"	"	"	"	ND "	0.20	
PCB-1248	"	"	"	"	"	ND "	0.20	
PCB-1254	"	"	"	"	"	ND "	0.20	
PCB-1260	"	"	"	"	"	ND "	0.20	
PCB-1262	"	"	"	"	"	ND "	0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		%	*10-150*	*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		%	*10-150*	*S-06*

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-7 (4.0-4.75') (A307601-17)			**Sample Type: Soil**			**Sampled: 07/24/03 12:15**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*81.5 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33112	07/31/03	08/01/03	1	ND mg/kg		1.0	
TPH as Motor Oil	"	"	"	"	"	**2.0 "**		**2.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*76.2 %*	*21-110*		
WO-7 (8.0') (A307601-18)			**Sample Type: Soil**			**Sampled: 07/24/03 12:40**			
Volatile Organic Compounds by EPA Methods 8260B/5035									
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.066 mg/kg**		**0.020**	
Benzene	"	"	"	"	"	ND "		0.0050	
Bromobenzene	"	"	"	"	"	ND "		0.0050	
Bromochloromethane	"	"	"	"	"	ND "		0.0050	
Bromodichloromethane	"	"	"	"	"	ND "		0.0050	
Bromoform	"	"	"	"	"	ND "		0.0050	
Bromomethane	"	"	"	"	"	ND "		0.0050	
n-Butylbenzene	"	"	"	"	"	ND "		0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "		0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "		0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "		0.0050	
Chlorobenzene	"	"	"	"	"	ND "		0.0050	
Chloroethane	"	"	"	"	"	ND "		0.0050	
Chloroform	"	"	"	"	"	ND "		0.0050	
Chloromethane	"	"	"	"	"	ND "		0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "		0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "		0.0050	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-7 (8.0') (A307601-18)		**Sample Type: Soil**				**Sampled: 07/24/03 12:40**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Dibromochloromethane	8260B	"	"	08/01/03	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.015	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-7 (8.0') (A307601-18)			**Sample Type: Soil**			**Sampled: 07/24/03 12:40**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
1,1,2,2-Tetrachloroethane	8260B	"	"	08/01/03	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*130 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*79.6 %*	*65-127*	
Surrogate: Bromofluorobenzene	"	"	"	"		*90.8 %*	*56-130*	
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	ND mg/kg	1.0	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*113 %*	*60-156*	
WO-7 (8.0-8.75') (A307601-19)			**Sample Type: Soil**			**Sampled: 07/24/03 12:40**		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG33003	07/30/03	08/01/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	**9.9 "**	**5.0**	
Copper	"	"	"	"	"	ND "	10	
Nickel	"	"	"	"	"	ND "	10	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-7 (8.0-8.75') (A307601-19)		**Sample Type: Soil**				**Sampled: 07/24/03 12:40**			
Metals by EPA 6000/7000 Series Methods (cont'd)									
Lead	EPA 6010	"	"	08/01/03	"	ND "		5.0	
Zinc	"	"	"	"	"	ND "		10	
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31118	08/01/03	08/08/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		%	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		%	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*96.0 %*	*23-140*		

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Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-7 (8.0-8.75') (A307601-19)			**Sample Type: Soil**			**Sampled: 07/24/03 12:40**		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified								
TPH as Diesel	8015DRO	AG33112	07/31/03	08/01/03	1	**7.3 mg/kg**	**1.0**	
TPH as Motor Oil	"	"	"	"	"	**44 "**	**2.0**	D-12
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*85.5 %* *21-110*		
WO-8 (3.25') (A307601-20)			**Sample Type: Soil**			**Sampled: 07/24/03 13:10**		
Volatile Organic Compounds by EPA Methods 8260B/5035								
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.064 mg/kg**	**0.020**	
Benzene	"	"	"	"	"	ND "	0.0050	
Bromobenzene	"	"	"	"	"	ND "	0.0050	
Bromochloromethane	"	"	"	"	"	ND "	0.0050	
Bromodichloromethane	"	"	"	"	"	ND "	0.0050	
Bromoform	"	"	"	"	"	ND "	0.0050	
Bromomethane	"	"	"	"	"	ND "	0.0050	
n-Butylbenzene	"	"	"	"	"	ND "	0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0050	
Chlorobenzene	"	"	"	"	"	ND "	0.0050	
Chloroethane	"	"	"	"	"	ND "	0.0050	
Chloroform	"	"	"	"	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	

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Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-8 (3.25') (A307601-20)		**Sample Type: Soil**				**Sampled: 07/24/03 13:10**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
1,1-Dichloroethane	8260B	"	"	08/01/03	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.015	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-8 (3.25') (A307601-20)			**Sample Type: Soil**			**Sampled: 07/24/03 13:10**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Trichlorofluoromethane	8260B	"	"	08/01/03	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*134 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*80.8 %*	*65-127*	
Surrogate: Bromofluorobenzene	"	"	"	"		*90.8 %*	*56-130*	
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	ND mg/kg	1.0	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*117 %*	*60-156*	
WO-8 (3.25-4.0') (A307601-21)			**Sample Type: Soil**			**Sampled: 07/24/03 13:10**		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG33003	07/30/03	08/01/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	**27 "**	**5.0**	
Copper	"	"	"	"	"	ND "	10	
Nickel	"	"	"	"	"	**29 "**	**10**	
Lead	"	"	"	"	"	ND "	5.0	
Zinc	"	"	"	"	"	**20 "**	**10**	

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-8 (3.25-4.0') (A307601-21)			**Sample Type: Soil**			**Sampled: 07/24/03 13:10**			
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31118	08/01/03	08/08/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*87.9 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AH30111	08/01/03	08/01/03	1	**2.1 mg/kg**		**1.0**	D-09
TPH as Motor Oil	"	"	"	"	"	**8.0 "**		**2.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*91.9 %*	*21-110*		
WO-8 (6.0') (A307601-22)			**Sample Type: Soil**			**Sampled: 07/24/03 13:30**			
Volatile Organic Compounds by EPA Methods 8260B/5035									
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.081 mg/kg**		**0.020**	
Benzene	"	"	"	"	"	ND "		0.0050	
Bromobenzene	"	"	"	"	"	ND "		0.0050	
Bromochloromethane	"	"	"	"	"	ND "		0.0050	
Bromodichloromethane	"	"	"	"	"	ND "		0.0050	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-8 (6.0') (A307601-22)		**Sample Type: Soil**				**Sampled: 07/24/03 13:30**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Bromoform	8260B	"	"	08/01/03	"	ND "	0.0050	
Bromomethane	"	"	"	"	"	ND "	0.0050	
n-Butylbenzene	"	"	"	"	"	ND "	0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0050	
Chlorobenzene	"	"	"	"	"	ND "	0.0050	
Chloroethane	"	"	"	"	"	ND "	0.0050	
Chloroform	"	"	"	"	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-8 (6.0') (A307601-22)			**Sample Type: Soil**			**Sampled: 07/24/03 13:30**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Ethylbenzene	8260B	"	"	08/01/03	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.015	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*101 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*83.6 %*	*65-127*	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-8 (6.0') (A307601-22)			**Sample Type: Soil**			**Sampled: 07/24/03 13:30**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Surrogate: Bromofluorobenzene	*8260B*	"	"	*08/01/03*		*44.0 %*	*56-130*	*S-04*
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	**3.0 mg/kg**	**1.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*111 %*	*60-156*	
WO-8 (6.0-6.75') (A307601-23)			**Sample Type: Soil**			**Sampled: 07/24/03 13:30**		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG33003	07/30/03	08/01/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	**20 "**	**5.0**	
Copper	"	"	"	"	"	**36 "**	**10**	
Nickel	"	"	"	"	"	**22 "**	**10**	
Lead	"	"	"	"	"	**18 "**	**5.0**	
Zinc	"	"	"	"	"	**50 "**	**10**	
Polychlorinated Biphenyls by EPA Method 8080A								
PCB-1016	8080	AH31118	08/01/03	08/08/03	1	ND mg/kg	0.20	
PCB-1221	"	"	"	"	"	ND "	0.20	
PCB-1232	"	"	"	"	"	ND "	0.20	
PCB-1242	"	"	"	"	"	ND "	0.20	
PCB-1248	"	"	"	"	"	ND "	0.20	
PCB-1254	"	"	"	"	"	ND "	0.20	
PCB-1260	"	"	"	"	"	ND "	0.20	
PCB-1262	"	"	"	"	"	ND "	0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		%	*10-150*	*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		%	*10-150*	*S-06*

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-8 (6.0-6.75') (A307601-23)			**Sample Type: Soil**			**Sampled: 07/24/03 13:30**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*90.3 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AH30111	08/01/03	08/01/03	10	**19 mg/kg**		**10**	D-09
TPH as Motor Oil	"	"	"	"	"	**74 "**		**20**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*67.8 %*	*21-110*		
WO-9 (4.0') (A307601-24)			**Sample Type: Soil**			**Sampled: 07/24/03 14:00**			
Volatile Organic Compounds by EPA Methods 8260B/5035									**R-06**
Acetone	8260B	AH30413	07/25/03	07/31/03	173.2	ND mg/kg		3.5	
Benzene	"	"	"	"	"	ND "		0.87	
Bromobenzene	"	"	"	"	"	ND "		0.87	
Bromochloromethane	"	"	"	"	"	ND "		0.87	
Bromodichloromethane	"	"	"	"	"	ND "		0.87	
Bromoform	"	"	"	"	"	ND "		0.87	
Bromomethane	"	"	"	"	"	ND "		0.87	
n-Butylbenzene	"	"	"	"	"	ND "		0.87	
sec-Butylbenzene	"	"	"	"	"	ND "		0.87	
tert-Butylbenzene	"	"	"	"	"	ND "		0.87	
Carbon tetrachloride	"	"	"	"	"	ND "		0.87	
Chlorobenzene	"	"	"	"	"	ND "		0.87	
Chloroethane	"	"	"	"	"	ND "		0.87	
Chloroform	"	"	"	"	"	ND "		0.87	
Chloromethane	"	"	"	"	"	ND "		0.87	
2-Chlorotoluene	"	"	"	"	"	ND "		0.87	
4-Chlorotoluene	"	"	"	"	"	ND "		0.87	

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Project Manager

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-9 (4.0') (A307601-24)		**Sample Type: Soil**				**Sampled: 07/24/03 14:00**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								**R-06**
Dibromochloromethane	8260B	"	"	07/31/03	"	ND "	0.87	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.87	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.87	
Dibromomethane	"	"	"	"	"	ND "	0.87	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.87	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.87	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.87	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.87	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.87	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.87	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.87	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.87	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.87	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.87	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.87	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.87	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.87	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.87	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.87	
Ethylbenzene	"	"	"	"	"	ND "	0.87	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.87	
Isopropylbenzene	"	"	"	"	"	ND "	0.87	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.87	
Methyl ethyl ketone	"	"	"	"	"	ND "	2.6	
Methyl isobutyl ketone	"	"	"	"	"	ND "	1.7	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.87	
Methylene chloride	"	"	"	"	"	ND "	0.87	
Naphthalene	"	"	"	"	"	ND "	0.87	
n-Propylbenzene	"	"	"	"	"	ND "	0.87	
Styrene	"	"	"	"	"	ND "	0.87	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.87	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-9 (4.0') (A307601-24)			**Sample Type: Soil**			**Sampled: 07/24/03 14:00**			
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)									**R-06**
1,1,2,2-Tetrachloroethane	8260B	"	"	07/31/03	"	ND "		0.87	
Tetrachloroethene	"	"	"	"	"	ND "		0.87	
Toluene	"	"	"	"	"	ND "		0.87	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "		0.87	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "		0.87	
1,1,1-Trichloroethane	"	"	"	"	"	ND "		0.87	
1,1,2-Trichloroethane	"	"	"	"	"	ND "		0.87	
Trichloroethene	"	"	"	"	"	ND "		0.87	
Trichlorofluoromethane	"	"	"	"	"	ND "		0.87	
Trichlorotrifluoroethane	"	"	"	"	"	ND "		0.87	
1,2,3-Trichloropropane	"	"	"	"	"	ND "		0.87	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "		0.87	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "		0.87	
Vinyl chloride	"	"	"	"	"	ND "		0.87	
m,p-Xylene	"	"	"	"	"	ND "		0.87	
o-Xylene	"	"	"	"	"	ND "		0.87	
Xylenes (total)	"	"	"	"	"	ND "		0.87	
Surrogate: Dibromofluoromethane	"	"	"	"		*78.3 %*	*57-144*		
Surrogate: Toluene-d8	"	"	"	"		*89.4 %*	*65-127*		
Surrogate: Bromofluorobenzene	"	"	"	"		*87.7 %*	*56-130*		
TPH Gasoline by GCFID/5035									
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	**4.3 mg/kg**		**1.0**	G-1
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*114 %*	*60-156*		
WO-9 (4.0-4.75') (A307601-25)			**Sample Type: Soil**			**Sampled: 07/24/03 14:00**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AG33003	07/30/03	08/01/03	1	ND mg/kg		1.0	
Chromium	"	"	"	"	"	**30 "**		**5.0**	
Copper	"	"	"	"	"	**10 "**		**10**	
Nickel	"	"	"	"	"	**34 "**		**10**	

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-9 (4.0-4.75') (A307601-25)			**Sample Type: Soil**			**Sampled: 07/24/03 14:00**			
Metals by EPA 6000/7000 Series Methods (cont'd)									
Lead	EPA 6010	"	"	08/01/03	"	ND "		5.0	
Zinc	"	"	"	"	"	**27 "**		**10**	
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31118	08/01/03	08/08/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*83.1 %*	*23-140*		

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-9 (4.0-4.75') (A307601-25)			**Sample Type: Soil**			**Sampled: 07/24/03 14:00**		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified								
TPH as Diesel	8015DRO	AH30111	08/01/03	08/01/03	1	**24 mg/kg**	**1.0**	
TPH as Motor Oil	"	"	"	"	"	**28 "**	**2.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*103 %* *21-110*		
WO-9 (8.0') (A307601-26)			**Sample Type: Soil**			**Sampled: 07/24/03 14:20**		
Volatile Organic Compounds by EPA Methods 8260B/5035								
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**1.0 mg/kg**	**0.035**	
Benzene	"	"	"	"	"	ND "	0.0088	
Bromobenzene	"	"	"	"	"	ND "	0.0088	
Bromochloromethane	"	"	"	"	"	ND "	0.0088	
Bromodichloromethane	"	"	"	"	"	ND "	0.0088	
Bromoform	"	"	"	"	"	ND "	0.0088	
Bromomethane	"	"	"	"	"	ND "	0.0088	
n-Butylbenzene	"	"	"	"	"	ND "	0.0088	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0088	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0088	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0088	
Chlorobenzene	"	"	"	"	"	ND "	0.0088	
Chloroethane	"	"	"	"	"	ND "	0.0088	
Chloroform	"	"	"	"	"	ND "	0.0088	
Chloromethane	"	"	"	"	"	ND "	0.0088	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0088	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0088	
Dibromochloromethane	"	"	"	"	"	ND "	0.0088	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0088	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0088	
Dibromomethane	"	"	"	"	"	ND "	0.0088	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0088	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0088	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0088	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0088	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-9 (8.0') (A307601-26)		**Sample Type: Soil**				**Sampled: 07/24/03 14:20**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
1,1-Dichloroethane	8260B	"	"	08/01/03	"	ND "	0.0088	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0088	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0088	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0088	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0088	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0088	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0088	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0088	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0088	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0088	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0088	
Ethylbenzene	"	"	"	"	"	ND "	0.0088	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0088	
Isopropylbenzene	"	"	"	"	"	ND "	0.0088	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0088	
Methyl ethyl ketone	"	"	"	"	"	**0.16 "**	**0.027**	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.018	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0088	
Methylene chloride	"	"	"	"	"	ND "	0.0088	
Naphthalene	"	"	"	"	"	ND "	0.0088	
n-Propylbenzene	"	"	"	"	"	ND "	0.0088	
Styrene	"	"	"	"	"	ND "	0.0088	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0088	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0088	
Tetrachloroethene	"	"	"	"	"	ND "	0.0088	
Toluene	"	"	"	"	"	ND "	0.0088	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0088	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0088	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0088	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0088	
Trichloroethene	"	"	"	"	"	ND "	0.0088	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-9 (8.0') (A307601-26)			**Sample Type: Soil**			**Sampled: 07/24/03 14:20**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Trichlorofluoromethane	8260B	"	"	08/01/03	"	ND "	0.0088	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0088	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0088	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0088	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0088	
Vinyl chloride	"	"	"	"	"	ND "	0.0088	
m,p-Xylene	"	"	"	"	"	ND "	0.0088	
o-Xylene	"	"	"	"	"	ND "	0.0088	
Xylenes (total)	"	"	"	"	"	ND "	0.0088	
Surrogate: Dibromofluoromethane	"	"	"	"		*116 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*79.2 %*	*65-127*	
Surrogate: Bromofluorobenzene	"	"	"	"		*56.8 %*	*56-130*	
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	ND mg/kg	1.0	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*121 %*	*60-156*	
WO-9 (8.0-8.75') (A307601-27)			**Sample Type: Soil**			**Sampled: 07/24/03 14:20**		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG33003	07/30/03	08/01/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	**27 "**	**5.0**	
Copper	"	"	"	"	"	ND "	10	
Nickel	"	"	"	"	"	**15 "**	**10**	
Lead	"	"	"	"	"	ND "	5.0	
Zinc	"	"	"	"	"	ND "	10	

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8/12/03

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-9 (8.0-8.75') (A307601-27)			**Sample Type: Soil**			**Sampled: 07/24/03 14:20**			
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31118	08/01/03	08/08/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*95.2 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AH30111	08/01/03	08/01/03	1	**1.2 mg/kg**		**1.0**	D-13
TPH as Motor Oil	"	"	"	"	"	**37 "**		**2.0**	D-12
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*96.8 %*	*21-110*		
WO-10 (5.0') (A307601-28)			**Sample Type: Soil**			**Sampled: 07/24/03 14:45**			
Volatile Organic Compounds by EPA Methods 8260B/5035									**R-06**
Acetone	8260B	AH30413	07/25/03	07/31/03	173.2	ND mg/kg		4.5	
Benzene	"	"	"	"	"	ND "		1.1	
Bromobenzene	"	"	"	"	"	ND "		1.1	
Bromochloromethane	"	"	"	"	"	ND "		1.1	
Bromodichloromethane	"	"	"	"	"	ND "		1.1	

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Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-10 (5.0') (A307601-28)		**Sample Type: Soil**				**Sampled: 07/24/03 14:45**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								**R-06**
Bromoform	8260B	"	"	07/31/03	"	ND "	1.1	
Bromomethane	"	"	"	"	"	ND "	1.1	
n-Butylbenzene	"	"	"	"	"	ND "	1.1	
sec-Butylbenzene	"	"	"	"	"	ND "	1.1	
tert-Butylbenzene	"	"	"	"	"	ND "	1.1	
Carbon tetrachloride	"	"	"	"	"	ND "	1.1	
Chlorobenzene	"	"	"	"	"	ND "	1.1	
Chloroethane	"	"	"	"	"	ND "	1.1	
Chloroform	"	"	"	"	"	ND "	1.1	
Chloromethane	"	"	"	"	"	ND "	1.1	
2-Chlorotoluene	"	"	"	"	"	ND "	1.1	
4-Chlorotoluene	"	"	"	"	"	ND "	1.1	
Dibromochloromethane	"	"	"	"	"	ND "	1.1	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	1.1	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	1.1	
Dibromomethane	"	"	"	"	"	ND "	1.1	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	1.1	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	1.1	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	1.1	
Dichlorodifluoromethane	"	"	"	"	"	ND "	1.1	
1,1-Dichloroethane	"	"	"	"	"	ND "	1.1	
1,2-Dichloroethane	"	"	"	"	"	ND "	1.1	
1,1-Dichloroethene	"	"	"	"	"	ND "	1.1	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	1.1	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	1.1	
1,2-Dichloropropane	"	"	"	"	"	ND "	1.1	
1,3-Dichloropropane	"	"	"	"	"	ND "	1.1	
2,2-Dichloropropane	"	"	"	"	"	ND "	1.1	
1,1-Dichloropropene	"	"	"	"	"	ND "	1.1	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	1.1	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	1.1	

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A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-10 (5.0') (A307601-28)		**Sample Type: Soil**				**Sampled: 07/24/03 14:45**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								**R-06**
Ethylbenzene	8260B	"	"	07/31/03	"	ND "	1.1	
Hexachlorobutadiene	"	"	"	"	"	ND "	1.1	
Isopropylbenzene	"	"	"	"	"	ND "	1.1	
p-Isopropyltoluene	"	"	"	"	"	ND "	1.1	
Methyl ethyl ketone	"	"	"	"	"	ND "	3.3	
Methyl isobutyl ketone	"	"	"	"	"	ND "	2.2	
Methyl tert-butyl ether	"	"	"	"	"	ND "	1.1	
Methylene chloride	"	"	"	"	"	ND "	1.1	
Naphthalene	"	"	"	"	"	ND "	1.1	
n-Propylbenzene	"	"	"	"	"	ND "	1.1	
Styrene	"	"	"	"	"	ND "	1.1	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	1.1	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	1.1	
Tetrachloroethene	"	"	"	"	"	ND "	1.1	
Toluene	"	"	"	"	"	ND "	1.1	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	1.1	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	1.1	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	1.1	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	1.1	
Trichloroethene	"	"	"	"	"	ND "	1.1	
Trichlorofluoromethane	"	"	"	"	"	ND "	1.1	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	1.1	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	1.1	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	1.1	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	1.1	
Vinyl chloride	"	"	"	"	"	ND "	1.1	
m,p-Xylene	"	"	"	"	"	ND "	1.1	
o-Xylene	"	"	"	"	"	ND "	1.1	
Xylenes (total)	"	"	"	"	"	ND "	1.1	
Surrogate: Dibromofluoromethane	"	"	"	"		*84.1 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*91.2 %*	*65-127*	

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MFG, Inc.

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Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-10 (5.0') (A307601-28)			**Sample Type: Soil**			**Sampled: 07/24/03 14:45**			
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)									**R-06**
Surrogate: Bromofluorobenzene	*8260B*	"	"	*07/31/03*		*89.8 %*	*56-130*		
TPH Gasoline by GCFID/5035									
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	**9.9 mg/kg**		**1.0**	G-1
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*120 %*	*60-156*		
WO-10 (9.0') (A307601-29)			**Sample Type: Soil**			**Sampled: 07/24/03 15:00**			
Volatile Organic Compounds by EPA Methods 8260B/5035									
Acetone	8260B	AH30109	07/25/03	08/01/03	1	**0.10 mg/kg**		**0.020**	
Benzene	"	"	"	"	"	ND "		0.0050	
Bromobenzene	"	"	"	"	"	ND "		0.0050	
Bromochloromethane	"	"	"	"	"	ND "		0.0050	
Bromodichloromethane	"	"	"	"	"	ND "		0.0050	
Bromoform	"	"	"	"	"	ND "		0.0050	
Bromomethane	"	"	"	"	"	ND "		0.0050	
n-Butylbenzene	"	"	"	"	"	ND "		0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "		0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "		0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "		0.0050	
Chlorobenzene	"	"	"	"	"	ND "		0.0050	
Chloroethane	"	"	"	"	"	ND "		0.0050	
Chloroform	"	"	"	"	"	ND "		0.0050	
Chloromethane	"	"	"	"	"	ND "		0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "		0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "		0.0050	
Dibromochloromethane	"	"	"	"	"	ND "		0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "		0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.0050	
Dibromomethane	"	"	"	"	"	ND "		0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.0050	

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-10 (9.0') (A307601-29)		**Sample Type: Soil**				**Sampled: 07/24/03 15:00**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
1,4-Dichlorobenzene	8260B	"	"	08/01/03	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.015	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-10 (9.0') (A307601-29)			**Sample Type: Soil**			**Sampled: 07/24/03 15:00**		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
1,1,2-Trichloroethane	8260B	"	"	08/01/03	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*114 %*	*57-144*	
Surrogate: Toluene-d8	"	"	"	"		*80.8 %*	*65-127*	
Surrogate: Bromofluorobenzene	"	"	"	"		*82.0 %*	*56-130*	
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH30510	07/25/03	07/30/03	1	ND mg/kg	1.0	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*112 %*	*60-156*	
WO-10 (9.0-9.75') (A307601-30)			**Sample Type: Soil**			**Sampled: 07/24/03 15:00**		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG33003	07/30/03	08/01/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	**30 "**	**5.0**	
Copper	"	"	"	"	"	ND "	10	
Nickel	"	"	"	"	"	**22 "**	**10**	
Lead	"	"	"	"	"	ND "	5.0	
Zinc	"	"	"	"	"	**14 "**	**10**	

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8/12/03

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MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

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Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-10 (9.0-9.75') (A307601-30)			**Sample Type: Soil**			**Sampled: 07/24/03 15:00**			
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31118	08/01/03	08/08/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*85.5 %*	*23-140*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AH30111	08/01/03	08/02/03	1	ND mg/kg		1.0	
TPH as Motor Oil	"	"	"	"	"	**6.5 "**		**2.0**	D-12
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*83.9 %*	*21-110*		
WO-10 (5.0-5.75') (A307601-31)			**Sample Type: Soil**			**Sampled: 07/24/03 14:45**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AG33003	07/30/03	08/01/03	1	ND mg/kg		1.0	
Chromium	"	"	"	"	"	**19 "**		**5.0**	
Copper	"	"	"	"	"	**22 "**		**10**	
Nickel	"	"	"	"	"	**22 "**		**10**	
Lead	"	"	"	"	"	**12 "**		**5.0**	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-10 (5.0-5.75') (A307601-31)			**Sample Type: Soil**			**Sampled: 07/24/03 14:45**			
Metals by EPA 6000/7000 Series Methods (cont'd)									
Zinc	EPA 6010	"	"	08/01/03	"	**57 "**		**10**	
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31118	08/01/03	08/08/03	1	ND mg/kg		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*%*	*10-150*		*S-06*
Surrogate: Decachlorobiphenyl	"	"	"	"		*%*	*10-150*		*S-06*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AG32909	07/26/03	07/28/03	1	ND mg/kg		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	"	"	"	"		*20.2 %*	*23-140*		*S-04*
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AH30111	08/01/03	08/02/03	10	**42 mg/kg**		**10**	
TPH as Motor Oil	"	"	"	"	"	**150 "**		**20**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*97.6 %*	*21-110*		

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Project Manager

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A307601	07/25/2003 15:40	MFGINC	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG32804 - EPA 3051 Microwave										
Blank (AG32804-BLK1)				Prepared: 07/28/03 Analyzed: 07/29/03						
Cadmium	ND	1.0	mg/kg							
Chromium	ND	5.0	"							
Copper	ND	10	"							
Lead	ND	5.0	"							
Nickel	ND	10	"							
Zinc	ND	10	"							
LCS (AG32804-BS1)				Prepared: 07/28/03 Analyzed: 07/29/03						
Cadmium	19.8	1.0	mg/kg	20.0		99.0	85-115			
Chromium	19.9	5.0	"	20.0		99.5	85-115			
Copper	19.9	10	"	20.0		99.5	85-115			
Lead	20.0	5.0	"	20.0		100	85-115			
Nickel	20.1	10	"	20.0		100	85-115			
Zinc	21.1	10	"	20.0		106	87.1-126			
LCS Dup (AG32804-BSD1)				Prepared: 07/28/03 Analyzed: 07/29/03						
Cadmium	20.3	1.0	mg/kg	20.0		102	85-115	2.49	20	
Chromium	20.5	5.0	"	20.0		102	85-115	2.97	20	
Copper	20.6	10	"	20.0		103	85-115	3.46	20	
Lead	20.6	5.0	"	20.0		103	85-115	2.96	20	
Nickel	21.5	10	"	20.0		108	85-115	6.73	20	
Zinc	22.3	10	"	20.0		112	87.1-126	5.53	20	
Duplicate (AG32804-DUP1)				**Source: A307572-01** Prepared: 07/28/03 Analyzed: 07/29/03						
Cadmium	ND	1.0	mg/kg		ND				20	
Chromium	26.0	5.0	"		28			7.41	20	
Copper	30.6	10	"		32			4.47	20	

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A307601	07/25/2003 15:40	MFGINC	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG32804 - EPA 3051 Microwave										
Duplicate (AG32804-DUP1)	**Source: A307572-01**			Prepared: 07/28/03 Analyzed: 07/29/03						
Lead	5.42	5.0	"		6.7			21.1	20	QM-04
Nickel	17.8	10	"		19			6.52	20	
Zinc	81.3	10	"		81			0.370	20	
Matrix Spike (AG32804-MS1)	**Source: A307572-01**			Prepared: 07/28/03 Analyzed: 07/29/03						
Cadmium	20.4	1.0	mg/kg	20.0	ND	101	70-130			
Chromium	39.0	5.0	"	20.0	28	55.0	70-130			QM-04
Copper	49.5	10	"	20.0	32	87.5	70-130			
Lead	25.9	5.0	"	20.0	6.7	96.0	70-130			
Nickel	37.5	10	"	20.0	19	92.5	70-130			
Zinc	111	10	"	20.0	81	150	70-130			QM-4X
Matrix Spike Dup (AG32804-MSD1)	**Source: A307572-01**			Prepared: 07/28/03 Analyzed: 07/29/03						
Cadmium	18.4	1.0	mg/kg	20.0	ND	91.1	70-130	10.3	20	
Chromium	44.8	5.0	"	20.0	28	84.0	70-130	13.8	20	
Copper	50.0	10	"	20.0	32	90.0	70-130	1.01	20	
Lead	24.4	5.0	"	20.0	6.7	88.5	70-130	5.96	20	
Nickel	37.8	10	"	20.0	19	94.0	70-130	0.797	20	
Zinc	103	10	"	20.0	81	110	70-130	7.48	20	
Batch AG33003 - EPA 3051 Microwave										
Blank (AG33003-BLK1)				Prepared: 07/30/03 Analyzed: 08/01/03						
Cadmium	ND	1.0	mg/kg							
Chromium	ND	5.0	"							
Copper	ND	10	"							
Lead	ND	5.0	"							
Nickel	ND	10	"							
Zinc	ND	10	"							

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG33003 - EPA 3051 Microwave										
LCS (AG33003-BS1)				Prepared: 07/30/03 Analyzed: 07/31/03						
Cadmium	19.7	1.0	mg/kg	20.0		98.5	85-115			
Chromium	19.8	5.0	"	20.0		99.0	85-115			
Copper	20.2	10	"	20.0		101	85-115			
Lead	20.6	5.0	"	20.0		103	85-115			
Nickel	19.5	10	"	20.0		97.5	85-115			
Zinc	20.8	10	"	20.0		104	87.1-126			
LCS Dup (AG33003-BSD1)				Prepared: 07/30/03 Analyzed: 07/31/03						
Cadmium	20.0	1.0	mg/kg	20.0		100	85-115	1.51	20	
Chromium	20.2	5.0	"	20.0		101	85-115	2.00	20	
Copper	20.1	10	"	20.0		100	85-115	0.496	20	
Lead	19.8	5.0	"	20.0		99.0	85-115	3.96	20	
Nickel	19.9	10	"	20.0		99.5	85-115	2.03	20	
Zinc	21.1	10	"	20.0		106	87.1-126	1.43	20	
Duplicate (AG33003-DUP1)	**Source: A307601-17**			Prepared: 07/30/03 Analyzed: 08/01/03						
Cadmium	ND	1.0	mg/kg		ND				20	
Chromium	52.4	5.0	"		53			1.14	20	
Copper	ND	10	"		ND				20	
Lead	ND	5.0	"		ND				20	
Nickel	40.1	10	"		38			5.38	20	
Zinc	26.0	10	"		24			8.00	20	
Matrix Spike (AG33003-MS1)	**Source: A307601-17**			Prepared: 07/30/03 Analyzed: 08/01/03						
Cadmium	18.9	1.0	mg/kg	20.0	ND	94.5	70-130			
Chromium	73.7	5.0	"	20.0	53	104	70-130			
Copper	25.5	10	"	20.0	ND	104	70-130			
Lead	24.3	5.0	"	20.0	ND	100	70-130			

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG33003 - EPA 3051 Microwave										
Matrix Spike (AG33003-MS1)	**Source: A307601-17**			Prepared: 07/30/03		Analyzed: 08/01/03				
Nickel	60.5	10	"	20.0	38	112	70-130			
Zinc	47.7	10	"	20.0	24	118	70-130			
Matrix Spike Dup (AG33003-MSD1)	**Source: A307601-17**			Prepared: 07/30/03		Analyzed: 08/01/03				
Cadmium	18.6	1.0	mg/kg	20.0	ND	93.0	70-130	1.60	20	
Chromium	65.8	5.0	"	20.0	53	64.0	70-130	11.3	20	QM-04
Copper	24.6	10	"	20.0	ND	100	70-130	3.59	20	
Lead	24.1	5.0	"	20.0	ND	99.5	70-130	0.826	20	
Nickel	58.8	10	"	20.0	38	104	70-130	2.85	20	
Zinc	44.6	10	"	20.0	24	103	70-130	6.72	20	

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Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
Blank (AH30109-BLK1)				Prepared: 07/30/03 Analyzed: 07/31/03						
Acetone	ND	0.020	mg/kg							
Benzene	ND	0.0050	"							
Bromobenzene	ND	0.0050	"							
Bromochloromethane	ND	0.0050	"							
Bromodichloromethane	ND	0.0050	"							
Bromoform	ND	0.0050	"							
Bromomethane	ND	0.0050	"							
n-Butylbenzene	ND	0.0050	"							
sec-Butylbenzene	ND	0.0050	"							
tert-Butylbenzene	ND	0.0050	"							
Carbon tetrachloride	ND	0.0050	"							
Chlorobenzene	ND	0.0050	"							
Chloroethane	ND	0.0050	"							
Chloroform	ND	0.0050	"							
Chloromethane	ND	0.0050	"							
2-Chlorotoluene	ND	0.0050	"							
4-Chlorotoluene	ND	0.0050	"							
Dibromochloromethane	ND	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Dibromomethane	ND	0.0050	"							
1,2-Dichlorobenzene	ND	0.0050	"							
1,3-Dichlorobenzene	ND	0.0050	"							
1,4-Dichlorobenzene	ND	0.0050	"							
Dichlorodifluoromethane	ND	0.0050	"							
1,1-Dichloroethane	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
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Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
Blank (AH30109-BLK1)				Prepared: 07/30/03 Analyzed: 07/31/03						
1,1-Dichloroethene	ND	0.0050	"							
cis-1,2-Dichloroethene	ND	0.0050	"							
trans-1,2-Dichloroethene	ND	0.0050	"							
1,2-Dichloropropane	ND	0.0050	"							
1,3-Dichloropropane	ND	0.0050	"							
2,2-Dichloropropane	ND	0.0050	"							
1,1-Dichloropropene	ND	0.0050	"							
cis-1,3-Dichloropropene	ND	0.0050	"							
trans-1,3-Dichloropropene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Hexachlorobutadiene	ND	0.0050	"							
Isopropylbenzene	ND	0.0050	"							
p-Isopropyltoluene	ND	0.0050	"							
Methyl ethyl ketone	ND	0.015	"							
Methyl isobutyl ketone	ND	0.010	"							
Methyl tert-butyl ether	ND	0.0050	"							
Methylene chloride	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
n-Propylbenzene	ND	0.0050	"							
Styrene	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
Tetrachloroethene	ND	0.0050	"							
Toluene	ND	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							

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Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
Blank (AH30109-BLK1)				Prepared: 07/30/03 Analyzed: 07/31/03						
1,1,2-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0050	"							
Trichlorofluoromethane	ND	0.0050	"							
Trichlorotrifluoroethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
m,p-Xylene	ND	0.0050	"							
o-Xylene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: Dibromofluoromethane	*30.5*		"	*25.0*		*122*	*57-144*			
Surrogate: Toluene-d8	*22.5*		"	*25.0*		*90.0*	*65-127*			
Surrogate: Bromofluorobenzene	*19.5*		"	*25.0*		*78.0*	*56-130*			
LCS (AH30109-BS1)				Prepared: 07/30/03 Analyzed: 08/01/03						
Acetone	0.0249	0.020	mg/kg	0.0197		126	36-154			
Benzene	0.00509	0.0050	"	0.00500		102	72-123			
Bromobenzene	0.00508	0.0050	"	0.00500		102	71-127			
Bromochloromethane	0.00457	0.0050	"	0.00500		91.4	62-132			
Bromodichloromethane	0.00466	0.0050	"	0.00500		93.2	57-125			
Bromoform	0.00483	0.0050	"	0.00500		96.6	57-138			
Bromomethane	0.00645	0.0050	"	0.00500		129	56-150			
n-Butylbenzene	0.00458	0.0050	"	0.00500		91.6	68-121			
sec-Butylbenzene	0.00493	0.0050	"	0.00500		98.6	68-126			
tert-Butylbenzene	0.00464	0.0050	"	0.00500		92.8	66-124			
Carbon tetrachloride	0.00466	0.0050	"	0.00500		93.2	57-133			

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Project Manager

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
LCS (AH30109-BS1)				Prepared: 07/30/03 Analyzed: 08/01/03						
Chlorobenzene	0.00493	0.0050	"	0.00500		98.6	76-117			
Chloroethane	0.00513	0.0050	"	0.00500		103	59-128			
Chloroform	0.00495	0.0050	"	0.00500		99.0	60-128			
Chloromethane	0.00536	0.0050	"	0.00500		107	45-140			
2-Chlorotoluene	0.00494	0.0050	"	0.00500		98.8	67-127			
4-Chlorotoluene	0.00496	0.0050	"	0.00500		99.2	65-125			
Dibromochloromethane	0.00474	0.0050	"	0.00500		94.8	56-141			
1,2-Dibromo-3-chloropropane	0.00561	0.0050	"	0.00500		112	61-134			
1,2-Dibromoethane (EDB)	0.00554	0.0050	"	0.00500		111	70-132			
Dibromomethane	0.00501	0.0050	"	0.00500		100	66-123			
1,2-Dichlorobenzene	0.00501	0.0050	"	0.00500		100	70-121			
1,3-Dichlorobenzene	0.00486	0.0050	"	0.00500		97.2	65-124			
1,4-Dichlorobenzene	0.00500	0.0050	"	0.00500		100	71-120			
Dichlorodifluoromethane	0.00625	0.0050	"	0.00500		125	52-145			
1,1-Dichloroethane	0.00493	0.0050	"	0.00500		98.6	58-136			
1,2-Dichloroethane	0.00546	0.0050	"	0.00500		109	64-117			
1,1-Dichloroethene	0.00505	0.0050	"	0.00500		101	66-131			
cis-1,2-Dichloroethene	0.00508	0.0050	"	0.00500		102	57-131			
trans-1,2-Dichloroethene	0.00494	0.0050	"	0.00500		98.8	59-127			
1,2-Dichloropropane	0.00506	0.0050	"	0.00500		101	72-121			
1,3-Dichloropropane	0.00558	0.0050	"	0.00500		112	70-135			
2,2-Dichloropropane	0.00481	0.0050	"	0.00500		96.2	38-152			
1,1-Dichloropropene	0.00533	0.0050	"	0.00500		107	73-124			
cis-1,3-Dichloropropene	0.00516	0.0050	"	0.00500		103	66-132			
trans-1,3-Dichloropropene	0.00489	0.0050	"	0.00500		97.8	55-133			
Ethylbenzene	0.00475	0.0050	"	0.00500		95.0	71-125			
Hexachlorobutadiene	0.00533	0.0050	"	0.00500		107	68-131			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
LCS (AH30109-BS1)				Prepared: 07/30/03 Analyzed: 08/01/03						
Isopropylbenzene	0.00513	0.0050	"	0.00500		103	66-125			
p-Isopropyltoluene	0.00438	0.0050	"	0.00500		87.6	62-120			
Methyl ethyl ketone	0.0130	0.015	"	0.0100		130	58-138			
Methyl isobutyl ketone	0.0118	0.010	"	0.00999		118	59-133			
Methyl tert-butyl ether	0.00549	0.0050	"	0.00500		110	71-127			
Methylene chloride	0.00362	0.0050	"	0.00500		72.4	60-128			
Naphthalene	0.00514	0.0050	"	0.00500		103	58-133			
n-Propylbenzene	0.00461	0.0050	"	0.00500		92.2	67-124			
Styrene	0.00436	0.0050	"	0.00500		87.2	65-126			
1,1,1,2-Tetrachloroethane	0.00504	0.0050	"	0.00500		101	65-136			
1,1,2,2-Tetrachloroethane	0.00542	0.0050	"	0.00500		108	40-149			
Tetrachloroethene	0.00527	0.0050	"	0.00500		105	52-148			
Toluene	0.00557	0.0050	"	0.00500		111	72-126			
1,2,3-Trichlorobenzene	0.00539	0.0050	"	0.00500		108	67-124			
1,2,4-Trichlorobenzene	0.00529	0.0050	"	0.00500		106	63-125			
1,1,1-Trichloroethane	0.00484	0.0050	"	0.00500		96.8	55-134			
1,1,2-Trichloroethane	0.00518	0.0050	"	0.00500		104	61-138			
Trichloroethene	0.00533	0.0050	"	0.00500		107	74-129			
Trichlorofluoromethane	0.00514	0.0050	"	0.00500		103	61-132			
Trichlorotrifluoroethane	0.00522	0.0050	"	0.00492		106	52-138			
1,2,3-Trichloropropane	0.00553	0.0050	"	0.00500		111	66-132			
1,2,4-Trimethylbenzene	0.00484	0.0050	"	0.00500		96.8	66-128			
1,3,5-Trimethylbenzene	0.00477	0.0050	"	0.00500		95.4	65-123			
Vinyl chloride	0.00459	0.0050	"	0.00500		91.8	59-135			
m,p-Xylene	0.00955	0.0050	"	0.0100		95.5	67-128			
o-Xylene	0.00486	0.0050	"	0.00500		97.2	67-126			
Xylenes (total)	0.0144	0.0050	"	0.0150		96.0	67-127			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
LCS (AH30109-BS1)				Prepared: 07/30/03 Analyzed: 08/01/03						
Surrogate: Dibromofluoromethane	*25.7*		"	*25.0*		*103*	*57-144*			
Surrogate: Toluene-d8	*24.2*		"	*25.0*		*96.8*	*65-127*			
Surrogate: Bromofluorobenzene	*25.0*		"	*25.0*		*100*	*56-130*			
LCS Dup (AH30109-BSD1)				Prepared: 07/30/03 Analyzed: 08/01/03						**QM-10**
Acetone	0.0225	0.020	mg/kg	0.0197		114	36-154	10.1	25	
Benzene	0.00512	0.0050	"	0.00500		102	72-123	0.588	25	
Bromobenzene	0.00517	0.0050	"	0.00500		103	71-127	1.76	25	
Bromochloromethane	0.00493	0.0050	"	0.00500		98.6	62-132	7.58	25	
Bromodichloromethane	0.00476	0.0050	"	0.00500		95.2	57-125	2.12	25	
Bromoform	0.00418	0.0050	"	0.00500		83.6	57-138	14.4	25	
Bromomethane	0.00667	0.0050	"	0.00500		133	56-150	3.35	25	
n-Butylbenzene	0.00431	0.0050	"	0.00500		86.2	68-121	6.07	25	
sec-Butylbenzene	0.00498	0.0050	"	0.00500		99.6	68-126	1.01	25	
tert-Butylbenzene	0.00483	0.0050	"	0.00500		96.6	66-124	4.01	25	
Carbon tetrachloride	0.00482	0.0050	"	0.00500		96.4	57-133	3.38	25	
Chlorobenzene	0.00497	0.0050	"	0.00500		99.4	76-117	0.808	25	
Chloroethane	0.00522	0.0050	"	0.00500		104	59-128	1.74	25	
Chloroform	0.00511	0.0050	"	0.00500		102	60-128	3.18	25	
Chloromethane	0.00545	0.0050	"	0.00500		109	45-140	1.67	25	
2-Chlorotoluene	0.00507	0.0050	"	0.00500		101	67-127	2.60	25	
4-Chlorotoluene	0.00495	0.0050	"	0.00500		99.0	65-125	0.202	25	
Dibromochloromethane	0.00451	0.0050	"	0.00500		90.2	56-141	4.97	25	
1,2-Dibromo-3-chloropropane	0.00516	0.0050	"	0.00500		103	61-134	8.36	25	
1,2-Dibromoethane (EDB)	0.00502	0.0050	"	0.00500		100	70-132	9.85	25	
Dibromomethane	0.00484	0.0050	"	0.00500		96.8	66-123	3.45	25	
1,2-Dichlorobenzene	0.00507	0.0050	"	0.00500		101	70-121	1.19	25	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
LCS Dup (AH30109-BSD1)				Prepared: 07/30/03 Analyzed: 08/01/03						**QM-10**
1,3-Dichlorobenzene	0.00500	0.0050	"	0.00500		100	65-124	2.84	25	
1,4-Dichlorobenzene	0.00503	0.0050	"	0.00500		101	71-120	0.598	25	
Dichlorodifluoromethane	0.00635	0.0050	"	0.00500		127	52-145	1.59	25	
1,1-Dichloroethane	0.00496	0.0050	"	0.00500		99.2	58-136	0.607	25	
1,2-Dichloroethane	0.00544	0.0050	"	0.00500		109	64-117	0.367	25	
1,1-Dichloroethene	0.00513	0.0050	"	0.00500		103	66-131	1.57	25	
cis-1,2-Dichloroethene	0.00506	0.0050	"	0.00500		101	57-131	0.394	25	
trans-1,2-Dichloroethene	0.00493	0.0050	"	0.00500		98.6	59-127	0.203	25	
1,2-Dichloropropane	0.00511	0.0050	"	0.00500		102	72-121	0.983	25	
1,3-Dichloropropane	0.00526	0.0050	"	0.00500		105	70-135	5.90	25	
2,2-Dichloropropane	0.00458	0.0050	"	0.00500		91.6	38-152	4.90	25	
1,1-Dichloropropene	0.00534	0.0050	"	0.00500		107	73-124	0.187	25	
cis-1,3-Dichloropropene	0.00510	0.0050	"	0.00500		102	66-132	1.17	25	
trans-1,3-Dichloropropene	0.00460	0.0050	"	0.00500		92.0	55-133	6.11	25	
Ethylbenzene	0.00487	0.0050	"	0.00500		97.4	71-125	2.49	25	
Hexachlorobutadiene	0.00545	0.0050	"	0.00500		109	68-131	2.23	25	
Isopropylbenzene	0.00543	0.0050	"	0.00500		109	66-125	5.68	25	
p-Isopropyltoluene	0.00439	0.0050	"	0.00500		87.8	62-120	0.228	25	
Methyl ethyl ketone	0.0118	0.015	"	0.0100		118	58-138	9.68	25	
Methyl isobutyl ketone	0.0110	0.010	"	0.00999		110	59-133	7.02	25	
Methyl tert-butyl ether	0.00514	0.0050	"	0.00500		103	71-127	6.59	25	
Methylene chloride	0.00373	0.0050	"	0.00500		74.6	60-128	2.99	25	
Naphthalene	0.00424	0.0050	"	0.00500		84.8	58-133	19.2	25	
n-Propylbenzene	0.00467	0.0050	"	0.00500		93.4	67-124	1.29	25	
Styrene	0.00447	0.0050	"	0.00500		89.4	65-126	2.49	25	
1,1,1,2-Tetrachloroethane	0.00472	0.0050	"	0.00500		94.4	65-136	6.56	25	
1,1,2,2-Tetrachloroethane	0.00525	0.0050	"	0.00500		105	40-149	3.19	25	

Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
LCS Dup (AH30109-BSD1)				Prepared: 07/30/03 Analyzed: 08/01/03						**QM-10**
Tetrachloroethene	0.00497	0.0050	"	0.00500		99.4	52-148	5.86	25	
Toluene	0.00549	0.0050	"	0.00500		110	72-126	1.45	25	
1,2,3-Trichlorobenzene	0.00487	0.0050	"	0.00500		97.4	67-124	10.1	25	
1,2,4-Trichlorobenzene	0.00479	0.0050	"	0.00500		95.8	63-125	9.92	25	
1,1,1-Trichloroethane	0.00486	0.0050	"	0.00500		97.2	55-134	0.412	25	
1,1,2-Trichloroethane	0.00509	0.0050	"	0.00500		102	61-138	1.75	25	
Trichloroethene	0.00526	0.0050	"	0.00500		105	74-129	1.32	25	
Trichlorofluoromethane	0.00516	0.0050	"	0.00500		103	61-132	0.388	25	
Trichlorotrifluoroethane	0.00531	0.0050	"	0.00492		108	52-138	1.71	25	
1,2,3-Trichloropropane	0.00512	0.0050	"	0.00500		102	66-132	7.70	25	
1,2,4-Trimethylbenzene	0.00474	0.0050	"	0.00500		94.8	66-128	2.09	25	
1,3,5-Trimethylbenzene	0.00474	0.0050	"	0.00500		94.8	65-123	0.631	25	
Vinyl chloride	0.00460	0.0050	"	0.00500		92.0	59-135	0.218	25	
m,p-Xylene	0.00973	0.0050	"	0.0100		97.3	67-128	1.87	25	
o-Xylene	0.00502	0.0050	"	0.00500		100	67-126	3.24	25	
Xylenes (total)	0.0148	0.0050	"	0.0150		98.7	67-127	2.74	25	
Surrogate: Dibromofluoromethane	*26.0*		*"*	*25.0*		*104*	*57-144*			
Surrogate: Toluene-d8	*25.5*		*"*	*25.0*		*102*	*65-127*			
Surrogate: Bromofluorobenzene	*26.3*		*"*	*25.0*		*105*	*56-130*			
Matrix Spike (AH30109-MS1)		**Source: A307595-01**		Prepared: 07/30/03 Analyzed: 08/01/03						
Acetone	0.0279	0.020	mg/kg	0.0197	ND	142	9-181			
Benzene	0.00433	0.0050	"	0.00500	ND	86.6	49-137			
Bromobenzene	0.00456	0.0050	"	0.00500	ND	91.2	55-136			
Bromochloromethane	0.00413	0.0050	"	0.00500	ND	82.6	58-133			
Bromodichloromethane	0.00415	0.0050	"	0.00500	ND	83.0	51-126			
Bromoform	0.00439	0.0050	"	0.00500	ND	87.8	47-138			

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Project Manager

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A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
Matrix Spike (AH30109-MS1)		**Source: A307595-01**		Prepared: 07/30/03		Analyzed: 08/01/03				
Bromomethane	0.00518	0.0050	"	0.00500	ND	104	32-180			
n-Butylbenzene	0.00385	0.0050	"	0.00500	ND	77.0	29-153			
sec-Butylbenzene	0.00446	0.0050	"	0.00500	ND	89.2	44-148			
tert-Butylbenzene	0.00433	0.0050	"	0.00500	ND	86.6	49-141			
Carbon tetrachloride	0.00398	0.0050	"	0.00500	ND	79.6	52-133			
Chlorobenzene	0.00451	0.0050	"	0.00500	ND	90.2	54-133			
Chloroethane	0.00413	0.0050	"	0.00500	ND	82.6	53-136			
Chloroform	0.00417	0.0050	"	0.00500	ND	83.4	61-126			
Chloromethane	0.00456	0.0050	"	0.00500	ND	91.2	57-130			
2-Chlorotoluene	0.00451	0.0050	"	0.00500	ND	90.2	52-140			
4-Chlorotoluene	0.00447	0.0050	"	0.00500	ND	89.4	39-149			
Dibromochloromethane	0.00434	0.0050	"	0.00500	ND	86.8	48-135			
1,2-Dibromo-3-chloropropane	0.00489	0.0050	"	0.00500	ND	97.8	48-139			
1,2-Dibromoethane (EDB)	0.00515	0.0050	"	0.00500	ND	103	36-156			
Dibromomethane	0.00432	0.0050	"	0.00500	ND	86.4	61-128			
1,2-Dichlorobenzene	0.00452	0.0050	"	0.00500	ND	90.4	36-156			
1,3-Dichlorobenzene	0.00445	0.0050	"	0.00500	ND	89.0	45-138			
1,4-Dichlorobenzene	0.00451	0.0050	"	0.00500	ND	90.2	60-136			
Dichlorodifluoromethane	0.00512	0.0050	"	0.00500	ND	102	24-189			
1,1-Dichloroethane	0.00412	0.0050	"	0.00500	ND	82.4	58-142			
1,2-Dichloroethane	0.00472	0.0050	"	0.00500	ND	94.4	55-125			
1,1-Dichloroethene	0.00413	0.0050	"	0.00500	ND	82.6	54-147			
cis-1,2-Dichloroethene	0.00436	0.0050	"	0.00500	ND	87.2	52-129			
trans-1,2-Dichloroethene	0.00406	0.0050	"	0.00500	ND	81.2	61-120			
1,2-Dichloropropane	0.00439	0.0050	"	0.00500	ND	87.8	61-123			
1,3-Dichloropropane	0.00501	0.0050	"	0.00500	ND	100	45-150			
2,2-Dichloropropane	0.00422	0.0050	"	0.00500	ND	84.4	32-160			

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Project Manager

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
Matrix Spike (AH30109-MS1)		**Source: A307595-01**		Prepared: 07/30/03		Analyzed: 08/01/03				
1,1-Dichloropropene	0.00449	0.0050	"	0.00500	ND	89.8	56-131			
cis-1,3-Dichloropropene	0.00441	0.0050	"	0.00500	ND	88.2	55-129			
trans-1,3-Dichloropropene	0.00443	0.0050	"	0.00500	ND	88.6	34-139			
Ethylbenzene	0.00438	0.0050	"	0.00500	ND	87.6	55-138			
Hexachlorobutadiene	0.00441	0.0050	"	0.00500	ND	88.2	16-172			
Isopropylbenzene	0.00477	0.0050	"	0.00500	ND	95.4	51-137			
p-Isopropyltoluene	0.00383	0.0050	"	0.00500	ND	76.6	37-143			
Methyl ethyl ketone	0.0123	0.015	"	0.0100	ND	123	32-146			
Methyl isobutyl ketone	0.00975	0.010	"	0.00999	ND	97.6	29-155			
Methyl tert-butyl ether	0.00510	0.0050	"	0.00500	ND	102	50-140			
Methylene chloride	0.00223	0.0050	"	0.00500	ND	44.6	53-137			QM-01
Naphthalene	0.00379	0.0050	"	0.00500	ND	75.8	26-152			
n-Propylbenzene	0.00422	0.0050	"	0.00500	ND	84.4	47-143			
Styrene	0.00252	0.0050	"	0.00500	ND	50.4	32-150			
1,1,1,2-Tetrachloroethane	0.00446	0.0050	"	0.00500	ND	89.2	39-153			
1,1,2,2-Tetrachloroethane	0.00493	0.0050	"	0.00500	ND	98.6	42-140			
Tetrachloroethene	0.00490	0.0050	"	0.00500	ND	54.0	9-206			
Toluene	0.00492	0.0050	"	0.00500	ND	98.4	50-148			
1,2,3-Trichlorobenzene	0.00418	0.0050	"	0.00500	ND	83.6	31-148			
1,2,4-Trichlorobenzene	0.00406	0.0050	"	0.00500	ND	81.2	30-148			
1,1,1-Trichloroethane	0.00423	0.0050	"	0.00500	ND	84.6	52-132			
1,1,2-Trichloroethane	0.00496	0.0050	"	0.00500	ND	99.2	39-152			
Trichloroethene	0.00449	0.0050	"	0.00500	ND	89.8	50-146			
Trichlorofluoromethane	0.00428	0.0050	"	0.00500	ND	85.6	51-150			
Trichlorotrifluoroethane	0.00440	0.0050	"	0.00492	ND	89.4	51-138			
1,2,3-Trichloropropane	0.00506	0.0050	"	0.00500	ND	101	38-152			
1,2,4-Trimethylbenzene	0.00471	0.0050	"	0.00500	ND	94.2	43-150			

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30109 - EPA 5035 MS										
Matrix Spike (AH30109-MS1)		**Source: A307595-01**		Prepared: 07/30/03		Analyzed: 08/01/03				
1,3,5-Trimethylbenzene	0.00468	0.0050	"	0.00500	ND	93.6	47-140			
Vinyl chloride	0.00380	0.0050	"	0.00500	ND	76.0	46-150			
m,p-Xylene	0.00900	0.0050	"	0.0100	ND	90.0	54-139			
o-Xylene	0.00433	0.0050	"	0.00500	ND	86.6	58-136			
Xylenes (total)	0.0133	0.0050	"	0.0150	ND	88.7	54-139			
Surrogate: Dibromofluoromethane	*24.0*		"	*25.0*		*96.0*	*57-144*			
Surrogate: Toluene-d8	*24.9*		"	*25.0*		*99.6*	*65-127*			
Surrogate: Bromofluorobenzene	*25.6*		"	*25.0*		*102*	*56-130*			
Batch AH30413 - EPA 5035 MS										
Blank (AH30413-BLK1)				Prepared & Analyzed: 07/30/03						
Acetone	ND	3.5	mg/kg							
Benzene	ND	0.87	"							
Bromobenzene	ND	0.87	"							
Bromochloromethane	ND	0.87	"							
Bromodichloromethane	ND	0.87	"							
Bromoform	ND	0.87	"							
Bromomethane	ND	0.87	"							
n-Butylbenzene	ND	0.87	"							
sec-Butylbenzene	ND	0.87	"							
tert-Butylbenzene	ND	0.87	"							
Carbon tetrachloride	ND	0.87	"							
Chlorobenzene	ND	0.87	"							
Chloroethane	ND	0.87	"							
Chloroform	ND	0.87	"							
Chloromethane	ND	0.87	"							

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Project Manager

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Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30413 - EPA 5035 MS										
Blank (AH30413-BLK1)				Prepared & Analyzed: 07/30/03						
2-Chlorotoluene	ND	0.87	"							
4-Chlorotoluene	ND	0.87	"							
Dibromochloromethane	ND	0.87	"							
1,2-Dibromo-3-chloropropane	ND	0.87	"							
1,2-Dibromoethane (EDB)	ND	0.87	"							
Dibromomethane	ND	0.87	"							
1,2-Dichlorobenzene	ND	0.87	"							
1,3-Dichlorobenzene	ND	0.87	"							
1,4-Dichlorobenzene	ND	0.87	"							
Dichlorodifluoromethane	ND	0.87	"							
1,1-Dichloroethane	ND	0.87	"							
1,2-Dichloroethane	ND	0.87	"							
1,1-Dichloroethene	ND	0.87	"							
cis-1,2-Dichloroethene	ND	0.87	"							
trans-1,2-Dichloroethene	ND	0.87	"							
1,2-Dichloropropane	ND	0.87	"							
1,3-Dichloropropane	ND	0.87	"							
2,2-Dichloropropane	ND	0.87	"							
1,1-Dichloropropene	ND	0.87	"							
cis-1,3-Dichloropropene	ND	0.87	"							
trans-1,3-Dichloropropene	ND	0.87	"							
Ethylbenzene	ND	0.87	"							
Hexachlorobutadiene	ND	0.87	"							
Isopropylbenzene	ND	0.87	"							
p-Isopropyltoluene	ND	0.87	"							
Methyl ethyl ketone	ND	2.6	"							
Methyl isobutyl ketone	ND	1.7	"							

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Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30413 - EPA 5035 MS										
Blank (AH30413-BLK1)			Prepared & Analyzed: 07/30/03							
Methyl tert-butyl ether	ND	0.87	"							
Methylene chloride	ND	0.87	"							
Naphthalene	ND	0.87	"							
n-Propylbenzene	ND	0.87	"							
Styrene	ND	0.87	"							
1,1,1,2-Tetrachloroethane	ND	0.87	"							
1,1,2,2-Tetrachloroethane	ND	0.87	"							
Tetrachloroethene	ND	0.87	"							
Toluene	ND	0.87	"							
1,2,3-Trichlorobenzene	ND	0.87	"							
1,2,4-Trichlorobenzene	ND	0.87	"							
1,1,1-Trichloroethane	ND	0.87	"							
1,1,2-Trichloroethane	ND	0.87	"							
Trichloroethene	ND	0.87	"							
Trichlorofluoromethane	ND	0.87	"							
Trichlorotrifluoroethane	ND	0.87	"							
1,2,3-Trichloropropane	ND	0.87	"							
1,2,4-Trimethylbenzene	ND	0.87	"							
1,3,5-Trimethylbenzene	ND	0.87	"							
Vinyl chloride	ND	0.87	"							
m,p-Xylene	ND	0.87	"							
o-Xylene	ND	0.87	"							
Xylenes (total)	ND	0.87	"							
Surrogate: Dibromofluoromethane	*4.10*		"	*4.33*		*94.7*	*57-144*			
Surrogate: Toluene-d8	*3.87*		"	*4.33*		*89.4*	*65-127*			
Surrogate: Bromofluorobenzene	*3.72*		"	*4.33*		*85.9*	*56-130*			

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30413 - EPA 5035 MS										
LCS (AH30413-BS1)				Prepared & Analyzed: 07/30/03						
Acetone	5.63	3.5	mg/kg	6.84		82.3	36-154			
Benzene	1.55	0.87	"	1.73		89.6	72-123			
Bromobenzene	1.53	0.87	"	1.73		88.4	71-127			
Bromochloromethane	1.88	0.87	"	1.73		109	62-132			
Bromodichloromethane	1.76	0.87	"	1.73		102	57-125			
Bromoform	1.70	0.87	"	1.73		98.3	57-138			
Bromomethane	1.87	0.87	"	1.73		108	56-150			
n-Butylbenzene	1.61	0.87	"	1.73		93.1	68-121			
sec-Butylbenzene	1.68	0.87	"	1.73		97.1	68-126			
tert-Butylbenzene	1.66	0.87	"	1.73		96.0	66-124			
Carbon tetrachloride	1.96	0.87	"	1.73		113	57-133			
Chlorobenzene	1.52	0.87	"	1.73		87.9	76-117			
Chloroethane	1.60	0.87	"	1.73		92.5	59-128			
Chloroform	1.63	0.87	"	1.73		94.2	60-128			
Chloromethane	1.11	0.87	"	1.73		64.2	45-140			
2-Chlorotoluene	1.57	0.87	"	1.73		90.8	67-127			
4-Chlorotoluene	1.59	0.87	"	1.73		91.9	65-125			
Dibromochloromethane	1.65	0.87	"	1.73		95.4	56-141			
1,2-Dibromo-3-chloropropane	1.43	0.87	"	1.73		82.7	61-134			
1,2-Dibromoethane (EDB)	1.53	0.87	"	1.73		88.4	70-132			
Dibromomethane	1.56	0.87	"	1.73		90.2	66-123			
1,2-Dichlorobenzene	1.50	0.87	"	1.73		86.7	70-121			
1,3-Dichlorobenzene	1.54	0.87	"	1.73		89.0	65-124			
1,4-Dichlorobenzene	1.51	0.87	"	1.73		87.3	71-120			
Dichlorodifluoromethane	1.31	0.87	"	1.73		75.7	52-145			
1,1-Dichloroethane	1.58	0.87	"	1.73		91.3	58-136			
1,2-Dichloroethane	1.60	0.87	"	1.73		92.5	64-117			

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30413 - EPA 5035 MS										
LCS (AH30413-BS1)				Prepared & Analyzed: 07/30/03						
1,1-Dichloroethene	1.66	0.87	"	1.73		96.0	66-131			
cis-1,2-Dichloroethene	1.70	0.87	"	1.73		98.3	57-131			
trans-1,2-Dichloroethene	1.56	0.87	"	1.73		90.2	59-127			
1,2-Dichloropropane	1.60	0.87	"	1.73		92.5	72-121			
1,3-Dichloropropane	1.56	0.87	"	1.73		90.2	70-135			
2,2-Dichloropropane	1.79	0.87	"	1.73		103	38-152			
1,1-Dichloropropene	1.64	0.87	"	1.73		94.8	73-124			
cis-1,3-Dichloropropene	1.74	0.87	"	1.73		101	66-132			
trans-1,3-Dichloropropene	1.60	0.87	"	1.73		92.5	55-133			
Ethylbenzene	1.58	0.87	"	1.73		91.3	71-125			
Hexachlorobutadiene	1.66	0.87	"	1.73		96.0	68-131			
Isopropylbenzene	1.59	0.87	"	1.73		91.9	66-125			
p-Isopropyltoluene	1.57	0.87	"	1.73		90.8	62-120			
Methyl ethyl ketone	3.10	2.6	"	3.48		89.1	58-138			
Methyl isobutyl ketone	2.98	1.7	"	3.46		86.1	59-133			
Methyl tert-butyl ether	1.50	0.87	"	1.73		86.7	71-127			
Methylene chloride	1.35	0.87	"	1.73		78.0	60-128			
Naphthalene	1.34	0.87	"	1.73		77.5	58-133			
n-Propylbenzene	1.66	0.87	"	1.73		96.0	67-124			
Styrene	1.65	0.87	"	1.73		95.4	65-126			
1,1,1,2-Tetrachloroethane	1.74	0.87	"	1.73		101	65-136			
1,1,2,2-Tetrachloroethane	1.43	0.87	"	1.73		82.7	40-149			
Tetrachloroethene	1.59	0.87	"	1.73		91.9	52-148			
Toluene	1.53	0.87	"	1.73		88.4	72-126			
1,2,3-Trichlorobenzene	1.46	0.87	"	1.73		84.4	67-124			
1,2,4-Trichlorobenzene	1.49	0.87	"	1.73		86.1	63-125			
1,1,1-Trichloroethane	1.74	0.87	"	1.73		101	55-134			

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Project Manager

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30413 - EPA 5035 MS										
LCS (AH30413-BS1)				Prepared & Analyzed: 07/30/03						
1,1,2-Trichloroethane	1.56	0.87	"	1.73		90.2	61-138			
Trichloroethene	1.70	0.87	"	1.73		98.3	74-129			
Trichlorofluoromethane	1.63	0.87	"	1.73		94.2	61-132			
Trichlorotrifluoroethane	1.72	0.87	"	1.70		101	52-138			
1,2,3-Trichloropropane	1.43	0.87	"	1.73		82.7	66-132			
1,2,4-Trimethylbenzene	1.64	0.87	"	1.73		94.8	66-128			
1,3,5-Trimethylbenzene	1.62	0.87	"	1.73		93.6	65-123			
Vinyl chloride	1.73	0.87	"	1.73		100	59-135			
m,p-Xylene	3.17	0.87	"	3.46		91.6	67-128			
o-Xylene	1.63	0.87	"	1.73		94.2	67-126			
Xylenes (total)	4.80	0.87	"	5.20		92.3	67-127			
Surrogate: Dibromofluoromethane	*3.97*		"	*4.33*		*91.7*	*57-144*			
Surrogate: Toluene-d8	*3.87*		"	*4.33*		*89.4*	*65-127*			
Surrogate: Bromofluorobenzene	*3.77*		"	*4.33*		*87.1*	*56-130*			
LCS Dup (AH30413-BSD1)				Prepared & Analyzed: 07/30/03						**QM-10**
Acetone	5.81	3.5	mg/kg	6.84		84.9	36-154	3.15	25	
Benzene	1.45	0.87	"	1.73		83.8	72-123	6.67	25	
Bromobenzene	1.50	0.87	"	1.73		86.7	71-127	1.98	25	
Bromochloromethane	1.68	0.87	"	1.73		97.1	62-132	11.2	25	
Bromodichloromethane	1.53	0.87	"	1.73		88.4	57-125	14.0	25	
Bromoform	1.60	0.87	"	1.73		92.5	57-138	6.06	25	
Bromomethane	2.08	0.87	"	1.73		120	56-150	10.6	25	
n-Butylbenzene	1.47	0.87	"	1.73		85.0	68-121	9.09	25	
sec-Butylbenzene	1.56	0.87	"	1.73		90.2	68-126	7.41	25	
tert-Butylbenzene	1.53	0.87	"	1.73		88.4	66-124	8.15	25	
Carbon tetrachloride	1.68	0.87	"	1.73		97.1	57-133	15.4	25	

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Cheryl Watson For Sheri L. Speaks
Project Manager

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30413 - EPA 5035 MS										
LCS Dup (AH30413-BSD1)				Prepared & Analyzed: 07/30/03						**QM-10**
Chlorobenzene	1.45	0.87	"	1.73		83.8	76-117	4.71	25	
Chloroethane	1.59	0.87	"	1.73		91.9	59-128	0.627	25	
Chloroform	1.57	0.87	"	1.73		90.8	60-128	3.75	25	
Chloromethane	1.61	0.87	"	1.73		93.1	45-140	36.8	25	QL-04
2-Chlorotoluene	1.47	0.87	"	1.73		85.0	67-127	6.58	25	
4-Chlorotoluene	1.51	0.87	"	1.73		87.3	65-125	5.16	25	
Dibromochloromethane	1.45	0.87	"	1.73		83.8	56-141	12.9	25	
1,2-Dibromo-3-chloropropane	1.57	0.87	"	1.73		90.8	61-134	9.33	25	
1,2-Dibromoethane (EDB)	1.49	0.87	"	1.73		86.1	70-132	2.65	25	
Dibromomethane	1.48	0.87	"	1.73		85.5	66-123	5.26	25	
1,2-Dichlorobenzene	1.47	0.87	"	1.73		85.0	70-121	2.02	25	
1,3-Dichlorobenzene	1.50	0.87	"	1.73		86.7	65-124	2.63	25	
1,4-Dichlorobenzene	1.47	0.87	"	1.73		85.0	71-120	2.68	25	
Dichlorodifluoromethane	1.49	0.87	"	1.73		86.1	52-145	12.9	25	
1,1-Dichloroethane	1.49	0.87	"	1.73		86.1	58-136	5.86	25	
1,2-Dichloroethane	1.53	0.87	"	1.73		88.4	64-117	4.47	25	
1,1-Dichloroethene	1.53	0.87	"	1.73		88.4	66-131	8.15	25	
cis-1,2-Dichloroethene	1.49	0.87	"	1.73		86.1	57-131	13.2	25	
trans-1,2-Dichloroethene	1.51	0.87	"	1.73		87.3	59-127	3.26	25	
1,2-Dichloropropane	1.51	0.87	"	1.73		87.3	72-121	5.79	25	
1,3-Dichloropropane	1.54	0.87	"	1.73		89.0	70-135	1.29	25	
2,2-Dichloropropane	1.67	0.87	"	1.73		96.5	38-152	6.94	25	
1,1-Dichloropropene	1.55	0.87	"	1.73		89.6	73-124	5.64	25	
cis-1,3-Dichloropropene	1.62	0.87	"	1.73		93.6	66-132	7.14	25	
trans-1,3-Dichloropropene	1.50	0.87	"	1.73		86.7	55-133	6.45	25	
Ethylbenzene	1.49	0.87	"	1.73		86.1	71-125	5.86	25	
Hexachlorobutadiene	1.62	0.87	"	1.73		93.6	68-131	2.44	25	

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30413 - EPA 5035 MS										
LCS Dup (AH30413-BSD1)				Prepared & Analyzed: 07/30/03						**QM-10**
Isopropylbenzene	1.48	0.87	"	1.73		85.5	66-125	7.17	25	
p-Isopropyltoluene	1.43	0.87	"	1.73		82.7	62-120	9.33	25	
Methyl ethyl ketone	3.33	2.6	"	3.48		95.7	58-138	7.15	25	
Methyl isobutyl ketone	3.38	1.7	"	3.46		97.7	59-133	12.6	25	
Methyl tert-butyl ether	1.58	0.87	"	1.73		91.3	71-127	5.19	25	
Methylene chloride	1.33	0.87	"	1.73		76.9	60-128	1.49	25	
Naphthalene	1.42	0.87	"	1.73		82.1	58-133	5.80	25	
n-Propylbenzene	1.56	0.87	"	1.73		90.2	67-124	6.21	25	
Styrene	1.55	0.87	"	1.73		89.6	65-126	6.25	25	
1,1,1,2-Tetrachloroethane	1.58	0.87	"	1.73		91.3	65-136	9.64	25	
1,1,2,2-Tetrachloroethane	1.61	0.87	"	1.73		93.1	40-149	11.8	25	
Tetrachloroethene	1.50	0.87	"	1.73		86.7	52-148	5.83	25	
Toluene	1.47	0.87	"	1.73		85.0	72-126	4.00	25	
1,2,3-Trichlorobenzene	1.39	0.87	"	1.73		80.3	67-124	4.91	25	
1,2,4-Trichlorobenzene	1.42	0.87	"	1.73		82.1	63-125	4.81	25	
1,1,1-Trichloroethane	1.60	0.87	"	1.73		92.5	55-134	8.38	25	
1,1,2-Trichloroethane	1.49	0.87	"	1.73		86.1	61-138	4.59	25	
Trichloroethene	1.57	0.87	"	1.73		90.8	74-129	7.95	25	
Trichlorofluoromethane	1.61	0.87	"	1.73		93.1	61-132	1.23	25	
Trichlorotrifluoroethane	1.72	0.87	"	1.70		101	52-138	0.00	25	
1,2,3-Trichloropropane	1.63	0.87	"	1.73		94.2	66-132	13.1	25	
1,2,4-Trimethylbenzene	1.50	0.87	"	1.73		86.7	66-128	8.92	25	
1,3,5-Trimethylbenzene	1.47	0.87	"	1.73		85.0	65-123	9.71	25	
Vinyl chloride	1.59	0.87	"	1.73		91.9	59-135	8.43	25	
m,p-Xylene	2.99	0.87	"	3.46		86.4	67-128	5.84	25	
o-Xylene	1.52	0.87	"	1.73		87.9	67-126	6.98	25	
Xylenes (total)	4.50	0.87	"	5.20		86.5	67-127	6.45	25	

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30413 - EPA 5035 MS										
LCS Dup (AH30413-BSD1)				Prepared & Analyzed: 07/30/03						**QM-10**
Surrogate: Dibromofluoromethane	*3.86*		"	*4.33*		*89.1*	*57-144*			
Surrogate: Toluene-d8	*3.87*		"	*4.33*		*89.4*	*65-127*			
Surrogate: Bromofluorobenzene	*3.86*		"	*4.33*		*89.1*	*56-130*			

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8/12/03

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Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Polychlorinated Biphenyls by EPA Method 8080A - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31117 - Solvent Extraction										
Blank (AH31117-BLK1)				Prepared: 07/31/03 Analyzed: 08/07/03						
PCB-1016	ND	0.20	mg/kg							
PCB-1221	ND	0.20	"							
PCB-1232	ND	0.20	"							
PCB-1242	ND	0.20	"							
PCB-1248	ND	0.20	"							
PCB-1254	ND	0.20	"							
PCB-1260	ND	0.20	"							
PCB-1262	ND	0.20	"							
Surrogate: Tetrachloro-meta-xylene	*0.0000780*		"	*0.000750*		*10.4*	*10-150*			
Surrogate: Decachlorobiphenyl	*0.000310*		"	*0.000750*		*41.3*	*10-150*			
LCS (AH31117-BS1)				Prepared: 07/31/03 Analyzed: 08/07/03						
PCB-1016	0.0390	0.20	mg/kg	0.0500		78.0	41-166			
PCB-1260	0.0300	0.20	"	0.0500		60.0	41-166			
Surrogate: Tetrachloro-meta-xylene	*0.000160*		"	*0.000750*		*21.3*	*10-150*			
Surrogate: Decachlorobiphenyl	*0.000530*		"	*0.000750*		*70.7*	*10-150*			
Matrix Spike (AH31117-MS1)	**Source: A307601-02**			Prepared: 07/31/03 Analyzed: 08/07/03						
PCB-1016	ND	0.20	mg/kg	0.0500	ND		41-166			QM-05
PCB-1260	0.0260	0.20	"	0.0500	ND	52.0	41-166			
Surrogate: Tetrachloro-meta-xylene	*0.00*		"	*0.000750*			*10-150*			*S-06*
Surrogate: Decachlorobiphenyl	*0.00*		"	*0.000750*			*10-150*			*S-06*
Matrix Spike Dup (AH31117-MSD1)	**Source: A307601-02**			Prepared: 07/31/03 Analyzed: 08/07/03						
PCB-1016	ND	0.20	mg/kg	0.0500	ND		41-166		35	QM-05
PCB-1260	0.0200	0.20	"	0.0500	ND	40.0	41-166	26.1	35	QM-05

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8/12/03

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Polychlorinated Biphenyls by EPA Method 8080A - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31117 - Solvent Extraction										
Matrix Spike Dup (AH31117-MSD1)	**Source: A307601-02**			Prepared: 07/31/03 Analyzed: 08/07/03						
Surrogate: Tetrachloro-meta-xylene	*0.00*		"	*0.000750*			*10-150*			*S-06*
Surrogate: Decachlorobiphenyl	*0.00*		"	*0.000750*			*10-150*			*S-06*
Batch AH31118 - Solvent Extraction										
Blank (AH31118-BLK1)				Prepared: 08/01/03 Analyzed: 08/08/03						
PCB-1016	ND	0.20	mg/kg							
PCB-1221	ND	0.20	"							
PCB-1232	ND	0.20	"							
PCB-1242	ND	0.20	"							
PCB-1248	ND	0.20	"							
PCB-1254	ND	0.20	"							
PCB-1260	ND	0.20	"							
PCB-1262	ND	0.20	"							
Surrogate: Tetrachloro-meta-xylene	*0.000130*		"	*0.000750*		*17.3*	*10-150*			
Surrogate: Decachlorobiphenyl	*0.000460*		"	*0.000750*		*61.3*	*10-150*			
LCS (AH31118-BS1)				Prepared: 08/01/03 Analyzed: 08/08/03						
PCB-1016	0.0230	0.20	mg/kg	0.0500		46.0	41-166			
PCB-1260	0.0290	0.20	"	0.0500		58.0	41-166			
Surrogate: Tetrachloro-meta-xylene	*0.000120*		"	*0.000750*		*16.0*	*10-150*			
Surrogate: Decachlorobiphenyl	*0.000580*		"	*0.000750*		*77.3*	*10-150*			
Matrix Spike (AH31118-MS1)	**Source: A307601-21**			Prepared: 08/01/03 Analyzed: 08/08/03						
PCB-1016	0.0270	0.20	mg/kg	0.0500	ND	54.0	41-166			
PCB-1260	0.0410	0.20	"	0.0500	ND	82.0	41-166			
Surrogate: Tetrachloro-meta-xylene	*0.000780*		"	*0.000750*		*104*	*10-150*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Polychlorinated Biphenyls by EPA Method 8080A - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31118 - Solvent Extraction										
Matrix Spike (AH31118-MS1)	**Source: A307601-21**			Prepared: 08/01/03		Analyzed: 08/08/03				
Surrogate: Decachlorobiphenyl	*0.000580*		"	*0.000750*		*77.3*	*10-150*			
Matrix Spike Dup (AH31118-MSD1)	**Source: A307601-21**			Prepared: 08/01/03		Analyzed: 08/08/03				
PCB-1016	0.0330	0.20	mg/kg	0.0500	ND	66.0	41-166	20.0	35	
PCB-1260	0.0430	0.20	"	0.0500	ND	86.0	41-166	4.76	35	
Surrogate: Tetrachloro-meta-xylene	*0.000850*		"	*0.000750*		*113*	*10-150*			
Surrogate: Decachlorobiphenyl	*0.000620*		"	*0.000750*		*82.7*	*10-150*			

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Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

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 AG32909 - Solvent Extraction										
Blank (AG32909-BLK1)				Prepared: 07/26/03 Analyzed: 07/28/03						
2,4,6-Trichlorophenol	ND	1.0	mg/kg							
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	*0.101*		"	*0.124*		*81.5*	*23-140*			
LCS (AG32909-BS1)				Prepared: 07/26/03 Analyzed: 07/28/03						
2,4,6-Trichlorophenol	0.0192	1.0	mg/kg	0.0250		76.8	32-116			
2,3,5,6-Tetrachlorophenol	0.0150	1.0	"	0.0250		60.0	18-80			
2,3,4,6-Tetrachlorophenol	0.0177	1.0	"	0.0250		70.8	28-89			
2,3,4,5-Tetrachlorophenol	0.0198	1.0	"	0.0250		79.2	54-85			
Pentachlorophenol	0.0184	1.0	"	0.0250		73.6	17-85			
Surrogate: Tribromophenol	*0.106*		"	*0.124*		*85.5*	*23-140*			
LCS Dup (AG32909-BSD1)				Prepared: 07/26/03 Analyzed: 07/28/03						
2,4,6-Trichlorophenol	0.0179	1.0	mg/kg	0.0250		71.6	32-116	7.01	50	
2,3,5,6-Tetrachlorophenol	0.0154	1.0	"	0.0250		61.6	18-80	2.63	50	
2,3,4,6-Tetrachlorophenol	0.0199	1.0	"	0.0250		79.6	28-89	11.7	50	
2,3,4,5-Tetrachlorophenol	0.0202	1.0	"	0.0250		80.8	54-85	2.00	50	
Pentachlorophenol	0.0199	1.0	"	0.0250		79.6	17-85	7.83	50	
Surrogate: Tribromophenol	*0.102*		"	*0.124*		*82.3*	*23-140*			

Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

TPH as Diesel and Motor Oil by EPA Method 8015 Modified - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG33112 - CA LUFT - orb shaker										
Blank (AG33112-BLK1)				Prepared & Analyzed: 07/31/03						
TPH as Diesel	ND	1.0	mg/kg							
TPH as Motor Oil	ND	2.0	"							
Surrogate: 1,4-Bromofluorobenzene	*10.4*		"	*12.4*		*83.9*	*21-110*			
LCS (AG33112-BS1)				Prepared & Analyzed: 07/31/03						
TPH as Diesel	42.4	1.0	mg/kg	41.8		101	63-126			
TPH as Motor Oil	43.3	2.0	"	41.8		104	57-139			
Surrogate: 1,4-Bromofluorobenzene	*11.8*		"	*12.4*		*95.2*	*21-110*			
Matrix Spike (AG33112-MS1)		**Source: A307573-01**		Prepared: 07/31/03 Analyzed: 08/01/03						
TPH as Diesel	41.0	1.0	mg/kg	41.8	ND	96.1	61-134			
TPH as Motor Oil	43.6	2.0	"	41.8	3.0	97.1	61-126			
Surrogate: 1,4-Bromofluorobenzene	*11.2*		"	*12.4*		*90.3*	*21-110*			
Matrix Spike Dup (AG33112-MSD1)		**Source: A307573-01**		Prepared: 07/31/03 Analyzed: 08/01/03						
TPH as Diesel	43.1	1.0	mg/kg	41.8	ND	101	61-134	4.99	20	
TPH as Motor Oil	45.2	2.0	"	41.8	3.0	101	61-126	3.60	20	
Surrogate: 1,4-Bromofluorobenzene	*11.7*		"	*12.4*		*94.4*	*21-110*			
Batch AH30111 - CA LUFT - orb shaker										
Blank (AH30111-BLK1)				Prepared & Analyzed: 08/01/03						
TPH as Diesel	ND	1.0	mg/kg							
TPH as Motor Oil	ND	2.0	"							
Surrogate: 1,4-Bromofluorobenzene	*12.4*		"	*12.4*		*100*	*21-110*			
LCS (AH30111-BS1)				Prepared & Analyzed: 08/01/03						
TPH as Diesel	42.9	1.0	mg/kg	41.8		103	63-126			

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Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

TPH as Diesel and Motor Oil by EPA Method 8015 Modified - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30111 - CA LUFT - orb shaker										
LCS (AH30111-BS1)				Prepared & Analyzed: 08/01/03						
TPH as Motor Oil	42.8	2.0	"	41.8		102	57-139			
Surrogate: 1,4-Bromofluorobenzene	*12.5*		"	*12.4*		*101*	*21-110*			
Matrix Spike (AH30111-MS1)		**Source: A307601-21**		Prepared & Analyzed: 08/01/03						
TPH as Diesel	47.0	1.0	mg/kg	41.8	2.1	107	61-134			
TPH as Motor Oil	56.5	2.0	"	41.8	8.0	116	61-126			
Surrogate: 1,4-Bromofluorobenzene	*11.9*		"	*12.4*		*96.0*	*21-110*			
Matrix Spike Dup (AH30111-MSD1)		**Source: A307601-21**		Prepared & Analyzed: 08/01/03						
TPH as Diesel	44.6	1.0	mg/kg	41.8	2.1	102	61-134	5.24	20	
TPH as Motor Oil	54.0	2.0	"	41.8	8.0	110	61-126	4.52	20	
Surrogate: 1,4-Bromofluorobenzene	*11.5*		"	*12.4*		*92.7*	*21-110*			

Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

TPH Gasoline by GCFID/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30510 - EPA 5035 GC										
Blank (AH30510-BLK1)				Prepared & Analyzed: 07/30/03						
TPH as Gasoline	ND	1.0	mg/kg							
Surrogate: 1,4-Bromofluorobenzene	*6.25*		"	*4.00*		*156*	*60-156*			
LCS (AH30510-BS1)				Prepared & Analyzed: 07/30/03						
TPH as Gasoline	26.6	1.0	mg/kg	23.2		115	77-139			
Surrogate: 1,4-Bromofluorobenzene	*5.57*		"	*4.00*		*139*	*60-156*			
LCS Dup (AH30510-BSD1)				Prepared & Analyzed: 07/30/03						**QM-10**
TPH as Gasoline	29.0	1.0	mg/kg	23.2		125	77-139	8.63	20	
Surrogate: 1,4-Bromofluorobenzene	*4.28*		"	*4.00*		*107*	*60-156*			

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8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Notes and Definitions

C-01	Value of this analyte is above the highest low-level calibration point and below the lowest high-level calibration point due to sample non-homogeneity.
D-09	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
D-12	The sample chromatogram contains resolved peaks within the motor oil range that do not resemble motor oil.
D-13	The sample chromatogram contains resolved peaks within the diesel range that do not resemble diesel.
G-1	Results in the gasoline organics range are primarily due to overlap from a diesel range product
QL-04	The LCS/LCSD RPD for this analyte was outside of established control limits. Batch accepted based on acceptable recovery for both LCS/LCSD.
QM-01	The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
QM-04	High RPD and/or poor percent recovery may reflect sample non-homogeneity.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-10	LCSD prepared with analytical batch due to insufficient sample for MS/MSD.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
R-02	Elevated Reporting Limits due to limited sample volume.
R-06	The Reporting Limits for this analysis have been raised to account for matrix interference.
S-04	The surrogate recovery for this sample is outside of established control limits possibly due to a sample matrix effect.

Cheryl Watson For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

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San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 11:41
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307601	07/25/2003 15:40	MFGINC	

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
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

McCampbell Analytical Inc.

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

Alpha Analytical Laboratories 208 Mason Street Ukiah, CA 95482	Client Project ID: #A307601	Date Sampled: 07/24/03
		Date Received: 07/29/03
	Client Contact: Sheri Speaks	Date Reported: 08/04/03
	Client P.O.:	Date Completed: 08/04/03

WorkOrder: 0307485

August 04, 2003

Dear Sheri:

Enclosed are:

1). the results of **16** analyzed samples from your **#A307601 project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

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

Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-001A
Client ID	WO-3(3.25-4.0')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<3.3	10	0.33	Acenaphthylene	ND<3.3	10	0.33
Anthracene	ND<3.3	10	0.33	Benzidine	ND<16	10	1.6
Benzoic Acid	ND<16	10	1.6	Benz(a)anthracene	ND<3.3	10	0.33
Benzo(b)fluoranthene	ND<3.3	10	0.33	Benzo(k)fluoranthene	ND<3.3	10	0.33
Benzo(g,h,i)perylene	ND<3.3	10	0.33	Benzo(a)pyrene	ND<3.3	10	0.33
Benzyl Alcohol	ND<6.6	10	0.66	Bis (2-chloroethoxy) Methane	ND<3.3	10	0.33
Bis (2-chloroethyl) Ether	ND<3.3	10	0.33	Bis (2-chloroisopropyl) Ether	ND<3.3	10	0.33
Bis (2-ethylhexyl) Phthalate	ND<3.3	10	0.33	4-Bromophenyl Phenyl Ether	ND<3.3	10	0.33
Butylbenzyl Phthalate	ND<3.3	10	0.33	4-Chloroaniline	ND<6.6	10	0.66
4-Chloro-3-methylphenol	ND<3.3	10	0.33	2-Chloronaphthalene	ND<3.3	10	0.33
2-Chlorophenol	ND<3.3	10	0.33	4-Chlorophenyl Phenyl Ether	ND<3.3	10	0.33
Chrysene	ND<3.3	10	0.33	Dibenzo(a,h)anthracene	ND<3.3	10	0.33
Dibenzofuran	ND<3.3	10	0.33	Di-n-butyl Phthalate	ND<3.3	10	0.33
1,2-Dichlorobenzene	ND<3.3	10	0.33	1,3-Dichlorobenzene	ND<3.3	10	0.33
1,4-Dichlorobenzene	ND<3.3	10	0.33	3,3-Dichlorobenzidine	ND<6.6	10	0.66
2,4-Dichlorophenol	ND<3.3	10	0.33	Diethyl Phthalate	ND<3.3	10	0.33
2,4-Dimethylphenol	ND<3.3	10	0.33	Dimethyl Phthalate	ND<3.3	10	0.33
4,6-Dinitro-2-methylphenol	ND<16	10	1.6	2,4-Dinitrophenol	ND<16	10	1.6
2,4-Dinitrotoluene	ND<3.3	10	0.33	2,6-Dinitrotoluene	ND<3.3	10	0.33
Di-n-octyl Phthalate	ND<3.3	10	0.33	1,2-Diphenylhydrazine	ND<3.3	10	0.33
Fluoranthene	ND<3.3	10	0.33	Fluorene	ND<3.3	10	0.33
Hexachlorobenzene	ND<3.3	10	0.33	Hexachlorobutadiene	ND<3.3	10	0.33
Hexachlorocyclopentadiene	ND<16	10	1.6	Hexachloroethane	ND<3.3	10	0.33
Indeno (1,2,3-cd) pyrene	ND<3.3	10	0.33	Isophorone	ND<3.3	10	0.33
2-Methylnaphthalene	ND<3.3	10	0.33	2-Methylphenol (o-Cresol)	ND<3.3	10	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<3.3	10	0.33	Naphthalene	ND<3.3	10	0.33
2-Nitroaniline	ND<16	10	1.6	3-Nitroaniline	ND<16	10	1.6
4-Nitroaniline	ND<16	10	1.6	2-Nitrophenol	ND<16	10	1.6
4-Nitrophenol	ND<16	10	1.6	Nitrobenzene	ND<3.3	10	0.33
N-Nitrosodiphenylamine	ND<3.3	10	0.33	N-Nitrosodi-n-propylamine	ND<3.3	10	0.33
Pentachlorophenol	ND<16	10	1.6	Phenanthrene	ND<3.3	10	0.33
Phenol	ND<3.3	10	0.33	Pyrene	ND<3.3	10	0.33
1,2,4-Trichlorobenzene	ND<3.3	10	0.33	2,4,5-Trichlorophenol	ND<3.3	10	0.33
2,4,6-Trichlorophenol	ND<3.3	10	0.33				

Surrogate Recoveries (%)

%SS1:	81.6	%SS2:	86.1
%SS3:	82.9	%SS4:	79.4
%SS5:	66.1	%SS6:	76.3

Comments: j

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical Inc.
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Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-002A
Client ID	WO-3(6.0-6.5')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<3.3	10	0.33	Acenaphthylene	ND<3.3	10	0.33
Anthracene	ND<3.3	10	0.33	Benzidine	ND<16	10	1.6
Benzoic Acid	ND<16	10	1.6	Benz(a)anthracene	ND<3.3	10	0.33
Benzo(b)fluoranthene	ND<3.3	10	0.33	Benzo(k)fluoranthene	ND<3.3	10	0.33
Benzo(g,h,i)perylene	ND<3.3	10	0.33	Benzo(a)pyrene	ND<3.3	10	0.33
Benzyl Alcohol	ND<6.6	10	0.66	Bis (2-chloroethoxy) Methane	ND<3.3	10	0.33
Bis (2-chloroethyl) Ether	ND<3.3	10	0.33	Bis (2-chloroisopropyl) Ether	ND<3.3	10	0.33
Bis (2-ethylhexyl) Phthalate	ND<3.3	10	0.33	4-Bromophenyl Phenyl Ether	ND<3.3	10	0.33
Butylbenzyl Phthalate	ND<3.3	10	0.33	4-Chloroaniline	ND<6.6	10	0.66
4-Chloro-3-methylphenol	ND<3.3	10	0.33	2-Chloronaphthalene	ND<3.3	10	0.33
2-Chlorophenol	ND<3.3	10	0.33	4-Chlorophenyl Phenyl Ether	ND<3.3	10	0.33
Chrysene	ND<3.3	10	0.33	Dibenzo(a,h)anthracene	ND<3.3	10	0.33
Dibenzofuran	ND<3.3	10	0.33	Di-n-butyl Phthalate	ND<3.3	10	0.33
1,2-Dichlorobenzene	ND<3.3	10	0.33	1,3-Dichlorobenzene	ND<3.3	10	0.33
1,4-Dichlorobenzene	ND<3.3	10	0.33	3,3-Dichlorobenzidine	ND<6.6	10	0.66
2,4-Dichlorophenol	ND<3.3	10	0.33	Diethyl Phthalate	ND<3.3	10	0.33
2,4-Dimethylphenol	ND<3.3	10	0.33	Dimethyl Phthalate	ND<3.3	10	0.33
4,6-Dinitro-2-methylphenol	ND<16	10	1.6	2,4-Dinitrophenol	ND<16	10	1.6
2,4-Dinitrotoluene	ND<3.3	10	0.33	2,6-Dinitrotoluene	ND<3.3	10	0.33
Di-n-octyl Phthalate	ND<3.3	10	0.33	1,2-Diphenylhydrazine	ND<3.3	10	0.33
Fluoranthene	ND<3.3	10	0.33	Fluorene	ND<3.3	10	0.33
Hexachlorobenzene	ND<3.3	10	0.33	Hexachlorobutadiene	ND<3.3	10	0.33
Hexachlorocyclopentadiene	ND<16	10	1.6	Hexachloroethane	ND<3.3	10	0.33
Indeno (1,2,3-cd) pyrene	ND<3.3	10	0.33	Isophorone	ND<3.3	10	0.33
2-Methylnaphthalene	ND<3.3	10	0.33	2-Methylphenol (o-Cresol)	ND<3.3	10	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<3.3	10	0.33	Naphthalene	ND<3.3	10	0.33
2-Nitroaniline	ND<16	10	1.6	3-Nitroaniline	ND<16	10	1.6
4-Nitroaniline	ND<16	10	1.6	2-Nitrophenol	ND<16	10	1.6
4-Nitrophenol	ND<16	10	1.6	Nitrobenzene	ND<3.3	10	0.33
N-Nitrosodiphenylamine	ND<3.3	10	0.33	N-Nitrosodi-n-propylamine	ND<3.3	10	0.33
Pentachlorophenol	ND<16	10	1.6	Phenanthrene	ND<3.3	10	0.33
Phenol	ND<3.3	10	0.33	Pyrene	ND<3.3	10	0.33
1,2,4-Trichlorobenzene	ND<3.3	10	0.33	2,4,5-Trichlorophenol	ND<3.3	10	0.33
2,4,6-Trichlorophenol	ND<3.3	10	0.33				

Surrogate Recoveries (%)

%SS1:	82.8	%SS2:	91.4
%SS3:	82.5	%SS4:	77.7
%SS5:	60.5	%SS6:	76.8

Comments: j

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0307485

Lab ID	0307485-003A
Client ID	WO-4(5.5-6.25')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<33	100	0.33	Acenaphthylene	ND<33	100	0.33
Anthracene	ND<33	100	0.33	Benzidine	ND<160	100	1.6
Benzoic Acid	ND<160	100	1.6	Benz(a)anthracene	ND<33	100	0.33
Benzo(b)fluoranthene	ND<33	100	0.33	Benzo(k)fluoranthene	ND<33	100	0.33
Benzo(g,h,i)perylene	ND<33	100	0.33	Benzo(a)pyrene	ND<33	100	0.33
Benzyl Alcohol	ND<66	100	0.66	Bis (2-chloroethoxy) Methane	ND<33	100	0.33
Bis (2-chloroethyl) Ether	ND<33	100	0.33	Bis (2-chloroisopropyl) Ether	ND<33	100	0.33
Bis (2-ethylhexyl) Phthalate	ND<33	100	0.33	4-Bromophenyl Phenyl Ether	ND<33	100	0.33
Butylbenzyl Phthalate	ND<33	100	0.33	4-Chloroaniline	ND<66	100	0.66
4-Chloro-3-methylphenol	ND<33	100	0.33	2-Chloronaphthalene	ND<33	100	0.33
2-Chlorophenol	ND<33	100	0.33	4-Chlorophenyl Phenyl Ether	ND<33	100	0.33
Chrysene	ND<33	100	0.33	Dibenzo(a,h)anthracene	ND<33	100	0.33
Dibenzofuran	ND<33	100	0.33	Di-n-butyl Phthalate	ND<33	100	0.33
1,2-Dichlorobenzene	ND<33	100	0.33	1,3-Dichlorobenzene	ND<33	100	0.33
1,4-Dichlorobenzene	ND<33	100	0.33	3,3-Dichlorobenzidine	ND<66	100	0.66
2,4-Dichlorophenol	ND<33	100	0.33	Diethyl Phthalate	ND<33	100	0.33
2,4-Dimethylphenol	ND<33	100	0.33	Dimethyl Phthalate	ND<33	100	0.33
4,6-Dinitro-2-methylphenol	ND<160	100	1.6	2,4-Dinitrophenol	ND<160	100	1.6
2,4-Dinitrotoluene	ND<33	100	0.33	2,6-Dinitrotoluene	ND<33	100	0.33
Di-n-octyl Phthalate	ND<33	100	0.33	1,2-Diphenylhydrazine	ND<33	100	0.33
Fluoranthene	ND<33	100	0.33	Fluorene	ND<33	100	0.33
Hexachlorobenzene	ND<33	100	0.33	Hexachlorobutadiene	ND<33	100	0.33
Hexachlorocyclopentadiene	ND<160	100	1.6	Hexachloroethane	ND<33	100	0.33
Indeno (1,2,3-cd) pyrene	ND<33	100	0.33	Isophorone	ND<33	100	0.33
2-Methylnaphthalene	ND<33	100	0.33	2-Methylphenol (o-Cresol)	ND<33	100	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<33	100	0.33	Naphthalene	ND<33	100	0.33
2-Nitroaniline	ND<160	100	1.6	3-Nitroaniline	ND<160	100	1.6
4-Nitroaniline	ND<160	100	1.6	2-Nitrophenol	ND<160	100	1.6
4-Nitrophenol	ND<160	100	1.6	Nitrobenzene	ND<33	100	0.33
N-Nitrosodiphenylamine	ND<33	100	0.33	N-Nitrosodi-n-propylamine	ND<33	100	0.33
Pentachlorophenol	ND<160	100	1.6	Phenanthrene	ND<33	100	0.33
Phenol	ND<33	100	0.33	Pyrene	ND<33	100	0.33
1,2,4-Trichlorobenzene	ND<33	100	0.33	2,4,5-Trichlorophenol	ND<33	100	0.33
2,4,6-Trichlorophenol	ND<33	100	0.33				

Surrogate Recoveries (%)

%SS1:	39.7	%SS2:	46.8
%SS3:	80.6	%SS4:	78.5
%SS5:	---#	%SS6:	79.5

Comments: j

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-004A
Client ID	WO-4(8.5-9.25')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.6	5.0	0.33	Acenaphthylene	ND<1.6	5.0	0.33
Anthracene	ND<1.6	5.0	0.33	Benzidine	ND<8.0	5.0	1.6
Benzoic Acid	ND<8.0	5.0	1.6	Benz(a)anthracene	ND<1.6	5.0	0.33
Benzo(b)fluoranthene	ND<1.6	5.0	0.33	Benzo(k)fluoranthene	ND<1.6	5.0	0.33
Benzo(g,h,i)perylene	ND<1.6	5.0	0.33	Benzo(a)pyrene	ND<1.6	5.0	0.33
Benzyl Alcohol	ND<3.3	5.0	0.66	Bis (2-chloroethoxy) Methane	ND<1.6	5.0	0.33
Bis (2-chloroethyl) Ether	ND<1.6	5.0	0.33	Bis (2-chloroisopropyl) Ether	ND<1.6	5.0	0.33
Bis (2-ethylhexyl) Phthalate	ND<1.6	5.0	0.33	4-Bromophenyl Phenyl Ether	ND<1.6	5.0	0.33
Butylbenzyl Phthalate	ND<1.6	5.0	0.33	4-Chloroaniline	ND<3.3	5.0	0.66
4-Chloro-3-methylphenol	ND<1.6	5.0	0.33	2-Chloronaphthalene	ND<1.6	5.0	0.33
2-Chlorophenol	ND<1.6	5.0	0.33	4-Chlorophenyl Phenyl Ether	ND<1.6	5.0	0.33
Chrysene	ND<1.6	5.0	0.33	Dibenzo(a,h)anthracene	ND<1.6	5.0	0.33
Dibenzofuran	ND<1.6	5.0	0.33	Di-n-butyl Phthalate	ND<1.6	5.0	0.33
1,2-Dichlorobenzene	ND<1.6	5.0	0.33	1,3-Dichlorobenzene	ND<1.6	5.0	0.33
1,4-Dichlorobenzene	ND<1.6	5.0	0.33	3,3-Dichlorobenzidine	ND<3.3	5.0	0.66
2,4-Dichlorophenol	ND<1.6	5.0	0.33	Diethyl Phthalate	ND<1.6	5.0	0.33
2,4-Dimethylphenol	ND<1.6	5.0	0.33	Dimethyl Phthalate	ND<1.6	5.0	0.33
4,6-Dinitro-2-methylphenol	ND<8.0	5.0	1.6	2,4-Dinitrophenol	ND<8.0	5.0	1.6
2,4-Dinitrotoluene	ND<1.6	5.0	0.33	2,6-Dinitrotoluene	ND<1.6	5.0	0.33
Di-n-octyl Phthalate	ND<1.6	5.0	0.33	1,2-Diphenylhydrazine	ND<1.6	5.0	0.33
Fluoranthene	ND<1.6	5.0	0.33	Fluorene	ND<1.6	5.0	0.33
Hexachlorobenzene	ND<1.6	5.0	0.33	Hexachlorobutadiene	ND<1.6	5.0	0.33
Hexachlorocyclopentadiene	ND<8.0	5.0	1.6	Hexachloroethane	ND<1.6	5.0	0.33
Indeno (1,2,3-cd) pyrene	ND<1.6	5.0	0.33	Isophorone	ND<1.6	5.0	0.33
2-Methylnaphthalene	ND<1.6	5.0	0.33	2-Methylphenol (o-Cresol)	ND<1.6	5.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.6	5.0	0.33	Naphthalene	ND<1.6	5.0	0.33
2-Nitroaniline	ND<8.0	5.0	1.6	3-Nitroaniline	ND<8.0	5.0	1.6
4-Nitroaniline	ND<8.0	5.0	1.6	2-Nitrophenol	ND<8.0	5.0	1.6
4-Nitrophenol	ND<8.0	5.0	1.6	Nitrobenzene	ND<1.6	5.0	0.33
N-Nitrosodiphenylamine	ND<1.6	5.0	0.33	N-Nitrosodi-n-propylamine	ND<1.6	5.0	0.33
Pentachlorophenol	ND<8.0	5.0	1.6	Phenanthrene	ND<1.6	5.0	0.33
Phenol	ND<1.6	5.0	0.33	Pyrene	ND<1.6	5.0	0.33
1,2,4-Trichlorobenzene	ND<1.6	5.0	0.33	2,4,5-Trichlorophenol	ND<1.6	5.0	0.33
2,4,6-Trichlorophenol	ND<1.6	5.0	0.33				

Surrogate Recoveries (%)

%SS1:	80.8	%SS2:	84.6
%SS3:	84.8	%SS4:	91.1
%SS5:	80.4	%SS6:	80.5

Comments: j

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-005A
Client ID	WO-5(3.25-4.0')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.6	5.0	0.33	Acenaphthylene	ND<1.6	5.0	0.33
Anthracene	ND<1.6	5.0	0.33	Benzidine	ND<8.0	5.0	1.6
Benzoic Acid	ND<8.0	5.0	1.6	Benz(a)anthracene	ND<1.6	5.0	0.33
Benzo(b)fluoranthene	ND<1.6	5.0	0.33	Benzo(k)fluoranthene	ND<1.6	5.0	0.33
Benzo(g,h,i)perylene	ND<1.6	5.0	0.33	Benzo(a)pyrene	ND<1.6	5.0	0.33
Benzyl Alcohol	ND<3.3	5.0	0.66	Bis (2-chloroethoxy) Methane	ND<1.6	5.0	0.33
Bis (2-chloroethyl) Ether	ND<1.6	5.0	0.33	Bis (2-chloroisopropyl) Ether	ND<1.6	5.0	0.33
Bis (2-ethylhexyl) Phthalate	ND<1.6	5.0	0.33	4-Bromophenyl Phenyl Ether	ND<1.6	5.0	0.33
Butylbenzyl Phthalate	ND<1.6	5.0	0.33	4-Chloroaniline	ND<3.3	5.0	0.66
4-Chloro-3-methylphenol	ND<1.6	5.0	0.33	2-Chloronaphthalene	ND<1.6	5.0	0.33
2-Chlorophenol	ND<1.6	5.0	0.33	4-Chlorophenyl Phenyl Ether	ND<1.6	5.0	0.33
Chrysene	ND<1.6	5.0	0.33	Dibenzo(a,h)anthracene	ND<1.6	5.0	0.33
Dibenzofuran	ND<1.6	5.0	0.33	Di-n-butyl Phthalate	ND<1.6	5.0	0.33
1,2-Dichlorobenzene	ND<1.6	5.0	0.33	1,3-Dichlorobenzene	ND<1.6	5.0	0.33
1,4-Dichlorobenzene	ND<1.6	5.0	0.33	3,3-Dichlorobenzidine	ND<3.3	5.0	0.66
2,4-Dichlorophenol	ND<1.6	5.0	0.33	Diethyl Phthalate	ND<1.6	5.0	0.33
2,4-Dimethylphenol	ND<1.6	5.0	0.33	Dimethyl Phthalate	ND<1.6	5.0	0.33
4,6-Dinitro-2-methylphenol	ND<8.0	5.0	1.6	2,4-Dinitrophenol	ND<8.0	5.0	1.6
2,4-Dinitrotoluene	ND<1.6	5.0	0.33	2,6-Dinitrotoluene	ND<1.6	5.0	0.33
Di-n-octyl Phthalate	ND<1.6	5.0	0.33	1,2-Diphenylhydrazine	ND<1.6	5.0	0.33
Fluoranthene	ND<1.6	5.0	0.33	Fluorene	ND<1.6	5.0	0.33
Hexachlorobenzene	ND<1.6	5.0	0.33	Hexachlorobutadiene	ND<1.6	5.0	0.33
Hexachlorocyclopentadiene	ND<8.0	5.0	1.6	Hexachloroethane	ND<1.6	5.0	0.33
Indeno (1,2,3-cd) pyrene	ND<1.6	5.0	0.33	Isophorone	ND<1.6	5.0	0.33
2-Methylnaphthalene	ND<1.6	5.0	0.33	2-Methylphenol (o-Cresol)	ND<1.6	5.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.6	5.0	0.33	Naphthalene	ND<1.6	5.0	0.33
2-Nitroaniline	ND<8.0	5.0	1.6	3-Nitroaniline	ND<8.0	5.0	1.6
4-Nitroaniline	ND<8.0	5.0	1.6	2-Nitrophenol	ND<8.0	5.0	1.6
4-Nitrophenol	ND<8.0	5.0	1.6	Nitrobenzene	ND<1.6	5.0	0.33
N-Nitrosodiphenylamine	ND<1.6	5.0	0.33	N-Nitrosodi-n-propylamine	ND<1.6	5.0	0.33
Pentachlorophenol	ND<8.0	5.0	1.6	Phenanthrene	ND<1.6	5.0	0.33
Phenol	ND<1.6	5.0	0.33	Pyrene	ND<1.6	5.0	0.33
1,2,4-Trichlorobenzene	ND<1.6	5.0	0.33	2,4,5-Trichlorophenol	ND<1.6	5.0	0.33
2,4,6-Trichlorophenol	ND<1.6	5.0	0.33				

Surrogate Recoveries (%)

%SS1:	82.2	%SS2:	85.8
%SS3:	88.1	%SS4:	91.9
%SS5:	75.9	%SS6:	79.4

Comments: j

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0307485

Lab ID	0307485-006A
Client ID	WO-5(8.0-8.75')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.6	5.0	0.33	Acenaphthylene	ND<1.6	5.0	0.33
Anthracene	ND<1.6	5.0	0.33	Benzidine	ND<8.0	5.0	1.6
Benzoic Acid	ND<8.0	5.0	1.6	Benz(a)anthracene	ND<1.6	5.0	0.33
Benzo(b)fluoranthene	ND<1.6	5.0	0.33	Benzo(k)fluoranthene	ND<1.6	5.0	0.33
Benzo(g,h,i)perylene	ND<1.6	5.0	0.33	Benzo(a)pyrene	ND<1.6	5.0	0.33
Benzyl Alcohol	ND<3.3	5.0	0.66	Bis (2-chloroethoxy) Methane	ND<1.6	5.0	0.33
Bis (2-chloroethyl) Ether	ND<1.6	5.0	0.33	Bis (2-chloroisopropyl) Ether	ND<1.6	5.0	0.33
Bis (2-ethylhexyl) Phthalate	ND<1.6	5.0	0.33	4-Bromophenyl Phenyl Ether	ND<1.6	5.0	0.33
Butylbenzyl Phthalate	ND<1.6	5.0	0.33	4-Chloroaniline	ND<3.3	5.0	0.66
4-Chloro-3-methylphenol	ND<1.6	5.0	0.33	2-Chloronaphthalene	ND<1.6	5.0	0.33
2-Chlorophenol	ND<1.6	5.0	0.33	4-Chlorophenyl Phenyl Ether	ND<1.6	5.0	0.33
Chrysene	ND<1.6	5.0	0.33	Dibenzo(a,h)anthracene	ND<1.6	5.0	0.33
Dibenzofuran	ND<1.6	5.0	0.33	Di-n-butyl Phthalate	ND<1.6	5.0	0.33
1,2-Dichlorobenzene	ND<1.6	5.0	0.33	1,3-Dichlorobenzene	ND<1.6	5.0	0.33
1,4-Dichlorobenzene	ND<1.6	5.0	0.33	3,3-Dichlorobenzidine	ND<3.3	5.0	0.66
2,4-Dichlorophenol	ND<1.6	5.0	0.33	Diethyl Phthalate	ND<1.6	5.0	0.33
2,4-Dimethylphenol	ND<1.6	5.0	0.33	Dimethyl Phthalate	ND<1.6	5.0	0.33
4,6-Dinitro-2-methylphenol	ND<8.0	5.0	1.6	2,4-Dinitrophenol	ND<8.0	5.0	1.6
2,4-Dinitrotoluene	ND<1.6	5.0	0.33	2,6-Dinitrotoluene	ND<1.6	5.0	0.33
Di-n-octyl Phthalate	ND<1.6	5.0	0.33	1,2-Diphenylhydrazine	ND<1.6	5.0	0.33
Fluoranthene	ND<1.6	5.0	0.33	Fluorene	ND<1.6	5.0	0.33
Hexachlorobenzene	ND<1.6	5.0	0.33	Hexachlorobutadiene	ND<1.6	5.0	0.33
Hexachlorocyclopentadiene	ND<8.0	5.0	1.6	Hexachloroethane	ND<1.6	5.0	0.33
Indeno (1,2,3-cd) pyrene	ND<1.6	5.0	0.33	Isophorone	ND<1.6	5.0	0.33
2-Methylnaphthalene	ND<1.6	5.0	0.33	2-Methylphenol (o-Cresol)	ND<1.6	5.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.6	5.0	0.33	Naphthalene	ND<1.6	5.0	0.33
2-Nitroaniline	ND<8.0	5.0	1.6	3-Nitroaniline	ND<8.0	5.0	1.6
4-Nitroaniline	ND<8.0	5.0	1.6	2-Nitrophenol	ND<8.0	5.0	1.6
4-Nitrophenol	ND<8.0	5.0	1.6	Nitrobenzene	ND<1.6	5.0	0.33
N-Nitrosodiphenylamine	ND<1.6	5.0	0.33	N-Nitrosodi-n-propylamine	ND<1.6	5.0	0.33
Pentachlorophenol	ND<8.0	5.0	1.6	Phenanthrene	ND<1.6	5.0	0.33
Phenol	ND<1.6	5.0	0.33	Pyrene	ND<1.6	5.0	0.33
1,2,4-Trichlorobenzene	ND<1.6	5.0	0.33	2,4,5-Trichlorophenol	ND<1.6	5.0	0.33
2,4,6-Trichlorophenol	ND<1.6	5.0	0.33				

Surrogate Recoveries (%)

%SS1:	82.1	%SS2:	86.4
%SS3:	87.3	%SS4:	91.4
%SS5:	81.1	%SS6:	79.6

Comments: j

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-007A
Client ID	WO-6(4.5-5.25')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	85.9	%SS2:	83.1
%SS3:	93.2	%SS4:	80.2
%SS5:	99.2	%SS6:	78.4

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-008A
Client ID	WO-6(9.0-9.75')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	95.2	%SS2:	89.4
%SS3:	102	%SS4:	86.7
%SS5:	108	%SS6:	86.4

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-009A
Client ID	WO-7(4.0-4.75')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	88.4	%SS2:	85.4
%SS3:	95.1	%SS4:	80.9
%SS5:	96.3	%SS6:	79.6

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0307485

Lab ID	0307485-010A
Client ID	WO-7(8.0-8.75')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.6	5.0	0.33	Acenaphthylene	ND<1.6	5.0	0.33
Anthracene	ND<1.6	5.0	0.33	Benzidine	ND<8.0	5.0	1.6
Benzoic Acid	ND<8.0	5.0	1.6	Benz(a)anthracene	ND<1.6	5.0	0.33
Benzo(b)fluoranthene	ND<1.6	5.0	0.33	Benzo(k)fluoranthene	ND<1.6	5.0	0.33
Benzo(g,h,i)perylene	ND<1.6	5.0	0.33	Benzo(a)pyrene	ND<1.6	5.0	0.33
Benzyl Alcohol	ND<3.3	5.0	0.66	Bis (2-chloroethoxy) Methane	ND<1.6	5.0	0.33
Bis (2-chloroethyl) Ether	ND<1.6	5.0	0.33	Bis (2-chloroisopropyl) Ether	ND<1.6	5.0	0.33
Bis (2-ethylhexyl) Phthalate	ND<1.6	5.0	0.33	4-Bromophenyl Phenyl Ether	ND<1.6	5.0	0.33
Butylbenzyl Phthalate	ND<1.6	5.0	0.33	4-Chloroaniline	ND<3.3	5.0	0.66
4-Chloro-3-methylphenol	ND<1.6	5.0	0.33	2-Chloronaphthalene	ND<1.6	5.0	0.33
2-Chlorophenol	ND<1.6	5.0	0.33	4-Chlorophenyl Phenyl Ether	ND<1.6	5.0	0.33
Chrysene	ND<1.6	5.0	0.33	Dibenzo(a,h)anthracene	ND<1.6	5.0	0.33
Dibenzofuran	ND<1.6	5.0	0.33	Di-n-butyl Phthalate	ND<1.6	5.0	0.33
1,2-Dichlorobenzene	ND<1.6	5.0	0.33	1,3-Dichlorobenzene	ND<1.6	5.0	0.33
1,4-Dichlorobenzene	ND<1.6	5.0	0.33	3,3-Dichlorobenzidine	ND<3.3	5.0	0.66
2,4-Dichlorophenol	ND<1.6	5.0	0.33	Diethyl Phthalate	ND<1.6	5.0	0.33
2,4-Dimethylphenol	ND<1.6	5.0	0.33	Dimethyl Phthalate	ND<1.6	5.0	0.33
4,6-Dinitro-2-methylphenol	ND<8.0	5.0	1.6	2,4-Dinitrophenol	ND<8.0	5.0	1.6
2,4-Dinitrotoluene	ND<1.6	5.0	0.33	2,6-Dinitrotoluene	ND<1.6	5.0	0.33
Di-n-octyl Phthalate	ND<1.6	5.0	0.33	1,2-Diphenylhydrazine	ND<1.6	5.0	0.33
Fluoranthene	ND<1.6	5.0	0.33	Fluorene	ND<1.6	5.0	0.33
Hexachlorobenzene	ND<1.6	5.0	0.33	Hexachlorobutadiene	ND<1.6	5.0	0.33
Hexachlorocyclopentadiene	ND<8.0	5.0	1.6	Hexachloroethane	ND<1.6	5.0	0.33
Indeno (1,2,3-cd) pyrene	ND<1.6	5.0	0.33	Isophorone	ND<1.6	5.0	0.33
2-Methylnaphthalene	ND<1.6	5.0	0.33	2-Methylphenol (o-Cresol)	ND<1.6	5.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.6	5.0	0.33	Naphthalene	ND<1.6	5.0	0.33
2-Nitroaniline	ND<8.0	5.0	1.6	3-Nitroaniline	ND<8.0	5.0	1.6
4-Nitroaniline	ND<8.0	5.0	1.6	2-Nitrophenol	ND<8.0	5.0	1.6
4-Nitrophenol	ND<8.0	5.0	1.6	Nitrobenzene	ND<1.6	5.0	0.33
N-Nitrosodiphenylamine	ND<1.6	5.0	0.33	N-Nitrosodi-n-propylamine	ND<1.6	5.0	0.33
Pentachlorophenol	ND<8.0	5.0	1.6	Phenanthrene	ND<1.6	5.0	0.33
Phenol	ND<1.6	5.0	0.33	Pyrene	ND<1.6	5.0	0.33
1,2,4-Trichlorobenzene	ND<1.6	5.0	0.33	2,4,5-Trichlorophenol	ND<1.6	5.0	0.33
2,4,6-Trichlorophenol	ND<1.6	5.0	0.33				

Surrogate Recoveries (%)

%SS1:	82.0	%SS2:	83.1
%SS3:	81.3	%SS4:	79.4
%SS5:	59.8	%SS6:	76.9

Comments: j

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0307485

Lab ID	0307485-011A
Client ID	WO-8(3.25-4.0')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	90.4	%SS2:	87.9
%SS3:	98.3	%SS4:	83.1
%SS5:	91.8	%SS6:	77.7

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0307485

Lab ID	0307485-012A
Client ID	WO-8(6.0-6.75')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.6	5.0	0.33	Acenaphthylene	ND<1.6	5.0	0.33
Anthracene	ND<1.6	5.0	0.33	Benzidine	ND<8.0	5.0	1.6
Benzoic Acid	ND<8.0	5.0	1.6	Benz(a)anthracene	ND<1.6	5.0	0.33
Benzo(b)fluoranthene	ND<1.6	5.0	0.33	Benzo(k)fluoranthene	ND<1.6	5.0	0.33
Benzo(g,h,i)perylene	ND<1.6	5.0	0.33	Benzo(a)pyrene	ND<1.6	5.0	0.33
Benzyl Alcohol	ND<3.3	5.0	0.66	Bis (2-chloroethoxy) Methane	ND<1.6	5.0	0.33
Bis (2-chloroethyl) Ether	ND<1.6	5.0	0.33	Bis (2-chloroisopropyl) Ether	ND<1.6	5.0	0.33
Bis (2-ethylhexyl) Phthalate	ND<1.6	5.0	0.33	4-Bromophenyl Phenyl Ether	ND<1.6	5.0	0.33
Butylbenzyl Phthalate	ND<1.6	5.0	0.33	4-Chloroaniline	ND<3.3	5.0	0.66
4-Chloro-3-methylphenol	ND<1.6	5.0	0.33	2-Chloronaphthalene	ND<1.6	5.0	0.33
2-Chlorophenol	ND<1.6	5.0	0.33	4-Chlorophenyl Phenyl Ether	ND<1.6	5.0	0.33
Chrysene	ND<1.6	5.0	0.33	Dibenzo(a,h)anthracene	ND<1.6	5.0	0.33
Dibenzofuran	ND<1.6	5.0	0.33	Di-n-butyl Phthalate	ND<1.6	5.0	0.33
1,2-Dichlorobenzene	ND<1.6	5.0	0.33	1,3-Dichlorobenzene	ND<1.6	5.0	0.33
1,4-Dichlorobenzene	ND<1.6	5.0	0.33	3,3-Dichlorobenzidine	ND<3.3	5.0	0.66
2,4-Dichlorophenol	ND<1.6	5.0	0.33	Diethyl Phthalate	ND<1.6	5.0	0.33
2,4-Dimethylphenol	ND<1.6	5.0	0.33	Dimethyl Phthalate	ND<1.6	5.0	0.33
4,6-Dinitro-2-methylphenol	ND<8.0	5.0	1.6	2,4-Dinitrophenol	ND<8.0	5.0	1.6
2,4-Dinitrotoluene	ND<1.6	5.0	0.33	2,6-Dinitrotoluene	ND<1.6	5.0	0.33
Di-n-octyl Phthalate	ND<1.6	5.0	0.33	1,2-Diphenylhydrazine	ND<1.6	5.0	0.33
Fluoranthene	ND<1.6	5.0	0.33	Fluorene	ND<1.6	5.0	0.33
Hexachlorobenzene	ND<1.6	5.0	0.33	Hexachlorobutadiene	ND<1.6	5.0	0.33
Hexachlorocyclopentadiene	ND<8.0	5.0	1.6	Hexachloroethane	ND<1.6	5.0	0.33
Indeno (1,2,3-cd) pyrene	ND<1.6	5.0	0.33	Isophorone	ND<1.6	5.0	0.33
2-Methylnaphthalene	ND<1.6	5.0	0.33	2-Methylphenol (o-Cresol)	ND<1.6	5.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.6	5.0	0.33	Naphthalene	ND<1.6	5.0	0.33
2-Nitroaniline	ND<8.0	5.0	1.6	3-Nitroaniline	ND<8.0	5.0	1.6
4-Nitroaniline	ND<8.0	5.0	1.6	2-Nitrophenol	ND<8.0	5.0	1.6
4-Nitrophenol	ND<8.0	5.0	1.6	Nitrobenzene	ND<1.6	5.0	0.33
N-Nitrosodiphenylamine	ND<1.6	5.0	0.33	N-Nitrosodi-n-propylamine	ND<1.6	5.0	0.33
Pentachlorophenol	ND<8.0	5.0	1.6	Phenanthrene	ND<1.6	5.0	0.33
Phenol	ND<1.6	5.0	0.33	Pyrene	ND<1.6	5.0	0.33
1,2,4-Trichlorobenzene	ND<1.6	5.0	0.33	2,4,5-Trichlorophenol	ND<1.6	5.0	0.33
2,4,6-Trichlorophenol	ND<1.6	5.0	0.33				

Surrogate Recoveries (%)

%SS1:	81.2	%SS2:	82.1
%SS3:	82.1	%SS4:	81.7
%SS5:	60.1	%SS6:	77.3

Comments: j

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-013A
Client ID	WO-9(4.0-4.75')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	85.8	%SS2:	85.8
%SS3:	92.9	%SS4:	92.1
%SS5:	86.5	%SS6:	78.3

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-014A
Client ID	WO-9(8.0-8.75')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	83.4	%SS2:	83.0
%SS3:	87.5	%SS4:	86.7
%SS5:	82.5	%SS6:	76.0

Comments:

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

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

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208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0307485

Lab ID	0307485-015A
Client ID	WO-10(9.0-9.75')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	85.4	%SS2:	81.6
%SS3:	90.3	%SS4:	89.1
%SS5:	83.9	%SS6:	77.2

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical Inc.
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Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Alpha Analytical Laboratories	Client Project ID: #A307601	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/01/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0307485

Lab ID	0307485-016A
Client ID	WO-10(5.0-5.75')
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<3.3	10	0.33	Acenaphthylene	ND<3.3	10	0.33
Anthracene	ND<3.3	10	0.33	Benzidine	ND<16	10	1.6
Benzoic Acid	ND<16	10	1.6	Benz(a)anthracene	ND<3.3	10	0.33
Benzo(b)fluoranthene	ND<3.3	10	0.33	Benzo(k)fluoranthene	ND<3.3	10	0.33
Benzo(g,h,i)perylene	ND<3.3	10	0.33	Benzo(a)pyrene	ND<3.3	10	0.33
Benzyl Alcohol	ND<6.6	10	0.66	Bis (2-chloroethoxy) Methane	ND<3.3	10	0.33
Bis (2-chloroethyl) Ether	ND<3.3	10	0.33	Bis (2-chloroisopropyl) Ether	ND<3.3	10	0.33
Bis (2-ethylhexyl) Phthalate	ND<3.3	10	0.33	4-Bromophenyl Phenyl Ether	ND<3.3	10	0.33
Butylbenzyl Phthalate	ND<3.3	10	0.33	4-Chloroaniline	ND<6.6	10	0.66
4-Chloro-3-methylphenol	ND<3.3	10	0.33	2-Chloronaphthalene	ND<3.3	10	0.33
2-Chlorophenol	ND<3.3	10	0.33	4-Chlorophenyl Phenyl Ether	ND<3.3	10	0.33
Chrysene	ND<3.3	10	0.33	Dibenzo(a,h)anthracene	ND<3.3	10	0.33
Dibenzofuran	ND<3.3	10	0.33	Di-n-butyl Phthalate	ND<3.3	10	0.33
1,2-Dichlorobenzene	ND<3.3	10	0.33	1,3-Dichlorobenzene	ND<3.3	10	0.33
1,4-Dichlorobenzene	ND<3.3	10	0.33	3,3-Dichlorobenzidine	ND<6.6	10	0.66
2,4-Dichlorophenol	ND<3.3	10	0.33	Diethyl Phthalate	ND<3.3	10	0.33
2,4-Dimethylphenol	ND<3.3	10	0.33	Dimethyl Phthalate	ND<3.3	10	0.33
4,6-Dinitro-2-methylphenol	ND<16	10	1.6	2,4-Dinitrophenol	ND<16	10	1.6
2,4-Dinitrotoluene	ND<3.3	10	0.33	2,6-Dinitrotoluene	ND<3.3	10	0.33
Di-n-octyl Phthalate	ND<3.3	10	0.33	1,2-Diphenylhydrazine	ND<3.3	10	0.33
Fluoranthene	ND<3.3	10	0.33	Fluorene	ND<3.3	10	0.33
Hexachlorobenzene	ND<3.3	10	0.33	Hexachlorobutadiene	ND<3.3	10	0.33
Hexachlorocyclopentadiene	ND<16	10	1.6	Hexachloroethane	ND<3.3	10	0.33
Indeno (1,2,3-cd) pyrene	ND<3.3	10	0.33	Isophorone	ND<3.3	10	0.33
2-Methylnaphthalene	ND<3.3	10	0.33	2-Methylphenol (o-Cresol)	ND<3.3	10	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<3.3	10	0.33	Naphthalene	ND<3.3	10	0.33
2-Nitroaniline	ND<16	10	1.6	3-Nitroaniline	ND<16	10	1.6
4-Nitroaniline	ND<16	10	1.6	2-Nitrophenol	ND<16	10	1.6
4-Nitrophenol	ND<16	10	1.6	Nitrobenzene	ND<3.3	10	0.33
N-Nitrosodiphenylamine	ND<3.3	10	0.33	N-Nitrosodi-n-propylamine	ND<3.3	10	0.33
Pentachlorophenol	ND<16	10	1.6	Phenanthrene	ND<3.3	10	0.33
Phenol	ND<3.3	10	0.33	Pyrene	ND<3.3	10	0.33
1,2,4-Trichlorobenzene	ND<3.3	10	0.33	2,4,5-Trichlorophenol	ND<3.3	10	0.33
2,4,6-Trichlorophenol	ND<3.3	10	0.33				

Surrogate Recoveries (%)

%SS1:	71.3	%SS2:	84.3
%SS3:	83.6	%SS4:	83.6
%SS5:	70.7	%SS6:	72.6

Comments: j

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8270D

Matrix: S WorkOrder: 0307485

EPA Method: SW8270D Extraction: SW3550C BatchID: 8000 Spiked Sample ID: 0307495-002A

	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Acenaphthene	ND	2	71.6	68.8	3.86	95.9	97.4	1.55	30	130
4-Chloro-3-methylphenol	ND	4	84.5	84.2	0.302	97.8	97	0.816	30	130
2-Chlorophenol	ND	4	86.6	85.4	1.44	96.8	96.1	0.679	30	130
1,4-Dichlorobenzene	ND	2	79.2	77.2	2.56	99.6	100	0.531	30	130
2,4-Dinitrotoluene	ND	2	83	79.2	4.60	92.6	93.6	1.01	30	130
4-Nitrophenol	ND	4	85.3	87.7	2.78	92.8	93.4	0.677	30	130
N-Nitrosodi-n-propylamine	ND	2	117	117	0	103	106	2.78	30	130
Pentachlorophenol	ND	4	57.1	55.6	2.66	90.5	90.4	0.0719	30	130
Phenol	ND	4	86.4	84.6	2.15	97.1	97.5	0.401	30	130
Pyrene	ND	2	73.4	69.8	5.07	90.4	90.6	0.133	30	130
1,2,4-Trichlorobenzene	ND	2	72.4	70	3.44	94.5	95.5	1.07	30	130
%SS1:	94.5	100	91.7	89.1	2.95	98.7	101	2.52	30	130
%SS2:	96.9	100	99.4	91.7	8.14	110	110	0	30	130
%SS3:	101	100	99.7	95	4.83	96.9	97.6	0.811	30	130
%SS4:	88.5	100	83.6	80.2	4.15	97.7	98.5	0.752	30	130
%SS5:	101	100	106	98	8.06	103	98.1	4.97	30	130
%SS6:	84.8	100	81.9	77.5	5.60	89.7	89.8	0.148	30	130

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

NONE

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

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

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.
& = low or no surrogate due to matrix interference.

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

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QC SUMMARY REPORT FOR SW8270D

Matrix: S WorkOrder: 0307485

EPA Method: SW8270D Extraction: SW3550C BatchID: 7980 Spiked Sample ID: 0307463-001A

	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Acenaphthene	ND	2	95.2	94.5	0.696	83.5	83.3	0.192	30	130
4-Chloro-3-methylphenol	ND	4	92.4	92.8	0.383	104	103	1.40	30	130
2-Chlorophenol	ND	4	86.1	85.9	0.192	97.1	96.6	0.547	30	130
1,4-Dichlorobenzene	ND	2	86.3	86	0.348	92.6	90.8	1.91	30	130
2,4-Dinitrotoluene	ND	2	89.2	85.5	4.19	98	97.9	0.153	30	130
4-Nitrophenol	ND	4	100	102	1.80	84.8	85.2	0.488	30	130
N-Nitrosodi-n-propylamine	ND	2	118	117	1.16	116	117	1.30	30	130
Pentachlorophenol	ND	4	81.6	81.9	0.385	74.2	74	0.148	30	130
Phenol	ND	4	90.1	88.9	1.33	96.6	94.8	1.89	30	130
Pyrene	ND	2	73.5	73.3	0.368	80.7	80.7	0	30	130
1,2,4-Trichlorobenzene	ND	2	81.8	83.9	2.54	89.6	89.5	0.156	30	130
%SS1:	93.5	100	93.7	93.7	0	86.7	87.6	0.981	30	130
%SS2:	83.4	100	92.4	90.6	1.98	97.3	96.3	1.07	30	130
%SS3:	94.6	100	98.1	98	0.129	95.9	95.5	0.455	30	130
%SS4:	81.3	100	83.2	83	0.254	84.3	83.8	0.603	30	130
%SS5:	81.4	100	93.9	91.3	2.80	87.4	91.4	4.45	30	130
%SS6:	87.7	100	89.6	88.6	1.10	81.3	81.6	0.402	30	130

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

NONE

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

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

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.
& = low or no surrogate due to matrix interference.

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

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43252

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19203 36th Avenue W.
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Tel: (425) 921-4000
Fax: (425) 921-4040

☐

PROJECT NO: 030229.14 PROJECT NAME: Sierra Pacific Industries PAGE: 1 OF: 4

SAMPLER (Signature): [signature] PROJECT MANAGER: Ed Conti DATE: 7/25/03

METHOD OF SHIPMENT: Lab Courier CARRIER/WAYBILL NO: — DESTINATION: Alpha Analytical

Field Sample Identification	SAMPLES: Sample DATE	TIME	Matrix*	Preservation: HCl	HNO_3	H_2SO_4	COLD		FILTRATION*	Containers: VOLUME (ml/oz)	TYPE*	NO.	ANALYSIS REQUEST Constituents/Method: VOCs 8260 TPHgas 8015	SVOCs 8270 TEPH d+m.o.	Cen.Pulp Meth.	PCBs 8080	Wear Metals 6010 + Copper	Handling: HOLD	RUSH	STANDARD	Remarks
WO-3 (4.0')	7/24/03	9:00	SO				X			5gm	En-Core	3	X							X	A307601-1
WO-3 (3.25-4.0')	↓	9:00	SO				X			9"	OT	1		X	X	X	X			X	-2
WO-3 (6.0-6.5')		9:20	SO				X			6"	OT	1		X	X	X	X			X	-3
WO-4 (5.5')		9:50	SO				X			5g	En-Core	3	X							X	-4
WO-4 (5.5-6.25')		9:50	SO				X			9"	OT	1		X	X	X	X			X	-5
WO-4 (8.5')		10:10	SO				X			5g	En-Core	3	X							X	-6
WO-4 (8.5-9.25')		10:10	SO				X			9"	OT	1		X	X	X	X			X	-7
WO-5 (3.25')		10:40	SO				X			5g	En-Core	3	X							X	-8
WO-5 (3.25-4.0')		10:40	SO				X			9"	OT	1		X	X	X	X			X	-9
WO-5 (8.0')	↓	11:00	SO				X			5g	En-Core	3	X							X	10

TOTAL NUMBER OF CONTAINERS: (61)

LABORATORY COMMENTS/CONDITION OF SAMPLES:

Cooler Temp:

RECEIVED
AUG 15 2003
MFG, Inc.

RELINQUISHED BY: SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	RECIEVED BY: SIGNATURE	PRINTED NAME	COMPANY
[signature]	Christopher Spill	MFG-SF	7/25/03	7/25/03 11:35	[signature]	J. Matthews	Alpha
[signature]	Jack Matthews		7/25/03	15:40	[signature]	S Speaks	Alpha LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered

DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43253

☐ Arcata Office
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Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030229.14 PROJECT NAME: Sierra Pacific Industries PAGE: 2 OF: 4

SAMPLER (Signature): PROJECT MANAGER: Ed Conti DATE: 7/25/03

METHOD OF SHIPMENT: Lab Courier CARRIER/WAYBILL NO: — DESTINATION: Alpha Analytical

SAMPLES

Field Sample Identification	Sample DATE	Sample TIME	Matrix*	Preservation HCl	Preservation HNO_3	Preservation H_2SO_4	Preservation COLD	FILTRATION*	Containers VOLUME (ml/oz)	Containers TYPE*	Containers NO.
WO-5 (8.0-8.75')	7/24/03	11:00	SO				X		9"	OT	1
WO-6 (4.5')		11:30	SO				X		5g	En-Core	3
WO-6 (4.5-5.25')		11:30	SO				X		9"	OT	1
WO-6 (9.0')		11:50	SO				X		5g	En-Core	3
WO-6 (9.0-9.75')		11:50	SO				X		9"	OT	1
WO-7 (4.0')		12:15	SO				X		5g	En-Core	3
WO-7 (4.0-4.75')		12:15	SO				X		9"	OT	1
WO-7 (8.0')		12:40	SO				X		5g	En-Core	3
WO-7 (8.0-8.75')		12:40	SO				X		9"	OT	1
WO-8 (3.25')	↓	13:10	SO				X		5g	En-Core	3

TOTAL NUMBER OF CONTAINERS (61)

ANALYSIS REQUEST

Field Sample Identification	Constituents/Method: VOCs 8260 TPHgas 8015	SVOCs 8270 TEPH diesel	Cam. 17 Meth	PCBs 8080	Wet Metals + Copper Cold	Handling: HOLD	RUSH	STANDARD	Remarks
WO-5 (8.0-8.75')		X	X	X	X			X	A3076001-11
WO-6 (4.5')	X							X	12
WO-6 (4.5-5.25')		X	X	X	X			X	13
WO-6 (9.0')	X							X	14
WO-6 (9.0-9.75')		X	X	X	X			X	15
WO-7 (4.0')	X							X	16
WO-7 (4.0-4.75')		X	X	X	X			X	17
WO-7 (8.0')	X							X	18
WO-7 (8.0-8.75')		X	X	X	X			X	19
WO-8 (3.25')	X							X	20

RECEIVED AUG 15 2003 MFG, Inc.

LABORATORY COMMENTS/CONDITION OF SAMPLES Cooler Temp:

RELINQUISHED BY: SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	RECIEVED BY: SIGNATURE	PRINTED NAME	COMPANY
	Christopher Spill	MFG-SF	7/25/03	7/25/03 11:35	J. Matthews	J. Matthews	Alpha
Jack Matthews	Jack Matthews		7/25/03	15:40	S. Speaks	S. Speaks	Alpha LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered

DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

MFG, INC.
CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43254

☐ Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

☐ Boulder Office
4900 Pearl East Circle
Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

☐ Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
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☐ Osburn Office
P.O. Box 30
Wallace, ID
83873-0030
Tel: (208) 556-6811
Fax: (208) 556-7271

☒ **San Francisco Office**
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone (415) 495-7110 – Fax (415) 495-7107

☐ Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

☐ ______

PROJECT NO: 030229.14 PROJECT NAME: Sierra Pacific Industries PAGE: 3 OF: 4
SAMPLER (Signature): [signature] PROJECT MANAGER: Ed Conti DATE: 7/25/03
METHOD OF SHIPMENT: Lab Courier CARRIER/WAYBILL NO: — DESTINATION: Alpha Analytical

SAMPLES													ANALYSIS REQUEST								
	Sample			Preservation						Containers			Constituents/Method					Handling			Remarks
Field Sample Identification	DATE	TIME	Matrix*	HCl	HNO_3	H_2SO_4	COLD		FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	VOCs 8260 TPH gas 8015	SVOCs 8270 TEPH d+m.o.	Can Pulp Meth	PCBs 8080	Wet Metals + Copper 6010	HOLD	RUSH	STANDARD	
WO-8 (3.25-4.0')	7/24/03	13:10	SO				X			9"	OT	1		X	X	X	X			X	A307601-21
WO-8 (6.0')	↓	13:30	SO				X			5g	En-Core	3	X							X	22
WO-8 (6.0-6.75')	↓	13:30	SO				X			9"	OT	1		X	X	X	X			X	23
WO-9 (4.0')	↓	14:00	SO				X			5g	En-Core	3	X							X	24
WO-9 (4.0-4.75')	↓	14:00	SO				X			9"	OT	1		X	X	X	X			X	25
WO-9 (8.0')	↓	14:20	SO				X			5g	En-Core	3	X							X	26
WO-9 (8.0-8.75')	↓	14:20	SO				X			9"	OT	1		X	X	X	X			X	27
WO-10 (5.0')	↓	14:45	SO				X			5g	En-Core	3	X							X	28
WO-10 (9.0')	↓	15:00	SO				X			5g	En-Core	3	X							X	29
WO-10 (9.0-9.75')	↓	15:00	SO				X			9"	OT	1		X	X	X	X			X	30

TOTAL NUMBER OF CONTAINERS: (61)

LABORATORY COMMENTS/CONDITION OF SAMPLES

Cooler Temp:

RECEIVED
AUG 15 2003
MFG, Inc.

RELINQUISHED BY:					RECIEVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
[signature]	Christopher Spill	MFG-SF	7/25/03	7/25/03 11:35	J. Matthews [signature]	J. Matthews	Alpha
Jack Matthews [signature]	Jack Matthews		7/25/03	15:40	S. Speaks [signature]	S. Speaks	Alpha LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered

DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43255

☐ Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
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☐ Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

☐ _____

PROJECT NO: 030229.14 PROJECT NAME: Sierra Pacific Industries PAGE: 4 OF: 4

SAMPLER (Signature): _____ PROJECT MANAGER: Ed Conti DATE: 7/25/03

METHOD OF SHIPMENT: Lab Courier CARRIER/WAYBILL NO: — DESTINATION: Alpha Analytical

SAMPLES

Field Sample Identification	Sample DATE	Sample TIME	Sample Matrix*	Preservation HCl	Preservation HNO_3	Preservation H_2SO_4	Preservation COLD	Preservation	FILTRATION*	Containers VOLUME (ml/oz)	Containers TYPE*	Containers NO.
WO-10 (5.0-5.75')	7/24/03	14:45	SO				X			9"	OT	1

TOTAL NUMBER OF CONTAINERS (6)

ANALYSIS REQUEST

Constituents/Method: VOCs 8260 TPHgas 8015	SVOCs 8270 TEPH d+m.o	Cam. Pulp Meth.	PCBs 8080	Wet Metals +Copper Cold	Handling HOLD	RUSH	STANDARD	Remarks
	X	X	X	X			X	A3071601-31

RECEIVED AUG 15 2003 MFG, Inc.

LABORATORY COMMENTS/CONDITION OF SAMPLES Cooler Temp:

RELINQUISHED BY: SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	RECIEVED BY: SIGNATURE	PRINTED NAME	COMPANY
	Christopher Spill	MFG-SF	7/25/03	11:35	J. Matthews	J. Matthews	Alpha
Jack Matthews	Jack Matthews		7/25/03	15:40	S Speaks	S. Speaks	Alpha LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered

DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

APPENDIX D

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

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

12 August 2003

MFG, Inc
Attn: Ed Conti
180 Howard St. Suite 200
San Francisco, CA 94105-2941
RE: SPI-Arcata/Task #4
Work Order: A307608

Enclosed are the results of analyses for samples received by the laboratory on 07/25/03 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks
Project Manager

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

RECEIVED
AUG 1 5 2003
MFG, Inc.

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WO-3-GW	A307608-01	Water	07/24/03 18:30	07/25/03 15:40
WO-4-GW	A307608-02	Water	07/24/03 17:00	07/25/03 15:40
WO-5-GW	A307608-03	Water	07/24/03 16:15	07/25/03 15:40
WO-6-GW	A307608-04	Water	07/24/03 16:00	07/25/03 15:40
WO-7-GW	A307608-05	Water	07/24/03 17:30	07/25/03 15:40
WO-8-GW	A307608-06	Water	07/24/03 17:15	07/25/03 15:40
WO-9-GW	A307608-07	Water	07/24/03 18:15	07/25/03 15:40
WO-10-GW	A307608-08	Water	07/24/03 18:45	07/25/03 15:40

Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-3-GW (A307608-01)			**Sample Type: Water**			**Sampled: 07/24/03 18:30**		
Volatile Organic Compounds by EPA Method 8260B								**R-04**
Acetone	8260B	AH30516	07/31/03	08/01/03	20	ND ug/l	100	
Benzene	"	"	"	"	"	ND "	6.0	
Bromobenzene	"	"	"	"	"	ND "	10	
Bromochloromethane	"	"	"	"	"	ND "	10	
Bromodichloromethane	"	"	"	"	"	ND "	10	
Bromoform	"	"	"	"	"	ND "	10	
Bromomethane	"	"	"	"	"	ND "	10	
n-Butylbenzene	"	"	"	"	"	ND "	10	
sec-Butylbenzene	"	"	"	"	"	ND "	10	
tert-Butylbenzene	"	"	"	"	"	ND "	10	
Carbon tetrachloride	"	"	"	"	"	ND "	10	
Chlorobenzene	"	"	"	"	"	ND "	10	
Chloroethane	"	"	"	"	"	ND "	10	
Chloroform	"	"	"	"	"	ND "	10	
Chloromethane	"	"	"	"	"	ND "	10	
2-Chlorotoluene	"	"	"	"	"	ND "	10	
4-Chlorotoluene	"	"	"	"	"	ND "	10	
Dibromochloromethane	"	"	"	"	"	ND "	10	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	10	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	10	
Dibromomethane	"	"	"	"	"	ND "	10	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	10	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	10	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	10	
Dichlorodifluoromethane	"	"	"	"	"	ND "	10	
1,1-Dichloroethane	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	10	
1,1-Dichloroethene	"	"	"	"	"	ND "	6.0	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	10	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	10	
1,2-Dichloropropane	"	"	"	"	"	ND "	10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-3-GW (A307608-01)			**Sample Type: Water**			**Sampled: 07/24/03 18:30**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
1,3-Dichloropropane	8260B	"	"	08/01/03	"	ND "	10	
2,2-Dichloropropane	"	"	"	"	"	ND "	10	
1,1-Dichloropropene	"	"	"	"	"	ND "	10	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	10	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	10	
Ethylbenzene	"	"	"	"	"	ND "	10	
Hexachlorobutadiene	"	"	"	"	"	ND "	10	
Isopropylbenzene	"	"	"	"	"	ND "	10	
p-Isopropyltoluene	"	"	"	"	"	ND "	10	
Methyl ethyl ketone	"	"	"	"	"	ND "	20	
Methyl isobutyl ketone	"	"	"	"	"	ND "	20	
Methyl tert-butyl ether	"	"	"	"	"	ND "	10	
Methylene chloride	"	"	"	"	"	ND "	10	
Naphthalene	"	"	"	"	"	ND "	10	
n-Propylbenzene	"	"	"	"	"	ND "	10	
Styrene	"	"	"	"	"	ND "	10	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	10	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	10	
Tetrachloroethene	"	"	"	"	"	ND "	10	
Toluene	"	"	"	"	"	ND "	6.0	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	10	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	10	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	10	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	10	
Trichloroethene	"	"	"	"	"	ND "	10	
Trichlorofluoromethane	"	"	"	"	"	ND "	10	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	10	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	10	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	10	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	10	
Vinyl chloride	"	"	"	"	"	ND "	10	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
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AUG 15 2003

MFG, Inc.

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-3-GW (A307608-01)			**Sample Type: Water**			**Sampled: 07/24/03 18:30**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									**R-04**
m,p-Xylene	8260B	"	"	08/01/03	"	ND "		10	
o-Xylene	"	"	"	"	"	ND "		10	
Xylenes (total)	"	"	"	"	"	ND "		10	
Surrogate: Dibromofluoromethane	"	"	"	"		*94.4 %*	*69-119*		
Surrogate: Toluene-d8	"	"	"	"		*82.8 %*	*74-118*		
Surrogate: Bromofluorobenzene	"	"	"	"		*85.6 %*	*58-112*		
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31111	07/30/03	08/11/03	5	ND ug/l		1.0	R-01
PCB-1221	"	"	"	"	"	ND "		1.0	R-01
PCB-1232	"	"	"	"	"	ND "		1.0	R-01
PCB-1242	"	"	"	"	"	ND "		1.0	R-01
PCB-1248	"	"	"	"	"	ND "		1.0	R-01
PCB-1254	"	"	"	"	1	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Decachlorobiphenyl	"	"	"	"		*92.0 %*	*50-170*		
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*500 %*	*40-140*		*S-04*
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AH30107	07/30/03	07/30/03	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	"	"	"	"		*101 %*	*79-119*		

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Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-3-GW (A307608-01)			**Sample Type: Water**			**Sampled: 07/24/03 18:30**			
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.0204	**1100 ug/l**		**51**	
TPH as Motor Oil	"	"	"	"	"	**9100 "**		**100**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*46.3 %*	*14-116*		
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	8015GRO	AH30519	08/01/03	08/01/03	1	ND ug/l		50	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*73.6 %*	*63-150*		
WO-4-GW (A307608-02)			**Sample Type: Water**			**Sampled: 07/24/03 17:00**			
Volatile Organic Compounds by EPA Method 8260B									**R-04**
Acetone	8260B	AH30516	07/31/03	08/01/03	10	ND ug/l		50	
Benzene	"	"	"	"	"	ND "		3.0	
Bromobenzene	"	"	"	"	"	ND "		5.0	
Bromochloromethane	"	"	"	"	"	ND "		5.0	
Bromodichloromethane	"	"	"	"	"	ND "		5.0	
Bromoform	"	"	"	"	"	ND "		5.0	
Bromomethane	"	"	"	"	"	ND "		5.0	
n-Butylbenzene	"	"	"	"	"	ND "		5.0	
sec-Butylbenzene	"	"	"	"	"	ND "		5.0	
tert-Butylbenzene	"	"	"	"	"	ND "		5.0	
Carbon tetrachloride	"	"	"	"	"	ND "		5.0	
Chlorobenzene	"	"	"	"	"	ND "		5.0	
Chloroethane	"	"	"	"	"	ND "		5.0	
Chloroform	"	"	"	"	"	ND "		5.0	
Chloromethane	"	"	"	"	"	ND "		5.0	
2-Chlorotoluene	"	"	"	"	"	ND "		5.0	
4-Chlorotoluene	"	"	"	"	"	ND "		5.0	
Dibromochloromethane	"	"	"	"	"	ND "		5.0	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "		5.0	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		5.0	
Dibromomethane	"	"	"	"	"	ND "		5.0	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-4-GW (A307608-02)			**Sample Type: Water**			**Sampled: 07/24/03 17:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
1,2-Dichlorobenzene	8260B	"	"	08/01/03	"	ND "	5.0	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
Dichlorodifluoromethane	"	"	"	"	"	ND "	5.0	
1,1-Dichloroethane	"	"	"	"	"	ND "	5.0	
1,2-Dichloroethane	"	"	"	"	"	ND "	5.0	
1,1-Dichloroethene	"	"	"	"	"	ND "	3.0	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	5.0	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	5.0	
1,2-Dichloropropane	"	"	"	"	"	ND "	5.0	
1,3-Dichloropropane	"	"	"	"	"	ND "	5.0	
2,2-Dichloropropane	"	"	"	"	"	ND "	5.0	
1,1-Dichloropropene	"	"	"	"	"	ND "	5.0	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	5.0	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	5.0	
Ethylbenzene	"	"	"	"	"	ND "	5.0	
Hexachlorobutadiene	"	"	"	"	"	ND "	5.0	
Isopropylbenzene	"	"	"	"	"	ND "	5.0	
p-Isopropyltoluene	"	"	"	"	"	ND "	5.0	
Methyl ethyl ketone	"	"	"	"	"	ND "	10	
Methyl isobutyl ketone	"	"	"	"	"	ND "	10	
Methyl tert-butyl ether	"	"	"	"	"	ND "	5.0	
Methylene chloride	"	"	"	"	"	ND "	5.0	
Naphthalene	"	"	"	"	"	ND "	5.0	
n-Propylbenzene	"	"	"	"	"	ND "	5.0	
Styrene	"	"	"	"	"	ND "	5.0	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	5.0	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	5.0	
Tetrachloroethene	"	"	"	"	"	ND "	5.0	
Toluene	"	"	"	"	"	ND "	3.0	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	5.0	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-4-GW (A307608-02)			**Sample Type: Water**			**Sampled: 07/24/03 17:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
1,2,4-Trichlorobenzene	8260B	"	"	08/01/03	"	ND "	5.0	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	5.0	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	5.0	
Trichloroethene	"	"	"	"	"	ND "	5.0	
Trichlorofluoromethane	"	"	"	"	"	ND "	5.0	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	5.0	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	5.0	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	5.0	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	5.0	
Vinyl chloride	"	"	"	"	"	ND "	5.0	
m,p-Xylene	"	"	"	"	"	ND "	5.0	
o-Xylene	"	"	"	"	"	ND "	5.0	
Xylenes (total)	"	"	"	"	"	ND "	5.0	
Surrogate: Dibromofluoromethane	"	"	"	"		*96.8 %*	*69-119*	
Surrogate: Toluene-d8	"	"	"	"		*82.0 %*	*74-118*	
Surrogate: Bromofluorobenzene	"	"	"	"		*86.0 %*	*58-112*	
Polychlorinated Biphenyls by EPA Method 8080A								
PCB-1016	8080	AH31111	07/30/03	08/11/03	1	ND ug/l	0.20	
PCB-1221	"	"	"	"	"	ND "	0.20	
PCB-1232	"	"	"	"	"	ND "	0.20	
PCB-1242	"	"	"	"	"	ND "	0.20	
PCB-1248	"	"	"	"	"	ND "	0.20	
PCB-1254	"	"	"	"	"	ND "	0.20	
PCB-1260	"	"	"	"	"	ND "	0.20	
PCB-1262	"	"	"	"	"	ND "	0.20	
Surrogate: Decachlorobiphenyl	"	"	"	"		*56.0 %*	*50-170*	
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*52.0 %*	*40-140*	

Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-4-GW (A307608-02)			**Sample Type: Water**			**Sampled: 07/24/03 17:00**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AH30107	07/30/03	07/30/03	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	"	"	"	"		*112 %*	*79-119*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.0638	**63 ug/l**		**53**	
TPH as Motor Oil	"	"	"	"	"	ND "		110	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*33.2 %*	*14-116*		
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	8015GRO	AH30519	08/01/03	08/01/03	1	ND ug/l		50	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*69.7 %*	*63-150*		
WO-5-GW (A307608-03)			**Sample Type: Water**			**Sampled: 07/24/03 16:15**			
Volatile Organic Compounds by EPA Method 8260B									**R-04**
Acetone	8260B	AH30516	07/31/03	08/01/03	100	ND ug/l		500	
Benzene	"	"	"	"	"	ND "		30	
Bromobenzene	"	"	"	"	"	ND "		50	
Bromochloromethane	"	"	"	"	"	ND "		50	
Bromodichloromethane	"	"	"	"	"	ND "		50	
Bromoform	"	"	"	"	"	ND "		50	
Bromomethane	"	"	"	"	"	ND "		50	
n-Butylbenzene	"	"	"	"	"	ND "		50	
sec-Butylbenzene	"	"	"	"	"	ND "		50	
tert-Butylbenzene	"	"	"	"	"	ND "		50	
Carbon tetrachloride	"	"	"	"	"	ND "		50	
Chlorobenzene	"	"	"	"	"	ND "		50	
Chloroethane	"	"	"	"	"	ND "		50	

Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-5-GW (A307608-03)			**Sample Type: Water**			**Sampled: 07/24/03 16:15**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
Chloroform	8260B	"	"	08/01/03	"	ND "	50	
Chloromethane	"	"	"	"	"	ND "	50	
2-Chlorotoluene	"	"	"	"	"	ND "	50	
4-Chlorotoluene	"	"	"	"	"	ND "	50	
Dibromochloromethane	"	"	"	"	"	ND "	50	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	50	
Dibromomethane	"	"	"	"	"	ND "	50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	50	
Dichlorodifluoromethane	"	"	"	"	"	ND "	50	
1,1-Dichloroethane	"	"	"	"	"	ND "	50	
1,2-Dichloroethane	"	"	"	"	"	ND "	50	
1,1-Dichloroethene	"	"	"	"	"	ND "	30	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	50	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	50	
1,2-Dichloropropane	"	"	"	"	"	ND "	50	
1,3-Dichloropropane	"	"	"	"	"	ND "	50	
2,2-Dichloropropane	"	"	"	"	"	ND "	50	
1,1-Dichloropropene	"	"	"	"	"	ND "	50	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	50	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	50	
Ethylbenzene	"	"	"	"	"	ND "	50	
Hexachlorobutadiene	"	"	"	"	"	ND "	50	
Isopropylbenzene	"	"	"	"	"	ND "	50	
p-Isopropyltoluene	"	"	"	"	"	ND "	50	
Methyl ethyl ketone	"	"	"	"	"	ND "	100	
Methyl isobutyl ketone	"	"	"	"	"	ND "	100	
Methyl tert-butyl ether	"	"	"	"	"	ND "	50	
Methylene chloride	"	"	"	"	"	ND "	50	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-5-GW (A307608-03)			**Sample Type: Water**			**Sampled: 07/24/03 16:15**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
Naphthalene	8260B	"	"	08/01/03	"	ND "	50	
n-Propylbenzene	"	"	"	"	"	ND "	50	
Styrene	"	"	"	"	"	ND "	50	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	50	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	50	
Tetrachloroethene	"	"	"	"	"	ND "	50	
Toluene	"	"	"	"	"	ND "	30	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	50	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	50	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	50	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	50	
Trichloroethene	"	"	"	"	"	ND "	50	
Trichlorofluoromethane	"	"	"	"	"	ND "	50	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	50	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	50	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	50	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	50	
Vinyl chloride	"	"	"	"	"	ND "	50	
m,p-Xylene	"	"	"	"	"	ND "	50	
o-Xylene	"	"	"	"	"	ND "	50	
Xylenes (total)	"	"	"	"	"	ND "	50	
Surrogate: Dibromofluoromethane	"	"	"	"		*96.4 %*	*69-119*	
Surrogate: Toluene-d8	"	"	"	"		*82.4 %*	*74-118*	
Surrogate: Bromofluorobenzene	"	"	"	"		*87.2 %*	*58-112*	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-5-GW (A307608-03)			**Sample Type: Water**			**Sampled: 07/24/03 16:15**			
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31111	07/30/03	08/11/03	1	ND ug/l		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Decachlorobiphenyl	"	"	"	"		*78.0 %*	*50-170*		
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*78.0 %*	*40-140*		
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AH30107	07/30/03	07/30/03	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	"	"	"	"		*114 %*	*79-119*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.0417	**97 ug/l**		**52**	
TPH as Motor Oil	"	"	"	"	"	**230 "**		**100**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*48.5 %*	*14-116*		

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Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
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Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-5-GW (A307608-03)			**Sample Type: Water**			**Sampled: 07/24/03 16:15**			
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	8015GRO	AH30519	08/01/03	08/01/03	1	ND ug/l		50	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*76.6 %*	*63-150*		
WO-6-GW (A307608-04)			**Sample Type: Water**			**Sampled: 07/24/03 16:00**			
Volatile Organic Compounds by EPA Method 8260B									**R-04**
Acetone	8260B	AH30516	07/31/03	08/01/03	100	ND ug/l		500	
Benzene	"	"	"	"	"	ND "		30	
Bromobenzene	"	"	"	"	"	ND "		50	
Bromochloromethane	"	"	"	"	"	ND "		50	
Bromodichloromethane	"	"	"	"	"	ND "		50	
Bromoform	"	"	"	"	"	ND "		50	
Bromomethane	"	"	"	"	"	ND "		50	
n-Butylbenzene	"	"	"	"	"	ND "		50	
sec-Butylbenzene	"	"	"	"	"	ND "		50	
tert-Butylbenzene	"	"	"	"	"	ND "		50	
Carbon tetrachloride	"	"	"	"	"	ND "		50	
Chlorobenzene	"	"	"	"	"	ND "		50	
Chloroethane	"	"	"	"	"	ND "		50	
Chloroform	"	"	"	"	"	ND "		50	
Chloromethane	"	"	"	"	"	ND "		50	
2-Chlorotoluene	"	"	"	"	"	ND "		50	
4-Chlorotoluene	"	"	"	"	"	ND "		50	
Dibromochloromethane	"	"	"	"	"	ND "		50	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "		50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		50	
Dibromomethane	"	"	"	"	"	ND "		50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		50	
Dichlorodifluoromethane	"	"	"	"	"	ND "		50	
1,1-Dichloroethane	"	"	"	"	"	ND "		50	

Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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MFG, Inc.

CHEMICAL EXAMINATION REPORT

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-6-GW (A307608-04)			**Sample Type: Water**			**Sampled: 07/24/03 16:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
1,2-Dichloroethane	8260B	"	"	08/01/03	"	ND "	50	
1,1-Dichloroethene	"	"	"	"	"	ND "	30	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	50	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	50	
1,2-Dichloropropane	"	"	"	"	"	ND "	50	
1,3-Dichloropropane	"	"	"	"	"	ND "	50	
2,2-Dichloropropane	"	"	"	"	"	ND "	50	
1,1-Dichloropropene	"	"	"	"	"	ND "	50	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	50	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	50	
Ethylbenzene	"	"	"	"	"	ND "	50	
Hexachlorobutadiene	"	"	"	"	"	ND "	50	
Isopropylbenzene	"	"	"	"	"	ND "	50	
p-Isopropyltoluene	"	"	"	"	"	ND "	50	
Methyl ethyl ketone	"	"	"	"	"	ND "	100	
Methyl isobutyl ketone	"	"	"	"	"	ND "	100	
Methyl tert-butyl ether	"	"	"	"	"	ND "	50	
Methylene chloride	"	"	"	"	"	ND "	50	
Naphthalene	"	"	"	"	"	ND "	50	
n-Propylbenzene	"	"	"	"	"	ND "	50	
Styrene	"	"	"	"	"	ND "	50	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	50	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	50	
Tetrachloroethene	"	"	"	"	"	ND "	50	
Toluene	"	"	"	"	"	ND "	30	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	50	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	50	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	50	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	50	
Trichloroethene	"	"	"	"	"	ND "	50	
Trichlorofluoromethane	"	"	"	"	"	ND "	50	

Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-6-GW (A307608-04)			**Sample Type: Water**			**Sampled: 07/24/03 16:00**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									**R-04**
Trichlorotrifluoroethane	8260B	"	"	08/01/03	"	ND "		50	
1,2,3-Trichloropropane	"	"	"	"	"	ND "		50	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "		50	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "		50	
Vinyl chloride	"	"	"	"	"	ND "		50	
m,p-Xylene	"	"	"	"	"	ND "		50	
o-Xylene	"	"	"	"	"	ND "		50	
Xylenes (total)	"	"	"	"	"	ND "		50	
Surrogate: Dibromofluoromethane	"	"	"	"		*95.2 %*	*69-119*		
Surrogate: Toluene-d8	"	"	"	"		*82.8 %*	*74-118*		
Surrogate: Bromofluorobenzene	"	"	"	"		*87.2 %*	*58-112*		
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31111	07/30/03	08/11/03	4	ND ug/l		0.80	R-01
PCB-1221	"	"	"	"	"	ND "		0.80	R-01
PCB-1232	"	"	"	"	"	ND "		0.80	R-01
PCB-1242	"	"	"	"	"	ND "		0.80	R-01
PCB-1248	"	"	"	"	"	ND "		0.80	R-01
PCB-1254	"	"	"	"	1	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Decachlorobiphenyl	"	"	"	"		*64.0 %*	*50-170*		
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*100 %*	*40-140*		

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-6-GW (A307608-04)			**Sample Type: Water**			**Sampled: 07/24/03 16:00**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AH30107	07/30/03	07/30/03	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	"	"	"	"		*89.6 %*	*79-119*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.0152	**98 ug/l**		**51**	
TPH as Motor Oil	"	"	"	"	"	**120 "**		**100**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*51.0 %*	*14-116*		
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	8015GRO	AH30519	08/01/03	08/01/03	1	ND ug/l		50	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*75.3 %*	*63-150*		
WO-7-GW (A307608-05)			**Sample Type: Water**			**Sampled: 07/24/03 17:30**			
Volatile Organic Compounds by EPA Method 8260B									**R-04**
Acetone	8260B	AH30516	07/31/03	08/01/03	20	**120 ug/l**		**100**	
Benzene	"	"	"	"	"	ND "		6.0	
Bromobenzene	"	"	"	"	"	ND "		10	
Bromochloromethane	"	"	"	"	"	ND "		10	
Bromodichloromethane	"	"	"	"	"	ND "		10	
Bromoform	"	"	"	"	"	ND "		10	
Bromomethane	"	"	"	"	"	ND "		10	
n-Butylbenzene	"	"	"	"	"	ND "		10	
sec-Butylbenzene	"	"	"	"	"	ND "		10	
tert-Butylbenzene	"	"	"	"	"	ND "		10	
Carbon tetrachloride	"	"	"	"	"	ND "		10	
Chlorobenzene	"	"	"	"	"	ND "		10	
Chloroethane	"	"	"	"	"	ND "		10	

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A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-7-GW (A307608-05)			**Sample Type: Water**			**Sampled: 07/24/03 17:30**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
Chloroform	8260B	"	"	08/01/03	"	ND "	10	
Chloromethane	"	"	"	"	"	ND "	10	
2-Chlorotoluene	"	"	"	"	"	ND "	10	
4-Chlorotoluene	"	"	"	"	"	ND "	10	
Dibromochloromethane	"	"	"	"	"	ND "	10	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	10	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	10	
Dibromomethane	"	"	"	"	"	ND "	10	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	10	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	10	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	10	
Dichlorodifluoromethane	"	"	"	"	"	ND "	10	
1,1-Dichloroethane	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	10	
1,1-Dichloroethene	"	"	"	"	"	ND "	6.0	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	10	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	10	
1,2-Dichloropropane	"	"	"	"	"	ND "	10	
1,3-Dichloropropane	"	"	"	"	"	ND "	10	
2,2-Dichloropropane	"	"	"	"	"	ND "	10	
1,1-Dichloropropene	"	"	"	"	"	ND "	10	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	10	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	10	
Ethylbenzene	"	"	"	"	"	ND "	10	
Hexachlorobutadiene	"	"	"	"	"	ND "	10	
Isopropylbenzene	"	"	"	"	"	ND "	10	
p-Isopropyltoluene	"	"	"	"	"	ND "	10	
Methyl ethyl ketone	"	"	"	"	"	ND "	20	
Methyl isobutyl ketone	"	"	"	"	"	ND "	20	
Methyl tert-butyl ether	"	"	"	"	"	ND "	10	
Methylene chloride	"	"	"	"	"	ND "	10	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-7-GW (A307608-05)			**Sample Type: Water**			**Sampled: 07/24/03 17:30**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									**R-04**
Naphthalene	8260B	"	"	08/01/03	"	ND "		10	
n-Propylbenzene	"	"	"	"	"	ND "		10	
Styrene	"	"	"	"	"	ND "		10	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "		10	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "		10	
Tetrachloroethene	"	"	"	"	"	ND "		10	
Toluene	"	"	"	"	"	ND "		6.0	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "		10	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "		10	
1,1,1-Trichloroethane	"	"	"	"	"	ND "		10	
1,1,2-Trichloroethane	"	"	"	"	"	ND "		10	
Trichloroethene	"	"	"	"	"	ND "		10	
Trichlorofluoromethane	"	"	"	"	"	ND "		10	
Trichlorotrifluoroethane	"	"	"	"	"	ND "		10	
1,2,3-Trichloropropane	"	"	"	"	"	ND "		10	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "		10	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "		10	
Vinyl chloride	"	"	"	"	"	ND "		10	
m,p-Xylene	"	"	"	"	"	ND "		10	
o-Xylene	"	"	"	"	"	ND "		10	
Xylenes (total)	"	"	"	"	"	ND "		10	
Surrogate: Dibromofluoromethane	"	"	"	"		*96.4 %*	*69-119*		
Surrogate: Toluene-d8	"	"	"	"		*84.0 %*	*74-118*		
Surrogate: Bromofluorobenzene	"	"	"	"		*87.6 %*	*58-112*		

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Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-7-GW (A307608-05)			**Sample Type: Water**			**Sampled: 07/24/03 17:30**			
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31111	07/30/03	08/11/03	1	ND ug/l		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Decachlorobiphenyl	"	"	"	"		*64.0 %*	*50-170*		
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*100 %*	*40-140*		
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AH30107	07/30/03	07/30/03	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	"	"	"	"		*102 %*	*79-119*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.0526	**210 ug/l**		**53**	
TPH as Motor Oil	"	"	"	"	"	ND "		110	R-02
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*55.3 %*	*14-116*		

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8/12/03

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CHEMICAL EXAMINATION REPORT

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180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-7-GW (A307608-05)			**Sample Type: Water**			**Sampled: 07/24/03 17:30**		
TPH as Gasoline by GCFID/5030								
TPH as Gasoline	8015GRO	AH30519	08/01/03	08/01/03	1	ND ug/l	50	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*68.0 %* *63-150*		
WO-8-GW (A307608-06)			**Sample Type: Water**			**Sampled: 07/24/03 17:15**		
Volatile Organic Compounds by EPA Method 8260B								**R-04**
Acetone	8260B	AH30516	07/31/03	08/01/03	10	ND ug/l	50	
Benzene	"	"	"	"	"	ND "	3.0	
Bromobenzene	"	"	"	"	"	ND "	5.0	
Bromochloromethane	"	"	"	"	"	ND "	5.0	
Bromodichloromethane	"	"	"	"	"	ND "	5.0	
Bromoform	"	"	"	"	"	ND "	5.0	
Bromomethane	"	"	"	"	"	ND "	5.0	
n-Butylbenzene	"	"	"	"	"	ND "	5.0	
sec-Butylbenzene	"	"	"	"	"	ND "	5.0	
tert-Butylbenzene	"	"	"	"	"	ND "	5.0	
Carbon tetrachloride	"	"	"	"	"	ND "	5.0	
Chlorobenzene	"	"	"	"	"	ND "	5.0	
Chloroethane	"	"	"	"	"	ND "	5.0	
Chloroform	"	"	"	"	"	ND "	5.0	
Chloromethane	"	"	"	"	"	ND "	5.0	
2-Chlorotoluene	"	"	"	"	"	ND "	5.0	
4-Chlorotoluene	"	"	"	"	"	ND "	5.0	
Dibromochloromethane	"	"	"	"	"	ND "	5.0	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	5.0	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	5.0	
Dibromomethane	"	"	"	"	"	ND "	5.0	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
Dichlorodifluoromethane	"	"	"	"	"	ND "	5.0	
1,1-Dichloroethane	"	"	"	"	"	ND "	5.0	

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A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-8-GW (A307608-06)			**Sample Type: Water**			**Sampled: 07/24/03 17:15**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
1,2-Dichloroethane	8260B	"	"	08/01/03	"	ND "	5.0	
1,1-Dichloroethene	"	"	"	"	"	ND "	3.0	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	5.0	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	5.0	
1,2-Dichloropropane	"	"	"	"	"	ND "	5.0	
1,3-Dichloropropane	"	"	"	"	"	ND "	5.0	
2,2-Dichloropropane	"	"	"	"	"	ND "	5.0	
1,1-Dichloropropene	"	"	"	"	"	ND "	5.0	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	5.0	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	5.0	
Ethylbenzene	"	"	"	"	"	ND "	5.0	
Hexachlorobutadiene	"	"	"	"	"	ND "	5.0	
Isopropylbenzene	"	"	"	"	"	ND "	5.0	
p-Isopropyltoluene	"	"	"	"	"	ND "	5.0	
Methyl ethyl ketone	"	"	"	"	"	ND "	10	
Methyl isobutyl ketone	"	"	"	"	"	ND "	10	
Methyl tert-butyl ether	"	"	"	"	"	ND "	5.0	
Methylene chloride	"	"	"	"	"	ND "	5.0	
Naphthalene	"	"	"	"	"	ND "	5.0	
n-Propylbenzene	"	"	"	"	"	ND "	5.0	
Styrene	"	"	"	"	"	ND "	5.0	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	5.0	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	5.0	
Tetrachloroethene	"	"	"	"	"	ND "	5.0	
Toluene	"	"	"	"	"	ND "	3.0	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	5.0	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	5.0	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	5.0	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	5.0	
Trichloroethene	"	"	"	"	"	ND "	5.0	
Trichlorofluoromethane	"	"	"	"	"	ND "	5.0	

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Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-8-GW (A307608-06)			**Sample Type: Water**			**Sampled: 07/24/03 17:15**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									**R-04**
Trichlorotrifluoroethane	8260B	"	"	08/01/03	"	ND "		5.0	
1,2,3-Trichloropropane	"	"	"	"	"	ND "		5.0	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "		5.0	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "		5.0	
Vinyl chloride	"	"	"	"	"	ND "		5.0	
m,p-Xylene	"	"	"	"	"	ND "		5.0	
o-Xylene	"	"	"	"	"	ND "		5.0	
Xylenes (total)	"	"	"	"	"	ND "		5.0	
Surrogate: Dibromofluoromethane	"	"	"	"		*96.4 %*	*69-119*		
Surrogate: Toluene-d8	"	"	"	"		*84.0 %*	*74-118*		
Surrogate: Bromofluorobenzene	"	"	"	"		*86.8 %*	*58-112*		
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31111	07/30/03	08/11/03	1	ND ug/l		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Decachlorobiphenyl	"	"	"	"		*74.0 %*	*50-170*		
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*60.0 %*	*40-140*		

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Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-8-GW (A307608-06)			**Sample Type: Water**			**Sampled: 07/24/03 17:15**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AH30107	07/30/03	07/30/03	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	"	"	"	"		*96.0 %*	*79-119*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.111	**94 ug/l**		**56**	
TPH as Motor Oil	"	"	"	"	"	**210 "**		**110**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*52.1 %*	*14-116*		
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	8015GRO	AH30519	08/01/03	08/01/03	1	ND ug/l		50	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*62.8 %*	*63-150*		
WO-9-GW (A307608-07)			**Sample Type: Water**			**Sampled: 07/24/03 18:15**			
Volatile Organic Compounds by EPA Method 8260B									**R-04**
Acetone	8260B	AH30516	07/31/03	08/01/03	20	ND ug/l		100	
Benzene	"	"	"	"	"	ND "		6.0	
Bromobenzene	"	"	"	"	"	ND "		10	
Bromochloromethane	"	"	"	"	"	ND "		10	
Bromodichloromethane	"	"	"	"	"	ND "		10	
Bromoform	"	"	"	"	"	ND "		10	
Bromomethane	"	"	"	"	"	ND "		10	
n-Butylbenzene	"	"	"	"	"	ND "		10	
sec-Butylbenzene	"	"	"	"	"	ND "		10	
tert-Butylbenzene	"	"	"	"	"	ND "		10	
Carbon tetrachloride	"	"	"	"	"	ND "		10	
Chlorobenzene	"	"	"	"	"	ND "		10	
Chloroethane	"	"	"	"	"	ND "		10	

Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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Report Date: 08/12/03 08:25
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Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-9-GW (A307608-07)			**Sample Type: Water**			**Sampled: 07/24/03 18:15**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
Chloroform	8260B	"	"	08/01/03	"	ND "	10	
Chloromethane	"	"	"	"	"	ND "	10	
2-Chlorotoluene	"	"	"	"	"	ND "	10	
4-Chlorotoluene	"	"	"	"	"	ND "	10	
Dibromochloromethane	"	"	"	"	"	ND "	10	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	10	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	10	
Dibromomethane	"	"	"	"	"	ND "	10	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	10	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	10	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	10	
Dichlorodifluoromethane	"	"	"	"	"	ND "	10	
1,1-Dichloroethane	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	10	
1,1-Dichloroethene	"	"	"	"	"	ND "	6.0	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	10	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	10	
1,2-Dichloropropane	"	"	"	"	"	ND "	10	
1,3-Dichloropropane	"	"	"	"	"	ND "	10	
2,2-Dichloropropane	"	"	"	"	"	ND "	10	
1,1-Dichloropropene	"	"	"	"	"	ND "	10	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	10	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	10	
Ethylbenzene	"	"	"	"	"	ND "	10	
Hexachlorobutadiene	"	"	"	"	"	ND "	10	
Isopropylbenzene	"	"	"	"	"	ND "	10	
p-Isopropyltoluene	"	"	"	"	"	ND "	10	
Methyl ethyl ketone	"	"	"	"	"	ND "	20	
Methyl isobutyl ketone	"	"	"	"	"	ND "	20	
Methyl tert-butyl ether	"	"	"	"	"	ND "	10	
Methylene chloride	"	"	"	"	"	ND "	10	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-9-GW (A307608-07)			**Sample Type: Water**			**Sampled: 07/24/03 18:15**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									**R-04**
Naphthalene	8260B	"	"	08/01/03	"	ND	"	10	
n-Propylbenzene	"	"	"	"	"	ND	"	10	
Styrene	"	"	"	"	"	ND	"	10	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND	"	10	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND	"	10	
Tetrachloroethene	"	"	"	"	"	ND	"	10	
Toluene	"	"	"	"	"	ND	"	6.0	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND	"	10	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND	"	10	
1,1,1-Trichloroethane	"	"	"	"	"	ND	"	10	
1,1,2-Trichloroethane	"	"	"	"	"	ND	"	10	
Trichloroethene	"	"	"	"	"	ND	"	10	
Trichlorofluoromethane	"	"	"	"	"	ND	"	10	
Trichlorotrifluoroethane	"	"	"	"	"	ND	"	10	
1,2,3-Trichloropropane	"	"	"	"	"	ND	"	10	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND	"	10	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND	"	10	
Vinyl chloride	"	"	"	"	"	ND	"	10	
m,p-Xylene	"	"	"	"	"	ND	"	10	
o-Xylene	"	"	"	"	"	ND	"	10	
Xylenes (total)	"	"	"	"	"	ND	"	10	
Surrogate: Dibromofluoromethane	"	"	"	"		*96.0 %*	*69-119*		
Surrogate: Toluene-d8	"	"	"	"		*83.6 %*	*74-118*		
Surrogate: Bromofluorobenzene	"	"	"	"		*86.8 %*	*58-112*		

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Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-9-GW (A307608-07)			**Sample Type: Water**			**Sampled: 07/24/03 18:15**			
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31111	07/30/03	08/11/03	1	ND ug/l		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Decachlorobiphenyl	"	"	"	"		*70.0 %*	*50-170*		
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*68.0 %*	*40-140*		
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AH30107	07/30/03	07/30/03	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	"	"	"	"		*97.6 %*	*79-119*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.1236	**210 ug/l**		**56**	D-13
TPH as Motor Oil	"	"	"	"	"	**150 "**		**110**	D-12
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*59.8 %*	*14-116*		

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Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-9-GW (A307608-07)			**Sample Type: Water**			**Sampled: 07/24/03 18:15**			
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	8015GRO	AH30519	08/01/03	08/01/03	1	ND ug/l		50	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*63.2 %*	*63-150*		
WO-10-GW (A307608-08)			**Sample Type: Water**			**Sampled: 07/24/03 18:45**			
Volatile Organic Compounds by EPA Method 8260B									**R-04**
Acetone	8260B	AH30516	07/31/03	08/01/03	100	ND ug/l		500	
Benzene	"	"	"	"	"	ND "		30	
Bromobenzene	"	"	"	"	"	ND "		50	
Bromochloromethane	"	"	"	"	"	ND "		50	
Bromodichloromethane	"	"	"	"	"	ND "		50	
Bromoform	"	"	"	"	"	ND "		50	
Bromomethane	"	"	"	"	"	ND "		50	
n-Butylbenzene	"	"	"	"	"	ND "		50	
sec-Butylbenzene	"	"	"	"	"	ND "		50	
tert-Butylbenzene	"	"	"	"	"	ND "		50	
Carbon tetrachloride	"	"	"	"	"	ND "		50	
Chlorobenzene	"	"	"	"	"	ND "		50	
Chloroethane	"	"	"	"	"	ND "		50	
Chloroform	"	"	"	"	"	ND "		50	
Chloromethane	"	"	"	"	"	ND "		50	
2-Chlorotoluene	"	"	"	"	"	ND "		50	
4-Chlorotoluene	"	"	"	"	"	ND "		50	
Dibromochloromethane	"	"	"	"	"	ND "		50	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "		50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		50	
Dibromomethane	"	"	"	"	"	ND "		50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		50	
Dichlorodifluoromethane	"	"	"	"	"	ND "		50	
1,1-Dichloroethane	"	"	"	"	"	ND "		50	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
WO-10-GW (A307608-08)			**Sample Type: Water**			**Sampled: 07/24/03 18:45**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
1,2-Dichloroethane	8260B	"	"	08/01/03	"	ND "	50	
1,1-Dichloroethene	"	"	"	"	"	ND "	30	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	50	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	50	
1,2-Dichloropropane	"	"	"	"	"	ND "	50	
1,3-Dichloropropane	"	"	"	"	"	ND "	50	
2,2-Dichloropropane	"	"	"	"	"	ND "	50	
1,1-Dichloropropene	"	"	"	"	"	ND "	50	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	50	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	50	
Ethylbenzene	"	"	"	"	"	ND "	50	
Hexachlorobutadiene	"	"	"	"	"	ND "	50	
Isopropylbenzene	"	"	"	"	"	ND "	50	
p-Isopropyltoluene	"	"	"	"	"	ND "	50	
Methyl ethyl ketone	"	"	"	"	"	ND "	100	
Methyl isobutyl ketone	"	"	"	"	"	ND "	100	
Methyl tert-butyl ether	"	"	"	"	"	ND "	50	
Methylene chloride	"	"	"	"	"	ND "	50	
Naphthalene	"	"	"	"	"	ND "	50	
n-Propylbenzene	"	"	"	"	"	ND "	50	
Styrene	"	"	"	"	"	ND "	50	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	50	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	50	
Tetrachloroethene	"	"	"	"	"	ND "	50	
Toluene	"	"	"	"	"	ND "	30	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	50	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	50	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	50	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	50	
Trichloroethene	"	"	"	"	"	ND "	50	
Trichlorofluoromethane	"	"	"	"	"	ND "	50	

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A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-10-GW (A307608-08)			**Sample Type: Water**			**Sampled: 07/24/03 18:45**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									**R-04**
Trichlorotrifluoroethane	8260B	"	"	08/01/03	"	ND "		50	
1,2,3-Trichloropropane	"	"	"	"	"	ND "		50	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "		50	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "		50	
Vinyl chloride	"	"	"	"	"	ND "		50	
m,p-Xylene	"	"	"	"	"	ND "		50	
o-Xylene	"	"	"	"	"	ND "		50	
Xylenes (total)	"	"	"	"	"	ND "		50	
Surrogate: Dibromofluoromethane	"	"	"	"		*93.6 %*	*69-119*		
Surrogate: Toluene-d8	"	"	"	"		*82.4 %*	*74-118*		
Surrogate: Bromofluorobenzene	"	"	"	"		*86.4 %*	*58-112*		
Polychlorinated Biphenyls by EPA Method 8080A									
PCB-1016	8080	AH31111	07/30/03	08/11/03	1	ND ug/l		0.20	
PCB-1221	"	"	"	"	"	ND "		0.20	
PCB-1232	"	"	"	"	"	ND "		0.20	
PCB-1242	"	"	"	"	"	ND "		0.20	
PCB-1248	"	"	"	"	"	ND "		0.20	
PCB-1254	"	"	"	"	"	ND "		0.20	
PCB-1260	"	"	"	"	"	ND "		0.20	
PCB-1262	"	"	"	"	"	ND "		0.20	
Surrogate: Decachlorobiphenyl	"	"	"	"		*72.0 %*	*50-170*		
Surrogate: Tetrachloro-meta-xylene	"	"	"	"		*58.0 %*	*40-140*		

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A307608	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
WO-10-GW (A307608-08)			**Sample Type: Water**			**Sampled: 07/24/03 18:45**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AH30107	07/30/03	07/30/03	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	"	"	"	"		*94.8 %*	*79-119*		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.0526	**190 ug/l**		**53**	D-13
TPH as Motor Oil	"	"	"	"	"	ND "		110	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*60.2 %*	*14-116*		
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	8015GRO	AH30519	08/01/03	08/01/03	1	ND ug/l		50	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*70.1 %*	*63-150*		

Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

SourceResult

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
Blank (AH30516-BLK1)				Prepared & Analyzed: 07/31/03						
Acetone	ND	5.0	ug/l							
Benzene	ND	0.30	"							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
Blank (AH30516-BLK1)				Prepared & Analyzed: 07/31/03						
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.30	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methyl ethyl ketone	ND	1.0	"							
Methyl isobutyl ketone	ND	1.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.30	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
Blank (AH30516-BLK1)				Prepared & Analyzed: 07/31/03						
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Trichlorotrifluoroethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
m,p-Xylene	ND	0.50	"							
o-Xylene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	*23.6*		"	*25.0*		*94.4*	*69-119*			
Surrogate: Toluene-d8	*21.0*		"	*25.0*		*84.0*	*74-118*			
Surrogate: Bromofluorobenzene	*21.8*		"	*25.0*		*87.2*	*58-112*			
LCS (AH30516-BS1)				Prepared & Analyzed: 07/31/03						
Acetone	36.1	5.0	ug/l	39.4		91.6	48-147			
Benzene	9.90	0.30	"	10.0		99.0	79-116			
Bromobenzene	9.64	0.50	"	10.0		96.4	85-117			
Bromochloromethane	9.77	0.50	"	10.0		97.7	75-120			
Bromodichloromethane	10.1	0.50	"	10.0		101	76-117			
Bromoform	10.9	0.50	"	10.0		109	71-118			
Bromomethane	10.6	0.50	"	10.0		106	51-182			
n-Butylbenzene	9.99	0.50	"	10.0		99.9	77-115			
sec-Butylbenzene	10.3	0.50	"	10.0		103	80-122			
tert-Butylbenzene	9.89	0.50	"	10.0		98.9	79-116			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
LCS (AH30516-BS1)				Prepared & Analyzed: 07/31/03						
Carbon tetrachloride	11.0	0.50	"	10.0		110	72-125			
Chlorobenzene	9.83	0.50	"	10.0		98.3	82-112			
Chloroethane	10.4	0.50	"	10.0		104	75-126			
Chloroform	9.67	0.50	"	10.0		96.7	77-117			
Chloromethane	10.5	0.50	"	10.0		105	68-133			
2-Chlorotoluene	10.3	0.50	"	10.0		103	79-119			
4-Chlorotoluene	10.0	0.50	"	10.0		100	76-117			
Dibromochloromethane	10.6	0.50	"	10.0		106	80-116			
1,2-Dibromo-3-chloropropane	10.8	0.50	"	10.0		108	68-122			
1,2-Dibromoethane (EDB)	10.4	0.50	"	10.0		104	84-117			
Dibromomethane	9.74	0.50	"	10.0		97.4	83-115			
1,2-Dichlorobenzene	9.89	0.50	"	10.0		98.9	83-113			
1,3-Dichlorobenzene	9.72	0.50	"	10.0		97.2	82-117			
1,4-Dichlorobenzene	9.86	0.50	"	10.0		98.6	85-113			
Dichlorodifluoromethane	13.0	0.50	"	10.0		130	58-162			
1,1-Dichloroethane	9.37	0.50	"	10.0		93.7	75-126			
1,2-Dichloroethane	9.45	0.50	"	10.0		94.5	78-115			
1,1-Dichloroethene	10.4	0.30	"	10.0		104	77-123			
cis-1,2-Dichloroethene	9.60	0.50	"	10.0		96.0	75-117			
trans-1,2-Dichloroethene	9.16	0.50	"	10.0		91.6	79-114			
1,2-Dichloropropane	10.5	0.50	"	10.0		105	75-116			
1,3-Dichloropropane	10.5	0.50	"	10.0		105	83-118			
2,2-Dichloropropane	9.48	0.50	"	10.0		94.8	71-123			
1,1-Dichloropropene	10.1	0.50	"	10.0		101	74-119			
cis-1,3-Dichloropropene	10.8	0.50	"	10.0		108	77-124			
trans-1,3-Dichloropropene	10.2	0.50	"	10.0		102	70-113			
Ethylbenzene	10.1	0.50	"	10.0		101	81-119			

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Project Manager

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
LCS (AH30516-BS1)				Prepared & Analyzed: 07/31/03						
Hexachlorobutadiene	10.9	0.50	"	10.0		109	79-122			
Isopropylbenzene	9.60	0.50	"	10.0		96.0	80-116			
p-Isopropyltoluene	9.53	0.50	"	10.0		95.3	73-114			
Methyl ethyl ketone	21.1	1.0	"	20.0		106	73-125			
Methyl isobutyl ketone	20.2	1.0	"	20.0		101	68-125			
Methyl tert-butyl ether	9.59	0.50	"	10.0		95.9	73-127			
Methylene chloride	10.1	0.50	"	10.0		101	79-113			
Naphthalene	9.88	0.50	"	10.0		98.8	66-116			
n-Propylbenzene	9.88	0.50	"	10.0		98.8	78-117			
Styrene	11.1	0.50	"	10.0		111	62-135			
1,1,1,2-Tetrachloroethane	11.2	0.50	"	10.0		112	79-124			
1,1,2,2-Tetrachloroethane	10.5	0.50	"	10.0		105	80-116			
Tetrachloroethene	9.66	0.50	"	10.0		96.6	82-120			
Toluene	9.97	0.30	"	10.0		99.7	83-120			
1,2,3-Trichlorobenzene	10.0	0.50	"	10.0		100	80-115			
1,2,4-Trichlorobenzene	9.85	0.50	"	10.0		98.5	78-114			
1,1,1-Trichloroethane	10.8	0.50	"	10.0		108	74-120			
1,1,2-Trichloroethane	10.3	0.50	"	10.0		103	79-117			
Trichloroethene	10.4	0.50	"	10.0		104	77-124			
Trichlorofluoromethane	10.3	0.50	"	10.0		103	78-124			
Trichlorotrifluoroethane	10.4	0.50	"	9.84		106	83-123			
1,2,3-Trichloropropane	10.4	0.50	"	10.0		104	86-117			
1,2,4-Trimethylbenzene	10.4	0.50	"	10.0		104	82-120			
1,3,5-Trimethylbenzene	9.85	0.50	"	10.0		98.5	78-116			
Vinyl chloride	10.8	0.50	"	10.0		108	72-131			
m,p-Xylene	20.5	0.50	"	20.0		102	80-118			
o-Xylene	10.0	0.50	"	10.0		100	79-121			

Nena M. Burgess For Sheri L. Speaks
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8/12/03

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
LCS (AH30516-BS1)				Prepared & Analyzed: 07/31/03						
Xylenes (total)	30.5	0.50	"	30.0		102	79-121			
Surrogate: Dibromofluoromethane	*19.6*		"	*25.0*		*78.4*	*69-119*			
Surrogate: Toluene-d8	*20.9*		"	*25.0*		*83.6*	*74-118*			
Surrogate: Bromofluorobenzene	*21.7*		"	*25.0*		*86.8*	*58-112*			
LCS Dup (AH30516-BSD1)				Prepared & Analyzed: 07/31/03						
Acetone	41.2	5.0	ug/l	39.4		105	48-147	13.2	25	
Benzene	9.85	0.30	"	10.0		98.5	79-116	0.506	25	
Bromobenzene	9.59	0.50	"	10.0		95.9	85-117	0.520	25	
Bromochloromethane	9.14	0.50	"	10.0		91.4	75-120	6.66	25	
Bromodichloromethane	10.6	0.50	"	10.0		106	76-117	4.83	25	
Bromoform	11.2	0.50	"	10.0		112	71-118	2.71	25	
Bromomethane	9.36	0.50	"	10.0		93.6	51-182	12.4	25	
n-Butylbenzene	9.70	0.50	"	10.0		97.0	77-115	2.95	25	
sec-Butylbenzene	9.64	0.50	"	10.0		96.4	80-122	6.62	25	
tert-Butylbenzene	9.21	0.50	"	10.0		92.1	79-116	7.12	25	
Carbon tetrachloride	11.0	0.50	"	10.0		110	72-125	0.00	25	
Chlorobenzene	9.60	0.50	"	10.0		96.0	82-112	2.37	25	
Chloroethane	9.45	0.50	"	10.0		94.5	75-126	9.57	25	
Chloroform	10.2	0.50	"	10.0		102	77-117	5.33	25	
Chloromethane	10.0	0.50	"	10.0		100	68-133	4.88	25	
2-Chlorotoluene	9.28	0.50	"	10.0		92.8	79-119	10.4	25	
4-Chlorotoluene	9.35	0.50	"	10.0		93.5	76-117	6.72	25	
Dibromochloromethane	11.2	0.50	"	10.0		112	80-116	5.50	25	
1,2-Dibromo-3-chloropropane	11.1	0.50	"	10.0		111	68-122	2.74	25	
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0		108	84-117	3.77	25	
Dibromomethane	9.38	0.50	"	10.0		93.8	83-115	3.77	25	

Nena M. Burgess For Sheri L. Speaks
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8/12/03

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
LCS Dup (AH30516-BSD1)				Prepared & Analyzed: 07/31/03						
1,2-Dichlorobenzene	9.97	0.50	"	10.0		99.7	83-113	0.806	25	
1,3-Dichlorobenzene	9.24	0.50	"	10.0		92.4	82-117	5.06	25	
1,4-Dichlorobenzene	10.1	0.50	"	10.0		101	85-113	2.40	25	
Dichlorodifluoromethane	12.0	0.50	"	10.0		120	58-162	8.00	25	
1,1-Dichloroethane	10.0	0.50	"	10.0		100	75-126	6.50	25	
1,2-Dichloroethane	9.74	0.50	"	10.0		97.4	78-115	3.02	25	
1,1-Dichloroethene	10.9	0.30	"	10.0		109	77-123	4.69	25	
cis-1,2-Dichloroethene	10.4	0.50	"	10.0		104	75-117	8.00	25	
trans-1,2-Dichloroethene	9.46	0.50	"	10.0		94.6	79-114	3.22	25	
1,2-Dichloropropane	10.4	0.50	"	10.0		104	75-116	0.957	25	
1,3-Dichloropropane	11.1	0.50	"	10.0		111	83-118	5.56	25	
2,2-Dichloropropane	7.38	0.50	"	10.0		73.8	71-123	24.9	25	
1,1-Dichloropropene	10.4	0.50	"	10.0		104	74-119	2.93	25	
cis-1,3-Dichloropropene	10.1	0.50	"	10.0		101	77-124	6.70	25	
trans-1,3-Dichloropropene	10.4	0.50	"	10.0		104	70-113	1.94	25	
Ethylbenzene	9.69	0.50	"	10.0		96.9	81-119	4.14	25	
Hexachlorobutadiene	10.7	0.50	"	10.0		107	79-122	1.85	25	
Isopropylbenzene	9.11	0.50	"	10.0		91.1	80-116	5.24	25	
p-Isopropyltoluene	8.99	0.50	"	10.0		89.9	73-114	5.83	25	
Methyl ethyl ketone	21.5	1.0	"	20.0		108	73-125	1.88	25	
Methyl isobutyl ketone	20.7	1.0	"	20.0		104	68-125	2.44	25	
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	73-127	6.16	25	
Methylene chloride	9.60	0.50	"	10.0		96.0	79-113	5.08	25	
Naphthalene	9.92	0.50	"	10.0		99.2	66-116	0.404	25	
n-Propylbenzene	9.39	0.50	"	10.0		93.9	78-117	5.09	25	
Styrene	9.69	0.50	"	10.0		96.9	62-135	13.6	25	
1,1,1,2-Tetrachloroethane	11.7	0.50	"	10.0		117	79-124	4.37	25	

Nena M. Burgess For Sheri L. Speaks
Project Manager

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A307608	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
LCS Dup (AH30516-BSD1)				Prepared & Analyzed: 07/31/03						
1,1,2,2-Tetrachloroethane	10.7	0.50	"	10.0		107	80-116	1.89	25	
Tetrachloroethene	9.59	0.50	"	10.0		95.9	82-120	0.727	25	
Toluene	9.86	0.30	"	10.0		98.6	83-120	1.11	25	
1,2,3-Trichlorobenzene	9.88	0.50	"	10.0		98.8	80-115	1.21	25	
1,2,4-Trichlorobenzene	10.1	0.50	"	10.0		101	78-114	2.51	25	
1,1,1-Trichloroethane	11.5	0.50	"	10.0		115	74-120	6.28	25	
1,1,2-Trichloroethane	10.8	0.50	"	10.0		108	79-117	4.74	25	
Trichloroethene	10.4	0.50	"	10.0		104	77-124	0.00	25	
Trichlorofluoromethane	11.2	0.50	"	10.0		112	78-124	8.37	25	
Trichlorotrifluoroethane	10.6	0.50	"	9.84		108	83-123	1.90	25	
1,2,3-Trichloropropane	10.6	0.50	"	10.0		106	86-117	1.90	25	
1,2,4-Trimethylbenzene	9.67	0.50	"	10.0		96.7	82-120	7.27	25	
1,3,5-Trimethylbenzene	9.16	0.50	"	10.0		91.6	78-116	7.26	25	
Vinyl chloride	10.4	0.50	"	10.0		104	72-131	3.77	25	
m,p-Xylene	19.2	0.50	"	20.0		96.0	80-118	6.55	25	
o-Xylene	9.51	0.50	"	10.0		95.1	79-121	5.02	25	
Xylenes (total)	28.7	0.50	"	30.0		95.7	79-121	6.08	25	
Surrogate: Dibromofluoromethane	*21.0*		"	*25.0*		*84.0*	*69-119*			
Surrogate: Toluene-d8	*21.4*		"	*25.0*		*85.6*	*74-118*			
Surrogate: Bromofluorobenzene	*21.0*		"	*25.0*		*84.0*	*58-112*			
Matrix Spike (AH30516-MS1)	**Source: A307610-03**			Prepared & Analyzed: 07/31/03						
Acetone	34.4	5.0	ug/l	39.4	ND	87.3	40-150			
Benzene	8.62	0.30	"	10.0	ND	86.2	63-144			
Bromobenzene	8.54	0.50	"	10.0	ND	85.4	61-143			
Bromochloromethane	9.91	0.50	"	10.0	ND	99.1	65-136			
Bromodichloromethane	9.39	0.50	"	10.0	ND	93.9	60-141			

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Nena M. Burgess For Sheri L. Speaks
Project Manager

8/12/03

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CHEMICAL EXAMINATION REPORT

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/12/03 08:25
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
Matrix Spike (AH30516-MS1)	**Source: A307610-03**		Prepared & Analyzed: 07/31/03							
Bromoform	9.19	0.50	"	10.0	ND	91.9	53-140			
Bromomethane	10.4	0.50	"	10.0	ND	104	47-175			
n-Butylbenzene	9.14	0.50	"	10.0	ND	91.4	55-154			
sec-Butylbenzene	9.33	0.50	"	10.0	ND	93.3	57-159			
tert-Butylbenzene	8.81	0.50	"	10.0	ND	88.1	57-150			
Carbon tetrachloride	10.0	0.50	"	10.0	ND	100	61-160			
Chlorobenzene	8.53	0.50	"	10.0	ND	85.3	62-139			
Chloroethane	8.83	0.50	"	10.0	ND	88.3	63-152			
Chloroform	9.68	0.50	"	10.0	ND	96.8	57-152			
Chloromethane	9.68	0.50	"	10.0	ND	96.8	59-160			
2-Chlorotoluene	8.85	0.50	"	10.0	ND	88.5	62-146			
4-Chlorotoluene	8.83	0.50	"	10.0	ND	88.3	58-146			
Dibromochloromethane	9.04	0.50	"	10.0	ND	90.4	56-141			
1,2-Dibromo-3-chloropropane	8.18	0.50	"	10.0	ND	81.8	51-136			
1,2-Dibromoethane (EDB)	8.71	0.50	"	10.0	ND	87.1	58-140			
Dibromomethane	9.68	0.50	"	10.0	ND	96.8	63-136			
1,2-Dichlorobenzene	8.46	0.50	"	10.0	ND	84.6	62-137			
1,3-Dichlorobenzene	8.54	0.50	"	10.0	ND	85.4	59-140			
1,4-Dichlorobenzene	8.49	0.50	"	10.0	ND	84.9	62-136			
Dichlorodifluoromethane	11.5	0.50	"	10.0	ND	115	45-204			
1,1-Dichloroethane	9.42	0.50	"	10.0	ND	94.2	62-156			
1,2-Dichloroethane	9.53	0.50	"	10.0	ND	95.3	61-134			
1,1-Dichloroethene	10.6	0.30	"	10.0	ND	106	70-154			
cis-1,2-Dichloroethene	9.95	0.50	"	10.0	ND	99.5	64-144			
trans-1,2-Dichloroethene	9.51	0.50	"	10.0	ND	95.1	64-146			
1,2-Dichloropropane	8.78	0.50	"	10.0	ND	87.8	61-140			
1,3-Dichloropropane	9.04	0.50	"	10.0	ND	90.4	60-140			

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A307608	07/25/2003 15:40	MFGINC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
Matrix Spike (AH30516-MS1)	**Source: A307610-03**		Prepared & Analyzed: 07/31/03							
2,2-Dichloropropane	10.2	0.50	"	10.0	ND	102	61-167			
1,1-Dichloropropene	9.16	0.50	"	10.0	ND	91.6	64-157			
cis-1,3-Dichloropropene	10.1	0.50	"	10.0	ND	101	61-151			
trans-1,3-Dichloropropene	8.80	0.50	"	10.0	ND	88.0	54-136			
Ethylbenzene	8.77	0.50	"	10.0	ND	87.7	57-155			
Hexachlorobutadiene	9.65	0.50	"	10.0	ND	96.5	60-153			
Isopropylbenzene	8.25	0.50	"	10.0	ND	82.5	56-148			
p-Isopropyltoluene	8.78	0.50	"	10.0	ND	87.8	53-149			
Methyl ethyl ketone	15.7	1.0	"	20.0	ND	78.5	54-140			
Methyl isobutyl ketone	17.4	1.0	"	20.0	ND	87.0	54-138			
Methyl tert-butyl ether	8.92	0.50	"	10.0	ND	89.2	62-156			
Methylene chloride	8.20	0.50	"	10.0	ND	82.0	61-136			
Naphthalene	9.45	0.50	"	10.0	ND	94.5	53-154			
n-Propylbenzene	8.84	0.50	"	10.0	ND	88.4	60-152			
Styrene	9.76	0.50	"	10.0	ND	97.6	58-153			
1,1,1,2-Tetrachloroethane	9.45	0.50	"	10.0	ND	94.5	57-149			
1,1,2,2-Tetrachloroethane	8.80	0.50	"	10.0	ND	88.0	60-134			
Tetrachloroethene	8.38	0.50	"	10.0	ND	83.8	50-160			
Toluene	8.67	0.30	"	10.0	ND	86.7	65-145			
1,2,3-Trichlorobenzene	8.87	0.50	"	10.0	ND	88.7	55-141			
1,2,4-Trichlorobenzene	9.01	0.50	"	10.0	ND	90.1	52-145			
1,1,1-Trichloroethane	10.3	0.50	"	10.0	ND	103	62-151			
1,1,2-Trichloroethane	8.89	0.50	"	10.0	ND	88.9	57-136			
Trichloroethene	9.20	0.50	"	10.0	ND	92.0	62-153			
Trichlorofluoromethane	10.4	0.50	"	10.0	ND	104	64-159			
Trichlorotrifluoroethane	11.1	0.50	"	9.84	ND	113	64-163			
1,2,3-Trichloropropane	8.72	0.50	"	10.0	ND	87.2	60-137			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30516 - EPA 5030 Water MS										
Matrix Spike (AH30516-MS1)	**Source: A307610-03**		Prepared & Analyzed: 07/31/03							
1,2,4-Trimethylbenzene	9.42	0.50	"	10.0	ND	94.2	55-155			
1,3,5-Trimethylbenzene	8.85	0.50	"	10.0	ND	88.5	49-155			
Vinyl chloride	9.72	0.50	"	10.0	ND	97.2	65-168			
m,p-Xylene	17.8	0.50	"	20.0	ND	89.0	60-149			
o-Xylene	8.74	0.50	"	10.0	ND	87.4	59-148			
Xylenes (total)	26.5	0.50	"	30.0	ND	88.3	59-149			
Surrogate: Dibromofluoromethane	*23.3*		"	*25.0*		*93.2*	*69-119*			
Surrogate: Toluene-d8	*21.2*		"	*25.0*		*84.8*	*74-118*			
Surrogate: Bromofluorobenzene	*22.6*		"	*25.0*		*90.4*	*58-112*			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Polychlorinated Biphenyls by EPA Method 8080A - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31111 - Solvent Extraction										
Blank (AH31111-BLK1)				Prepared: 07/30/03 Analyzed: 08/11/03						
PCB-1016	ND	0.20	ug/l							
PCB-1221	ND	0.20	"							
PCB-1232	ND	0.20	"							
PCB-1242	ND	0.20	"							
PCB-1248	ND	0.20	"							
PCB-1254	ND	0.20	"							
PCB-1260	ND	0.20	"							
PCB-1262	ND	0.20	"							
Surrogate: Decachlorobiphenyl	*0.0530*		"	*0.0500*		*106*	*50-170*			
Surrogate: Tetrachloro-meta-xylene	*0.0270*		"	*0.0500*		*54.0*	*40-140*			
LCS (AH31111-BS1)				Prepared: 07/30/03 Analyzed: 08/11/03						
PCB-1016	2.83	0.20	ug/l	3.00		94.3	54-146			
PCB-1260	2.83	0.20	"	3.00		94.3	54-146			
Surrogate: Decachlorobiphenyl	*0.0500*		"	*0.0500*		*100*	*50-170*			
Surrogate: Tetrachloro-meta-xylene	*0.0370*		"	*0.0500*		*74.0*	*40-140*			
LCS Dup (AH31111-BSD1)				Prepared: 07/30/03 Analyzed: 08/11/03						**QM-10**
PCB-1016	2.91	0.20	ug/l	3.00		97.0	54-146	2.79	40	
PCB-1260	2.91	0.20	"	3.00		97.0	54-146	2.79	40	
Surrogate: Decachlorobiphenyl	*0.0480*		"	*0.0500*		*96.0*	*50-170*			
Surrogate: Tetrachloro-meta-xylene	*0.0310*		"	*0.0500*		*62.0*	*40-140*			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

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 AH30107 - Solvent Extraction										
Blank (AH30107-BLK1)				Prepared & Analyzed: 07/30/03						
2,4,6-Trichlorophenol	ND	1.0	ug/l							
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	*22.9*		"	*24.9*		*92.0*	*79-119*			
LCS (AH30107-BS1)				Prepared & Analyzed: 07/30/03						
2,4,6-Trichlorophenol	4.60	1.0	ug/l	5.00		92.0	81-120			
2,3,5,6-Tetrachlorophenol	4.12	1.0	"	5.00		82.4	78-108			
2,3,4,6-Tetrachlorophenol	4.18	1.0	"	5.00		83.6	76-108			
2,3,4,5-Tetrachlorophenol	4.16	1.0	"	5.00		83.2	80-116			
Pentachlorophenol	4.32	1.0	"	5.00		86.4	86-109			
Surrogate: Tribromophenol	*20.4*		"	*24.9*		*81.9*	*79-119*			
LCS Dup (AH30107-BSD1)				Prepared & Analyzed: 07/30/03						
2,4,6-Trichlorophenol	5.04	1.0	ug/l	5.00		101	81-120	9.13	20	
2,3,5,6-Tetrachlorophenol	4.38	1.0	"	5.00		87.6	78-108	6.12	20	
2,3,4,6-Tetrachlorophenol	4.93	1.0	"	5.00		98.6	76-108	16.5	20	
2,3,4,5-Tetrachlorophenol	4.96	1.0	"	5.00		99.2	80-116	17.5	20	
Pentachlorophenol	5.17	1.0	"	5.00		103	86-109	17.9	20	
Surrogate: Tribromophenol	*24.9*		"	*24.9*		*100*	*79-119*			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

TPH as Diesel and Motor Oil by EPA Method 8015 Modified - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG33007 - EPA 3510B Water										
Blank (AG33007-BLK1)				Prepared: 07/30/03 Analyzed: 07/31/03						
TPH as Diesel	ND	50	ug/l							
TPH as Motor Oil	ND	100	"							
Surrogate: 1,4-Bromofluorobenzene	*463*		"	*620*		*74.7*	*14-116*			
LCS (AG33007-BS1)				Prepared: 07/30/03 Analyzed: 07/31/03						
TPH as Diesel	1990	50	ug/l	2090		95.2	57-136			
TPH as Motor Oil	2190	100	"	2090		105	58-138			
Surrogate: 1,4-Bromofluorobenzene	*503*		"	*620*		*81.1*	*14-116*			
LCS Dup (AG33007-BSD1)				Prepared: 07/30/03 Analyzed: 07/31/03						**QM-10**
TPH as Diesel	1910	50	ug/l	2090		91.4	57-136	4.10	25	
TPH as Motor Oil	2130	100	"	2090		102	58-138	2.78	25	
Surrogate: 1,4-Bromofluorobenzene	*460*		"	*620*		*74.2*	*14-116*			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

TPH as Gasoline by GCFID/5030 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30519 - EPA 5030 Water GC										
Blank (AH30519-BLK1)				Prepared & Analyzed: 08/01/03						
TPH as Gasoline	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	*20.0*		"	*23.1*		*86.6*	*63-150*			
LCS (AH30519-BS2)				Prepared & Analyzed: 08/01/03						
TPH as Gasoline	52.4	50	ug/l	50.0		105	79-123			
Surrogate: 1,4-Bromofluorobenzene	*20.2*		"	*20.0*		*101*	*63-150*			
LCS Dup (AH30519-BSD2)				Prepared & Analyzed: 08/01/03						
TPH as Gasoline	47.3	50	ug/l	50.0		94.6	79-123	10.2	15	
Surrogate: 1,4-Bromofluorobenzene	*21.0*		"	*20.0*		*105*	*63-150*			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307608	07/25/2003 15:40	MFGINC	

Notes and Definitions

D-12	The sample chromatogram contains resolved peaks within the motor oil range that do not resemble motor oil.
D-13	The sample chromatogram contains resolved peaks within the diesel range that do not resemble diesel.
QM-10	LCSD prepared with analytical batch due to insufficient sample for MS/MSD.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
R-02	Elevated Reporting Limits due to limited sample volume.
R-04	The Reporting Limits for this analysis are elevated due to sample foaming.
S-04	The surrogate recovery for this sample is outside of established control limits possibly due to a sample matrix effect.
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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Alpha Analytical Laboratories	Client Project ID: #A307608	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/02/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0307487

Lab ID	0307487-001A
Client ID	WO-3-GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	44.4	%SS2:	43.8
%SS3:	60.6	%SS4:	61.3
%SS5:	72.4	%SS6:	63.1

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

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Alpha Analytical Laboratories	Client Project ID: #A307608	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/02/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0307487

Lab ID	0307487-002A
Client ID	WO-4-GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	57	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	33	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	57.6	%SS2:	52.2
%SS3:	69.4	%SS4:	61.7
%SS5:	81.4	%SS6:	78.3

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

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Alpha Analytical Laboratories	Client Project ID: #A307608	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/02/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0307487

Lab ID	0307487-003A
Client ID	WO-5-GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	18	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	43.5	%SS2:	40.4
%SS3:	62.7	%SS4:	62.7
%SS5:	74.1	%SS6:	69.3

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307608	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/02/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0307487

Lab ID	0307487-004A
Client ID	WO-6-GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	130	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	47.5	%SS2:	47.3
%SS3:	62.5	%SS4:	61.0
%SS5:	70.0	%SS6:	65.7

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Alpha Analytical Laboratories	Client Project ID: #A307608	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/02/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0307487

Lab ID	0307487-005A
Client ID	WO-7-GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	22	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	37.3	%SS2:	37.0
%SS3:	47.0	%SS4:	46.8
%SS5:	51.0	%SS6:	43.5

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

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Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/02/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270D | Work Order: 0307487

Lab ID	0307487-006A
Client ID	WO-8-GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	17	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	40.0	%SS2:	38.6
%SS3:	51.6	%SS4:	51.2
%SS5:	56.3	%SS6:	49.1

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Alpha Analytical Laboratories	Client Project ID: #A307608	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/02/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0307487

Lab ID	0307487-007A
Client ID	WO-9-GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	11	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	26	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	46.5	%SS2:	44.6
%SS3:	62.7	%SS4:	60.6
%SS5:	69.8	%SS6:	59.8

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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Alpha Analytical Laboratories	Client Project ID: #A307608	Date Sampled: 07/24/03
208 Mason Street		Date Received: 07/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 07/29/03
	Client P.O.:	Date Analyzed: 07/30/03-08/02/03

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0307487

Lab ID	0307487-008A
Client ID	WO-10-GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	11	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	41.7	%SS2:	42.7
%SS3:	60.1	%SS4:	58.6
%SS5:	69.1	%SS6:	62.1

Comments:

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

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QC SUMMARY REPORT FOR SW8270D

Matrix: W WorkOrder: 0307487

EPA Method: SW8270D	Extraction: SW3510C	BatchID: 7995	Spiked Sample ID: N/A

	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Acenaphthene	N/A	50	N/A	N/A	N/A	56.6	55.6	1.64	30	130
4-Chloro-3-methylphenol	N/A	100	N/A	N/A	N/A	56.9	55.1	3.19	30	130
2-Chlorophenol	N/A	100	N/A	N/A	N/A	53	51.7	2.57	30	130
1,4-Dichlorobenzene	N/A	50	N/A	N/A	N/A	54.8	53.8	1.73	30	130
2,4-Dinitrotoluene	N/A	50	N/A	N/A	N/A	57.7	50.7	13.0	30	130
4-Nitrophenol	N/A	100	N/A	N/A	N/A	45.8	47.3	3.42	30	130
N-Nitrosodi-n-propylamine	N/A	50	N/A	N/A	N/A	79.2	66.5	17.4	30	130
Pentachlorophenol	N/A	100	N/A	N/A	N/A	53.4	50.4	5.70	30	130
Phenol	N/A	100	N/A	N/A	N/A	53.3	49.7	6.97	30	130
Pyrene	N/A	50	N/A	N/A	N/A	53.5	53.8	0.559	30	130
1,2,4-Trichlorobenzene	N/A	50	N/A	N/A	N/A	53.2	53.5	0.468	30	130
%SS1:	N/A	100	N/A	N/A	N/A	59.7	54.4	9.31	30	130
%SS2:	N/A	100	N/A	N/A	N/A	61	58	5.12	30	130
%SS3:	N/A	100	N/A	N/A	N/A	75.5	69.5	8.17	30	130
%SS4:	N/A	100	N/A	N/A	N/A	68.2	69.8	2.40	30	130
%SS5:	N/A	100	N/A	N/A	N/A	79.8	72.6	9.47	30	130
%SS6:	N/A	100	N/A	N/A	N/A	80	65.7	19.6	30	130

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

NONE

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

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

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

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Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030229.14 PROJECT NAME: Sierra Pacific Industries PAGE: 1 OF: 3

SAMPLER (Signature): PROJECT MANAGER: Ed Conti DATE: 7/25/03

METHOD OF SHIPMENT: Lab Courier CARRIER/WAYBILL NO: — DESTINATION: Alpha Analytical

SAMPLES

ANALYSIS REQUEST

Field Sample Identification	Sample DATE	Sample TIME	Matrix*	Preservation HCl	Preservation HNO_3	Preservation H_2SO_4	Preservation COLD	FILTRATION*	Containers VOLUME (ml/oz)	Containers TYPE*	Containers NO.	Constituents/Method VOCs 8260 TPH gas 8015	SVOCs 8270	TEPH 3510	Con. Pulp Mech	PCBs 8080	Handling HOLD	Handling RUSH	Handling STANDARD	Remarks
WO-3-GW	7/24/03	18:30	AQ	X			X	U	40ml	G	6	X							X	A3071608-1
WO-3-GW		18:30	AQ				X	U	1L	G	3		X	X		X			X	
WO-3-GW		18:30	AQ				X	U	4oz	G	1				X				X	
WO-4-GW		17:00	AQ	X			X	U	40ml	G	6	X							X	
WO-4-GW		17:00	AQ				X	U	1L	G	3		X	X		X			X	
WO-4-GW		17:00	AQ				X	U	4oz	G	1				X				X	
WO-5-GW		16:15	AQ	X			X	U	40ml	G	6	X							X	
WO-5-GW		16:15	AQ				X	U	1L	G	3		X	X		X			X	
WO-5-GW		16:15	AQ				X	U	4oz	G	1				X				X	
WO-6-GW		16:00	AQ	X			X	U	40ml	G	6	X							X	

RECEIVED AUG 15 2003 MFG, Inc.

TOTAL NUMBER OF CONTAINERS 80

LABORATORY COMMENTS/CONDITION OF SAMPLES

Cooler Temp:

RELINQUISHED BY: SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	RECIEVED BY: SIGNATURE	PRINTED NAME	COMPANY
	Christopher Sill	MFG-SF	7/25/03	7/25/03 11:35	J. Matthews	J. Matthews	Alpha
							LABORATORY
Jack Matthews	Jack Matthews	Alpha	7/25/03	15:40	D. Speaks	D. Speaks	

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered

DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43244

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Lynnwood, WA 98036-5707
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Fax: (425) 921-4040

PROJECT NO: 030229.14 PROJECT NAME: Sierra Pacific Industries PAGE: 2 OF: 3

SAMPLER (Signature): [signature] PROJECT MANAGER: Ed Conti DATE: 7/25/03

METHOD OF SHIPMENT: Lab Courier CARRIER/WAYBILL NO: — DESTINATION: Alpha Analytical

SAMPLES

Field Sample Identification	Sample DATE	Sample TIME	Matrix*	Preservation HCl	Preservation HNO_3	Preservation H_2SO_4	Preservation COLD		FILTRATION*	Containers VOLUME (ml/oz)	Containers TYPE*	Containers NO.
WO-6-GW	7/24/03	16:00	AQ				X		U	1L	G	3
WO-6-GW		16:00	AQ				X		U	40z	G	1
WO-7-GW		17:30	AQ	X			X		U	40ml	G	6
WO-7-GW		17:30	AQ				X		U	1L	G	3
WO-7-GW		17:30	AQ				X		U	4oz	G	1
WO-8-GW		17:15	AQ	X			X		U	40ml	G	6
WO-8-GW		17:15	AQ				X		U	1L	G	3
WO-8-GW		17:15	AQ				X		U	4oz	G	1
WO-9-GW		18:15	AQ	X			X		U	40ml	G	6
WO-9-GW	↓	18:15	AQ				X		U	1L	G	3

TOTAL NUMBER OF CONTAINERS (60)

ANALYSIS REQUEST

Constituents/Method: VOCs 8260 TPHgas BOIS	SVOCs 8270	TEPH d+m.o.	Can. Pulp Meth.	PCBs 8080	Handling: HOLD	RUSH	STANDARD	Remarks
	X	X		X			X	A3071608-4
			X				X	
X							X	5
	X	X		X			X	
			X				X	
X							X	6
	X	X		X			X	
			X				X	
X							X	7
	X	X		X			X	

RECEIVED AUG 15 2003 MFG, Inc.

LABORATORY COMMENTS/CONDITION OF SAMPLES Cooler Temp:

RELINQUISHED BY: SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	RECIEVED BY: SIGNATURE	PRINTED NAME	COMPANY
[signature]	Christopher Spill	MFG-SF	7/25/03	7/25/03 11:35	J. Matthews	J. Matthews	Alpha
Jack Matthews	Jack Matthews	Alpha	7/25/03	15:40	S. Speaks	S. Speaks	LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered

DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43243

☐ Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

☐ Boulder Office
4900 Pearl East Circle
Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

☐ Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954

☐ Osburn Office
P.O. Box 30
Wallace, ID
83873-0030
Tel: (208) 556-6811
Fax: (208) 556-7271

☒ San Francisco Office
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone (415) 495-7110 – Fax (415) 495-7107

☐ Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

☐ _____

PROJECT NO: 030229.14 PROJECT NAME: Sierra Pacific Industries PAGE: 3 OF: 3

SAMPLER (Signature): _____ PROJECT MANAGER: Ed Conti DATE: 7/25/03

METHOD OF SHIPMENT: Lab Courier CARRIER/WAYBILL NO: — DESTINATION: Alpha Analytical

SAMPLES

Field Sample Identification	Sample DATE	Sample TIME	Sample Matrix*	Preservation HCl	Preservation HNO_3	Preservation H_2SO_4	Preservation COLD	Preservation	FILTRATION*	Containers VOLUME (ml/oz)	Containers TYPE*	Containers NO.
WO-9-GW	7/24/03	18:15	AQ				X		U	40z	G	1
WO-10-GW		18:45	AQ	X			X		U	40ml	G	6
WO-10-GW		18:45	AQ				X		U	1L	G	3
WO-10-GW	↓	18:45	AQ				X		U	40z	G	1

TOTAL NUMBER OF CONTAINERS 80

ANALYSIS REQUEST

Constituents/Method: VOCs 8260 TPH gas BTEX	SVOCs 8270	TEPH d+m.o.	Can. Pip Meth	PCBs 8000	Handling: HOLD	RUSH	STANDARD	Remarks
			X				X	A307608 - 7
X							X	8
	X	X		X			X	
			X				X	

RECEIVED
AUG 15 2003
MFG, Inc.

LABORATORY COMMENTS/CONDITION OF SAMPLES

Cooler Temp:

RELINQUISHED BY: SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	RECIEVED BY: SIGNATURE	PRINTED NAME	COMPANY
_____	Christopher Spill	MFG-SF	7/25/03	7/25/03 11:35	J. Matthews	J. Matthews	Alpha
Jack Matthews	Jack Matthews	Alpha	7/25/03	15:40	B. Speaks	S. Speaks	
							LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered

DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

APPENDIX E

Waste Disposal Documentation

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 0 4 7 4 0 3 6 9 6
Manifest Document No.: 1 7 6 1 5
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SIERRA PACIFIC INDUSTRIES - ARCATA
P.O. BOX 1189
ARCATA CA 95518
SITE : 2593 NEW NAVY BASE RD.
4. Generator's Phone (707 443-3111

A. State Manifest Document Number: 22817615
B. State Generator's ID

5. Transporter 1 Company Name: ASBURY ENVIRONMENTAL SERVICES
6. US EPA ID Number: C A D 0 2 8 2 7 7 0 3 6
C. State Transporter's ID [Reserved.]
D. Transporter's Phone (800)974-4495

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID [Reserved.]
F. Transporter's Phone

9. Designated Facility Name and Site Address
DEMENNO / KERDOON
2000 NORTH ALAMEDA STREET
COMPTON CA 90222
10. US EPA ID Number: C A T 0 8 0 0 1 3 3 5 2
G. State Facility's ID: CAT080013352
H. Facility's Phone (310)537-7100

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON RCRA HAZARDOUS WASTE LIQUID (WATER WITH TRACE PENTACHLOROPHENOL)	005	DM	00230	G	State 343 / EPA/Other NONE
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DeMENNO/KERDOON FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352.

J. Additional Descriptions for Materials Listed Above
11(A) 208828 5 X 55 G

K. Handling Codes for Wastes Listed Above
a. 01 b.
c. d.

15. Special Handling Instructions and Additional Information
USE PPE
EMERGENCY CONTACT :CHEMTREC 1-800-424-9300
NAERG #: 11A. 171
SITE: 2593 NEW NAVY BASE ROAD, ARCATA, CA 95518 Prof# 31215A15

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jay Chancey — Signature: [signature] — Month/Day/Year: 09/12/03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William Rohr — Signature: [signature] — Month/Day/Year: 09/12/03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Joselito Collado — Signature: [signature] — Month/Day/Year: 09/23/03

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
(Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

DTSC 8022A (1/99)
EPA 8700—22

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. CAD047403696	Manifest Document No. 0146	2. Page 1 of 1

3. Generator's Name and Mailing Address
SIERRA PACIFIC INDUSTRIES - ARCATA
P.O. BOX 1189 — 2593 NEW NAVY BASE ROAD
ARCATA CA 95518
4. Generator's Phone (707 443-3111

5. Transporter 1 Company Name: ASBURY ENVIRONMENTAL SERVICES	6. US EPA ID Number: CAD028277036	A. State Transporter's ID
		B. Transporter 1 Phone: 800 974-4495
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone
9. Designated Facility Name and Site Address: ALTAMONT LANDFILL, 10840 ALTAMONT PASS ROAD, LIVERMORE CA 94550	10. US EPA ID Number: CAD981382732	E. State Facility's ID
		F. Facility's Phone: 925 [illegible]

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON HAZARDOUS SOLID (SOIL WITH DIESEL, MOTOR OIL)	1	cm	19	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: 11A) [illegible]

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
USE PPE — EMERGENCY CONTACT : CHEMTREC 1-800-424-9300

Prof# 30958A15 PO# AC80021884

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month Day Year
[illegible]	[signature]	

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Glen Williams	[signature]	9 11 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name	Signature	Date Month Day Year
	Ken Brown	9 15 03

GENERATOR — TRANSPORTER — FACILITY