

**PLYWOOD COVERED DITCH
SOIL EXCAVATION REPORT**

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

March 30, 2004



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consulting
scientists and
engineers

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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.



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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 soil excavation and confirmation sampling activities in the vicinity of the former plywood covered ditch at SPI's Arcata Division Sawmill. The Arcata Division Sawmill is located at 2593 New Navy Base Road in Arcata, California (hereinafter "the Site"). The Site location is shown in Figure 1. A Site plan showing the location of the plywood covered ditch investigation area is presented in Figure 2. An enlargement of this portion of the Site, showing features of the plywood covered ditch investigation area, is presented in Figure 3.

This additional work was performed in accordance with the scope of work presented in MFG's *Plywood Covered Ditch Investigation Report*, dated June 9, 2003 (MFG, 2003). The scope of work consisted of the removal of soil in the vicinity of the plywood covered ditch that was impacted with petroleum hydrocarbons and the collection of confirmation samples. This work was conducted in conjunction with maintenance work being performed by SPI on an electrical conduit in the ditch. This report summarizes the methods and results of the implemented scope of work.

This report is organized as described below. The Site background is provided in Section 2.0. The Site geology and hydrogeology is described in Section 3.0. The plywood covered ditch excavation and sampling activities, including chemical analysis methods and results, are presented in Section 4.0. The disposal of investigation-derived waste is discussed in Section 5.0, and references cited in this report are listed in Section 6.0.

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 plywood covered ditch 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 Plywood Covered Ditch Area

The former plywood covered ditch is located in the southwestern portion of the property (Figure 2). The ditch was approximately 20 feet long. The ditch ran between the parts storage shed and an oil shed, immediately northwest of the Hyster Shop (Figure 3). The ditch was excavated to install an underground electrical conduit and was temporarily covered with plywood. After the electrical conduit was installed, the plywood was removed and the ditch was temporarily backfilled with native soil. In April 2003, MFG conducted soil sampling activities along the plywood covered ditch to satisfy the requirements of paragraph 18 of the Consent Decree between Ecological Rights Foundation and Sierra Pacific Industries, Inc. et al (case number C-01-0520-MEJ). Petroleum hydrocarbons and low levels of some volatile organic compounds (VOCs) were detected in soil samples collected from sampling locations PD-1 and PD-2 during the investigation (Figure 3) (MFG, 2003). As a result, the impacted soil in the vicinity of the plywood covered ditch was scheduled for removal in conjunction with maintenance work related to the recently installed electrical conduit.

The source of petroleum hydrocarbons detected in the vicinity of the former plywood covered ditch is not known. However, according to SPI personnel, a 500-gallon kerosene above ground storage tank (AST) was previously located adjacent to the parts storage shed, just northeast of the plywood covered ditch location (Figure 3). The former kerosene AST was reported to have been present from

approximately 1980 to 2001. The AST supplied kerosene to the steam cleaner by way of above ground piping. The AST and associated piping was removed in 2001 and replaced with the kerosene AST located in the kerosene oil shed (Figure 3). Given its location and long period of use, this former kerosene AST and associated piping may have been a source of petroleum hydrocarbons.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

The subsurface lithology and hydrogeology in the central and eastern portions of 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 lithology and hydrogeology in the vicinity of the former plywood covered ditch was investigated by MFG and Geomatrix and are described in the *Former Waste Oil Underground Storage Tank Additional Investigation Report*, dated March 30, 2004 (MFG and Geomatrix, 2004). The subsurface lithology observed in eight borings generally consisted of sand with varying amounts of clay, silt and gravel to depths ranging from 6.0 to 7.5 feet bgl, except in one boring where the sand extended to a depth of approximately 10 feet bgl. Peat was observed beneath the sand in four borings at depths ranging from approximately 7.0 to 8.5 feet bgl and had an approximate thickness of 0.8 to 1.0 foot. The peat in the four borings and the sand in two borings were underlain by silt to a depth of approximately 10 feet bgl, the maximum depth explored during the investigation.

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).

The occurrence of groundwater in the vicinity of the former plywood covered ditch was investigated by MFG and Geomatrix and is described in the *Former Waste Oil Underground Storage Tank Additional Investigation Report*, dated March 30, 2004 (MFG and Geomatrix, 2004). During the investigation, the depth to groundwater was measured in eight temporary wells on July 24, 2003 at depths ranging from approximately 3.5 to 5.2 feet bgl. The interpreted groundwater flow direction was to the south-southeast, toward Humboldt Bay.

4.0 SOIL EXCAVATION AND CONFIRMATION SAMPLING

4.1 Soil Excavation Field Methods

On July 30, 2003, soil impacted with petroleum hydrocarbons in the former plywood covered ditch containing the electrical conduit was excavated by SPI personnel. Due to the presence of nearby underground structures and utilities, soil was removed using hand tools. The excavation was completed to depths ranging from approximately 1.5 to 3.5 feet below ground level (bgl) and had a width of approximately four feet (two feet on either side of the electrical conduit), as shown in Figure 3. The resulting excavation was observed by MFG on July 30, 2003. Additional soil excavation on either side of the electrical conduit was not feasible due to the presence of a concrete slab to the southwest and the steam cleaner wastewater process sumps to the northeast (Figure 3). The depth of the excavation was limited by the compacted fill material present at a depth of approximately 3.5 feet bgl, which consisted of a mixture of gravel and silty sand with clay. Soil stained with petroleum hydrocarbon was observed along the southeastern sidewall of the excavation, near the parts storage shed. MFG recommended that additional excavation take place to remove the stained soil in the area to the extent feasible considering the proximity of structural foundations and surrounding utilities.

On July 31, 2003, MFG returned to the Site to collect confirmation soil samples. However, standing water with a petroleum sheen was observed in the southeastern portion of the excavation. It was determined that the standing water in the excavation was not groundwater, but water that had leaked from a crack in an underground water pipe located along the northwestern wall of the parts storage shed. The underground pipe was repaired by SPI and a sample of the standing water in the excavation was collected by MFG. The methods and results of the water sampling activities are presented in Section 4.3. Following water sampling, the standing water was pumped into a single, steel, 55-gallon, Department of Transportation (DOT)-approved drum that was sealed, labeled and temporarily stored at the Site pending disposal (Section 5.0). After repairing the pipe and removing the standing water, no additional water was observed in the excavation. While uncovering the water pipe, additional excavation was conducted on August 1, 2003 to a depth of approximately 2.0 feet bgl along the northwestern wall of the parts storage shed to remove soil impacted with petroleum hydrocarbons. At the conclusion of the excavation activities on August 1, 2003, the total volume of soil removed was approximately 19 cubic yards.

On July 31 and August 1, 2003, MFG documented the final dimensions of the excavation and collected confirmation soil samples. On August 6, 2003, MFG collected two additional confirmation soil samples from the floor of the excavation. The methods and results of the confirmation soil sampling activities are presented in Section 4.4. Note that the soil surrounding sampling locations PD-1 (0-.5), PD-1 (2-2.5) and PD-2 (0-.5) collected in April 2003 and the soil surrounding sampling location PD-NE2-1.5' collected during this investigation was subsequently excavated during soil removal activities.

Soil generated during excavation activities was placed in a 20-yard storage bin that was sealed, labeled and temporarily stored in a secure location of the Site pending disposal (Section 5.0). Equipment wash water was placed in a separate, steel, 55-gallon, DOT-approved drum that was sealed, labeled and temporarily stored in a secure location of the Site pending disposal (Section 5.0).

At the conclusion of the sampling activities (Sections 4.3 and 4.4), the excavation was backfilled with native sand by SPI.

4.2 Stratigraphy and Field Observations

The material encountered during sampling activities consisted of concrete debris, gravel and medium-grained sand from the ground surface to a depth of approximately 2.0 feet bgl. Silty sand with clay was encountered from depths ranging from approximately 2.0 to 3.5 feet bgl. Subangular gravel was encountered in the silty sand with clay below approximately 3.5 feet bgl. Following completion of the excavation activities, stained soil and moderate to strong petroleum-like odors were noted along the southeastern sidewall of the excavation near the parts storage shed. Slight to moderate petroleum-like odors were noted along the remaining sidewalls and the floor of the excavation. Saturated soil and groundwater were not encountered during excavation activities.

4.3 Water Sampling

4.3.1 Field Methods

On July 31, 2003, a sample of the water that had entered the excavation from a leaking pipe was collected using a peristaltic pump and polyethylene tubing. The water sample was placed into the following containers supplied by the laboratory: five 40-milliliter (mL) glass vials containing hydrochloric acid for sample preservation and sealed with screw caps with Teflon[®]-lined septa; and two 1-liter (L) amber glass bottles sealed with Teflon[®]-lined screw caps. The sample containers were labeled and immediately placed in an ice-cooled, insulated chest for transport to the laboratory. A chain-of-custody record was completed for the sample and accompanied the sample until receipt by the laboratory. A copy of the chain-of-custody record is included in Appendix A.

All equipment used to collect the water sample was dedicated; therefore, no wash water was generated for disposal.

4.3.2 Chemical Analysis Methods

The sample of water that had entered the excavation from the leaking pipe was submitted for chemical analysis to Alpha Analytical Laboratories Inc. (Alpha) of Ukiah, California. The sample was analyzed for the following constituents:

- Oil and grease using EPA Method 1664A with silica gel cleanup;
- 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; and
- Volatile organic compounds (VOCs) using EPA Method 8260B.

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

4.3.3 Chemical Analysis Results

Oil and grease was detected in the water sample at a concentration of 9,100 micrograms per liter ($\mu\text{g/L}$). TEPH as diesel was detected in the sample at a concentration of 10,000 $\mu\text{g/L}$. However, the laboratory indicated that approximately 7/8 of the diesel range detection was due to the presence of kerosene. TEPH as motor oil was detected in the water sample at a concentration of 8,900 $\mu\text{g/L}$. TPPH as gasoline was detected in the water sample at a concentration of 1,100 $\mu\text{g/L}$ (Table 1).

The following VOCs were detected in the water sample: ethylbenzene at a concentration of 9.4 $\mu\text{g/L}$, naphthalene at a concentration of 13 $\mu\text{g/L}$; n-propylbenzene at a concentration of 4.4 $\mu\text{g/L}$; 1,2,4-trimethylbenzene at a concentration of 44 $\mu\text{g/L}$; 1,3,5-trimethylbenzene at a concentration of 11 $\mu\text{g/L}$; and total xylenes at a concentration of 79 $\mu\text{g/L}$ (Table 1). No other VOCs were detected at or above their respective laboratory reporting limits (Table 1).

It is important to note that the water in the excavation was apparently not groundwater. It was water that had entered the excavation from a nearby leaking pipe. Consequently, these data are not representative of groundwater conditions.

4.4 Confirmation Soil Sampling

4.4.1 Field Methods

On July 31, August 1 and August 6, 2003, confirmation soil samples were collected from the excavation by MFG. Five confirmation soil samples were collected from the sidewalls of the excavation: one from the northwestern sidewall at a depth of approximately 3.0 feet bgl (PD-NW-3'); one from the southwestern sidewall at a depth of approximately 2.5 feet bgl (PD-SW-2.5'); and three from the northeastern sidewalls at depths of approximately 2.5 feet bgl (PD-NE-2.5'), 1.5 feet bgl (PD-NE2-1.5') and 2.0 feet bgl (PD-NE3-2'). Three additional confirmation soil samples were collected from the bottom of the excavation at depths of approximately 3.5 feet bgl (PD-NW1-Bottom and PD-NW2-Bottom) and 2.0 feet bgl (PD-SE-Bottom). The soil surrounding sampling location PD-NE2-1.5' was subsequently excavated during soil removal activities on August 1, 2003 (Section 4.1).

The soil samples were collected in clean, 6-inch long, brass liners inserted into a stainless steel drive sampler that was manually driven into the soil at each location using a slide hammer. Prior to sample collection, approximately three inches of soil was removed from the soil surface at each location; the brass liner was then driven into the newly exposed soil. Following sample collection, the ends of each liner were covered with Teflon[®] sheets, capped with polyethylene lids, and then sealed using duct tape. Additional soil was collected from each sampling location using EnCore[™] samplers that were manually driven into the newly exposed soil. The sample containers were labeled, placed into individual Ziplock[®] bags, and immediately placed in an ice-cooled, insulated chest for transport to the laboratory. Chain-of-custody records were completed for the samples collected on each day and accompanied the samples until receipt by the laboratory. Copies of the chain-of-custody records are included in Appendix B.

Reusable sampling equipment was decontaminated before and after use at each sampling location by washing it in a solution of Liquinox[®] detergent and water and triple rinsing with distilled water.

Equipment wash water generated during soil sampling activities was placed in the steel, 55-gallon, DOT-approved drum that was used to contain equipment wash water generated from cleaning the hand tools used during excavation activities (Section 4.1). The drum was sealed, labeled and temporarily stored next in a secure location at the Site pending disposal (Section 5.0).

4.4.2 Chemical Analysis Methods

The eight confirmation soil samples were submitted for chemical analysis to Alpha Analytical Laboratories Inc. (Alpha) of Ukiah, California. The samples were analyzed for the following constituents:

- Oil and grease using EPA Method 9071B with silica gel cleanup;
- 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; and
- Volatile organic compounds (VOCs) using EPA Method 8260B/5035.

The chemical analysis results are summarized in Tables 2 and 3. Copies of the laboratory reports and chain-of-custody records are included in Appendix B.

At the request of MFG, Alpha sent a portion of soil sample PD-NE2-1.5' to Zymax Envirotechnology, Inc. (Zymax) of San Luis Obispo, California. Zymax analyzed the soil sample for the following constituents:

- Oil and grease using a modified version of EPA Method 1664A with silica gel cleanup; and
- Total extractable petroleum hydrocarbons (TEPH) as kerosene and diesel using gas chromatogram/mass spectrometer combination with and without silica gel cleanup.

The chemical analysis results are summarized in Table 2. Copies of the laboratory report and chain-of-custody record are included in Appendix C.

4.4.3 Chemical Analysis Results

Oil and grease was detected in the eight soil samples at concentrations ranging from 5,100 to 25,000 milligrams per kilogram (mg/kg). TEPH as diesel was detected in the eight soil samples at concentrations ranging from 220 to 10,000 mg/kg. However, the laboratory indicated that the diesel range organics detected in the samples consisted of varying amounts of kerosene. In addition, the laboratory indicated that the diesel range organics detected in soil sample PD-NW1-Bottom were primarily due to overlap from a heavy oil range product. TEPH as motor oil was detected in the eight soil samples at concentrations ranging from 2,500 to 9,700 mg/kg. TPPH as gasoline was detected in the eight soil samples at concentrations ranging from 38 to 7,000 mg/kg. However, the laboratory indicated that the gasoline range organics detected in seven of the eight samples were primarily due to overlap from a diesel range product.

VOCs were detected in two of the five confirmation soil samples from the excavation sidewalls and the three confirmation soil samples from the floor of the excavation. The following VOCs were detected in the soil sample (concentrations in parentheses): 1,4-dichlorobenzene (1.1 mg/kg) in soil sample PD-NW-3'; n-butylbenzene (21 mg/kg), sec-butylbenzene (9.0 mg/kg), ethylbenzene (9.2 mg/kg), isopropylbenzene (5.1 mg/kg), p-isopropyltoluene (13 mg/kg), naphthalene (14 mg/kg), n-propylbenzene (13 mg/kg), 1,2,4-trimethylbenzene (100 mg/kg), 1,3,5-trimethylbenzene (22 mg/kg) and total xylenes (14

mg/kg) in soil sample PD-NE3-2'; n-butylbenzene (8.8 mg/kg), 1,2,4-trimethylbenzene (49 mg/kg), 1,3,5-trimethylbenzene (14 mg/kg) and total xylenes (29 mg/kg) in soil sample PD-SE-Bottom; 2-chlorotoluene (0.19 mg/kg), toluene (0.23 mg/kg), 1,2,4-trimethylbenzene (0.34 mg/kg), 1,3,5-trimethylbenzene (0.23 mg/kg) in soil sample PD-NW1-Bottom; and n-butylbenzene (0.81 mg/kg), sec-butylbenzene (0.50 mg/kg), chlorobenzene (0.87 mg/kg), 2-chlorotoluene (0.28 mg/kg), 4-chlorotoluene (0.32 mg/kg), 1,2-dichlorobenzene (0.58 mg/kg), 1,3-dichlorobenzene (0.20 mg/kg), 1,4-dichlorobenzene (1.2 mg/kg), isopropylbenzene (0.21 mg/kg), p-isopropyltoluene (0.23 mg/kg), naphthalene (1.7 mg/kg), n-propylbenzene (0.37 mg/kg), 1,2,4-trimethylbenzene (1.9 mg/kg) and total xylenes (0.27 mg/kg) in soil sample PD-NW2-Bottom. No other VOCs were detected at or above their respective laboratory reporting limits (Table 3).

The additional analyses performed by Zymax on a portion of soil sample PD-NE2-1.5' detected oil and grease (with silica gel cleanup) at a concentration of 13,000 mg/kg, TEPH as kerosene at concentrations of 5,800 mg/kg (without silica gel cleanup) and 4,100 mg/kg (with silica gel cleanup), and TEPH as motor oil at concentrations of 12,000 mg/kg (without silica gel cleanup) and 8,400 mg/kg (with silica gel cleanup) (Table 2). The silica gel cleanup procedure is intended to remove polar organic constituents that could interfere with the quantitation of petroleum hydrocarbons. However, a common limitation associated with silica gel cleanup is the potential for incomplete cleanup due to the volume of silica gel used.

5.0 DISPOSAL OF INVESTIGATION-DERIVED WASTE

Equipment wash water and water removed from the excavation (water from leaking pipe) were placed in two, separate, steel, 55-gallon, DOT-approved drums that were sealed, labeled and temporarily stored at a secure location of the Site. The drum containing water removed from the excavation was removed from the Site as part of a bulk shipment on August 15, 2003 by Asbury Environmental Services and transported to Demenno/Kerdoon in Compton, California for treatment. A copy of the Uniform Hazardous Waste Manifest for this shipment, which also included petroleum-containing waste water associated with plant operations, is included in Appendix D. The drum containing equipment wash water was removed from the Site on September 12, 2003 by Asbury Environmental Services and also transported to Demenno/Kerdoon in Compton, California for treatment. 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 D. Following treatment, the water was discharged to the Los Angeles Sanitation District sewer system.

The storage bin containing soil from the excavation 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 D.

6.0 REFERENCES

- Environet Consulting (Environet), 2003, *Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California*: January 30.
- MFG, Inc., 2003, *Plywood Covered Ditch Investigation Report, Sierra Pacific Industries, Arcata Division Sawmill, 2593 New Navy Base Road, Arcata California*: June 9.
- MFG, Inc. and Geomatrix Consultants, Inc (Geomatrix), 2004, *Former Waste Oil Underground Storage Tank Additional Investigation Report, Sierra Pacific Industries, Arcata Division Sawmill, 2593 New Navy Base Road, Arcata California*: March 30.

TABLES

TABLE 1

**SUMMARY OF CHEMICAL ANALYSES OF THE SAMPLE OF WATER
THAT ENTERED THE EXCAVATION FROM LEAKING PIPE¹**

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

SAMPLE ID	SAMPLE DATE	OIL AND GREASE (µg/L)	TEPH AS DIESEL (µg/L)	TEPH AS MOTOR OIL (µg/L)	TPPH AS GASOLINE (µg/L)	VOLATILE ORGANIC COMPOUNDS						
						ETHYL-BENZENE (µg/L)	NAPHTHA-LENE (µg/L)	n-PROPYL-BENZENE (µg/L)	1,2,4-TRIMETHYL-BENZENE (µg/L)	1,3,5-TRIMETHYL-BENZENE (µg/L)	TOTAL XYLENES (µg/L)	OTHER VOCs (µg/L)
PD-Water	31-Jul-03	9,100	10,000 ²	8,900	1,100	9.4	13	4.4	44	11	79	<1.5-25

NOTES:

- TEPH Total extractable petroleum hydrocarbons. Analyzed using modified EPA Method 8015M with silica gel cleanup and quantified against diesel and motor oil standards.
- TPPH Total purgeable petroleum hydrocarbons. Analyzed using modified EPA Method 8015M and quantified against a gasoline standard.
- VOCs Volatile organic compounds. Analyzed using EPA Method 8260B.
- µg/L Micrograms per liter.
- < Target analyte was not detected at or above the laboratory reporting limit shown.
- The water in the excavation was apparently not groundwater. It was water that had entered the excavation from a nearby leaking pipe. Consequently, these data are not representative of groundwater conditions.
 - Laboratory indicated that kerosene is present at about 7/8 of the diesel response and is included therein.
- Oil and grease was analyzed using EPA Method 1664A with silica gel cleanup.

TABLE 2

SUMMARY OF CHEMICAL ANALYSES OF CONFIRMATION SOIL SAMPLES FROM THE EXCAVATION
FOR TPPH, TEPH AND OIL AND GREASE ¹

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

SAMPLE ID	SAMPLE DEPTH (feet bgl)	SAMPLE DATE	LITHOLOGY	TPPH AS GASOLINE (mg/kg)	TEPH AS DIESEL w/ Silica Gel (mg/kg)	TEPH AS KEROSENE w/o Silica Gel (mg/kg)	TEPH AS KEROSENE w/ Silica Gel (mg/kg)	TEPH AS MOTOR OIL w/o Silica Gel (mg/kg)	TEPH AS MOTOR OIL w/ Silica Gel (mg/kg)	OIL AND GREASE w/ Silica Gel (mg/kg)
PD-1(0-.5)	0.0-0.5	8-Apr-03	SAND	--	17 ²	--	--	--	160	1,200
PD-1(2-2.5)	2.0-2.5	8-Apr-03	SILTY SAND W/ CLAY	--	330	--	--	--	1,300	7,800
PD-2(0-.5)	0.0-0.5	8-Apr-03	SAND	--	20 ²	--	--	--	250	1,100
PD-2(2-2.5)	2.0-2.5	8-Apr-03	SILTY SAND W/ CLAY	--	140	--	--	--	850	8,200
PD-NW-3'	3.0	31-Jul-03	SILTY SAND W/ CLAY	140 ³	1,400 ⁴	--	--	--	9,700	20,000
PD-NE-2.5'	2.5	31-Jul-03	SILTY SAND W/ CLAY	480 ³	3,100 ⁵	--	--	--	8,800	11,000
PD-NE2-1.5'	1.5	31-Jul-03	SAND	2,700 ³	5,500 ⁶	5,800 ⁷	4,100 ⁷	12,000 ⁷	7,000 / 8,400 ⁷	25,000 / 13,000 ⁸
PD-SW-2.5'	2.5	31-Jul-03	SILTY SAND W/ CLAY	120 ³	610 ⁴	--	--	--	2,500	6,000
PD-NE3-2'	2.0	01-Aug-03	SILTY SAND W/ CLAY	7,000 ³	10,000 ⁹	--	--	--	5,300	9,300
PD-SE-Bottom	2.0	01-Aug-03	SILTY SAND W/ CLAY	3,700 ³	4,100 ¹⁰	--	--	--	3,700	18,000
PD-NW1-Bottom	3.5	06-Aug-03	SILTY SAND W/ CLAY	38	220 ^{11,12}	--	--	--	2,700	5,200
PD-NW2-Bottom	3.5	06-Aug-03	SILTY SAND W/ CLAY	610 ³	1,700 ¹³	--	--	--	3,900	5,100

NOTES:

- TPPH Total purgeable petroleum hydrocarbons. Analyzed using modified EPA Method 8015M and quantified against a gasoline standard.
- TEPH Total extractable petroleum hydrocarbons. Analyzed using modified EPA Method 8015M with silica gel cleanup and quantified against diesel and motor oil standards unless otherwise noted.
- bgl Below ground level.
- mg/kg Milligrams per kilogram.
- Shaded entries represent soil subsequently excavated.
- Not analyzed.
- 1 All samples were analyzed by Alpha Analytical Laboratories Inc. (Alpha) of Ukiah, California unless otherwise noted.
- 2 Laboratory indicated that the result is primarily due to overlap from a heavier oil range compound.
- 3 Laboratory indicated that the result is primarily due to overlap from a diesel range product.
- 4 Laboratory indicated that kerosene is present at about 1/10 of the diesel response and is included therein.
- 5 Laboratory indicated that kerosene is present at about 1/6 of the diesel response and is included therein.
- 6 Laboratory indicated that kerosene is present at about 3/4 of the diesel response and is included therein.
- 7 Analyzed by Zymax Envirotechnology, Inc. (Zymax) of San Luis Obispo, California using gas chromatograph/mass spectrometer (GC/MS) combination and quantified against kerosene and motor oil standards.
- 8 Analyzed by Zymax using a modified version of EPA Method 1664A with silica gel cleanup.
- 9 Laboratory indicated that kerosene is present at about 11/13 of the diesel response and is included therein.
- 10 Laboratory indicated that the diesel response is primarily due to kerosene.
- 11 Laboratory indicated that the result is primarily due to overlap from a heavy oil range product.
- 12 Laboratory indicated that kerosene may be present at about 1/20 or less of the diesel response, which itself is due to overlap of motor oil.
- 13 Laboratory indicated that kerosene is present at about 2/15 of the diesel response and is included therein.

Oil and grease was analyzed by Alpha using EPA Method 9071B with silica gel cleanup.

TABLE 3

SUMMARY OF CHEMICAL ANALYSES OF CONFIRMATION SOIL SAMPLES FROM THE EXCAVATION FOR VOLATILE ORGANIC COMPOUNDS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

SAMPLE ID	SAMPLE DEPTH (feet bgl)	SAMPLE DATE	LITHOLOGY	n-BUTYL- BENZENE (mg/kg)	sec-BUTYL- BENZENE (mg/kg)	CHLORO- BENZENE (mg/kg)	2-CHLORO- TOLUENE (mg/kg)	4-CHLORO- TOLUENE (mg/kg)	1,2-DI- CHLORO- BENZENE (mg/kg)	1,3-DI- CHLORO- BENZENE (mg/kg)	1,4-DI- CHLORO- BENZENE (mg/kg)	ETHYL- BENZENE (mg/kg)	ISO- PROPYL- BENZENE (mg/kg)	p-ISO- PROPYL- TOLUENE (mg/kg)	NAPHTHA- LENE (mg/kg)	n-PROPYL- BENZENE (mg/kg)	TOLUENE (mg/kg)	1,2,4-TRI- METHYL- BENZENE (mg/kg)	1,3,5-TRI- METHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	OTHER VOCs (mg/kg)
PD-1(0-5)	0.0-0.5	8-Apr-03	SAND	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050-0.020
PD-1(2-2.5)	2.0-2.5	8-Apr-03	SILTY SAND W/ CLAY	<0.22	<0.22	0.49	<0.22	<0.22	<0.22	<0.22	0.39	<0.22	<0.22	<0.22	0.24	<0.22	<0.22	0.33	<0.22	<0.22	<0.22-0.87
PD-2(0-0.5)	0.0-0.5	8-Apr-03	SAND	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050-0.020
PD-2(2-2.5)	2.0-2.5	8-Apr-03	SILTY SAND W/ CLAY	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	0.35	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22-0.87
PD-NW-3'	3.0	31-Jul-03	SILTY SAND W/ CLAY	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	1.1	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87-3.5
PD-NE-2.5'	2.5	31-Jul-03	SILTY SAND W/ CLAY	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87-3.5
PD-NE2-1.5'	1.5	31-Jul-03	SAND	<43	<43	<43	<43	<43	<43	<43	<43	<43	<43	<43	<43	<43	<43	<43	<43	<43	<43-170
PD-SW-2.5'	2.5	31-Jul-03	SILTY SAND W/ CLAY	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87-3.5
PD-NE3-2'	2.0	01-Aug-03	SILTY SAND W/ CLAY	21	9.0	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	9.2	5.1	13	14	13	<4.3	100	22	14	<4.3-17
PD-SE-Bottom	2.0	01-Aug-03	SILTY SAND W/ CLAY	8.8	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	49	14	29	<8.7-35
PD-NW1-Bottom	3.5	06-Aug-03	SILTY SAND W/ CLAY	<0.17	<0.17	<0.17	0.19	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.23	0.34	0.23	<0.17	<0.17-0.69
PD-NW2-Bottom	3.5	06-Aug-03	SILTY SAND W/ CLAY	0.81	0.50	0.87	0.28	0.32	0.58	0.20	1.2	<0.17	0.21	0.23	1.7	0.37	<0.17	1.9	<0.17	0.27	<0.17-0.69

NOTES:

VOCs Volatile organic compounds. Analyzed using EPA Method 8260B in April 2003 and EPA Method 8260B/5035 in July and August 2003.

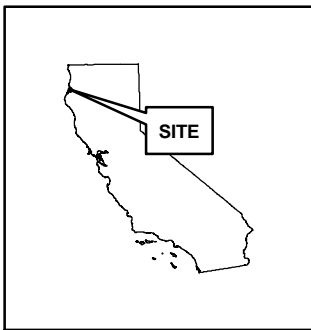
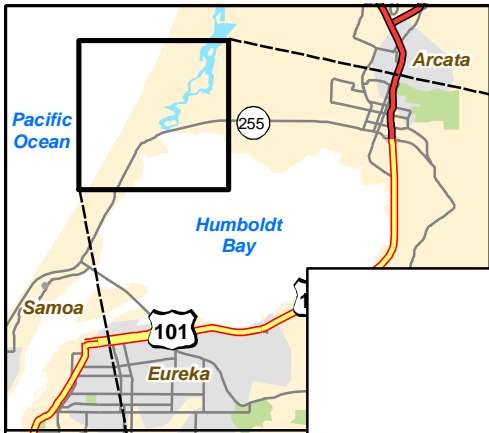
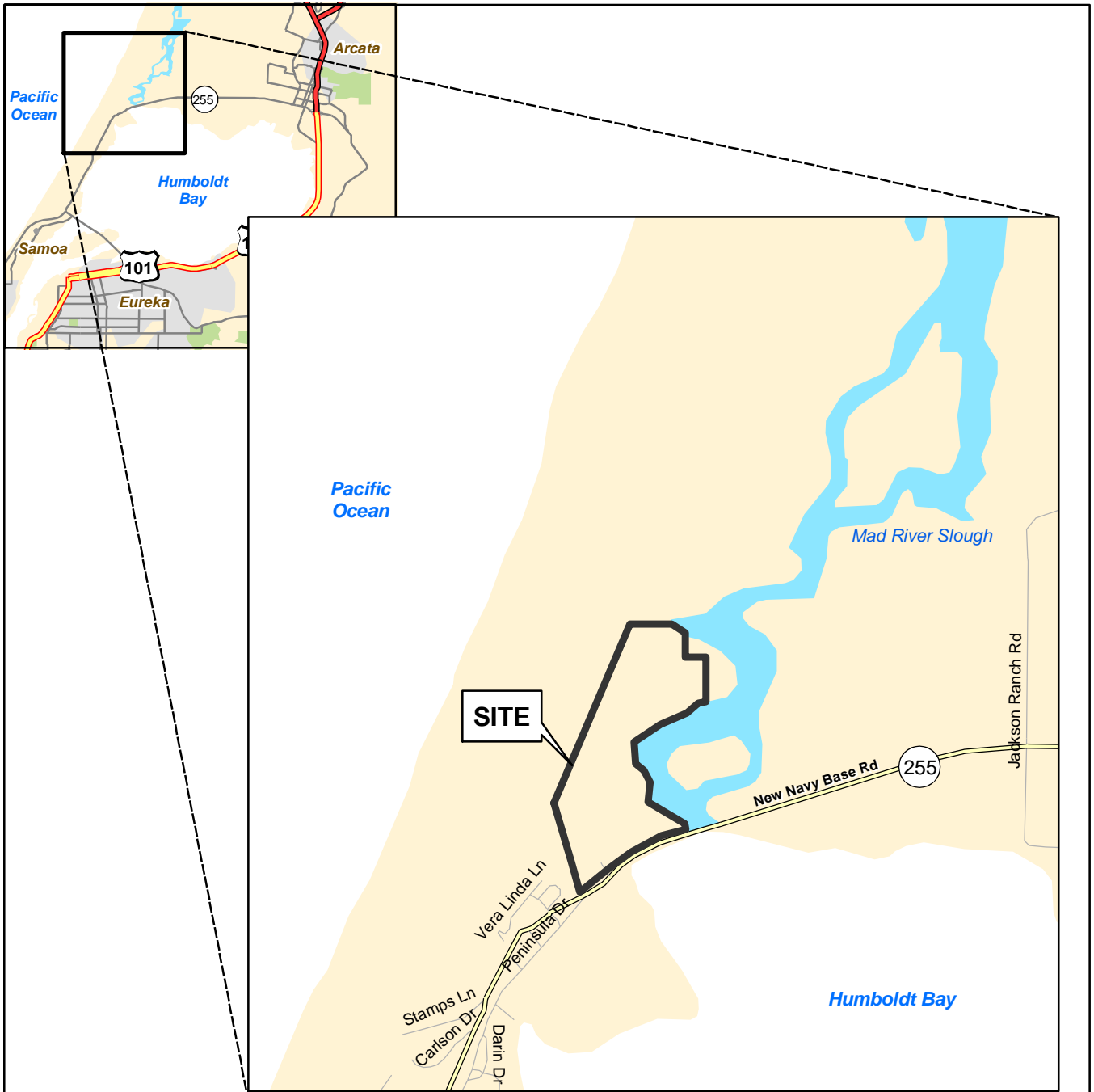
bgl Below ground level.

mg/kg Milligrams per kilogram.

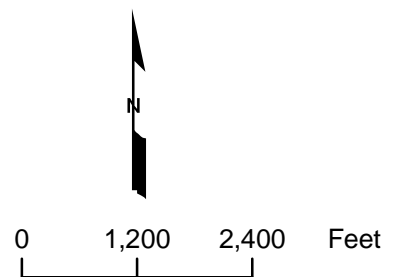
< Target analyte was not detected at or above the laboratory reporting limit shown.

Shaded entries represent soil subsequently excavated.

FIGURES



California



S:\9300\9329\task_02\04_0119_4q03_fig_01.mxd



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

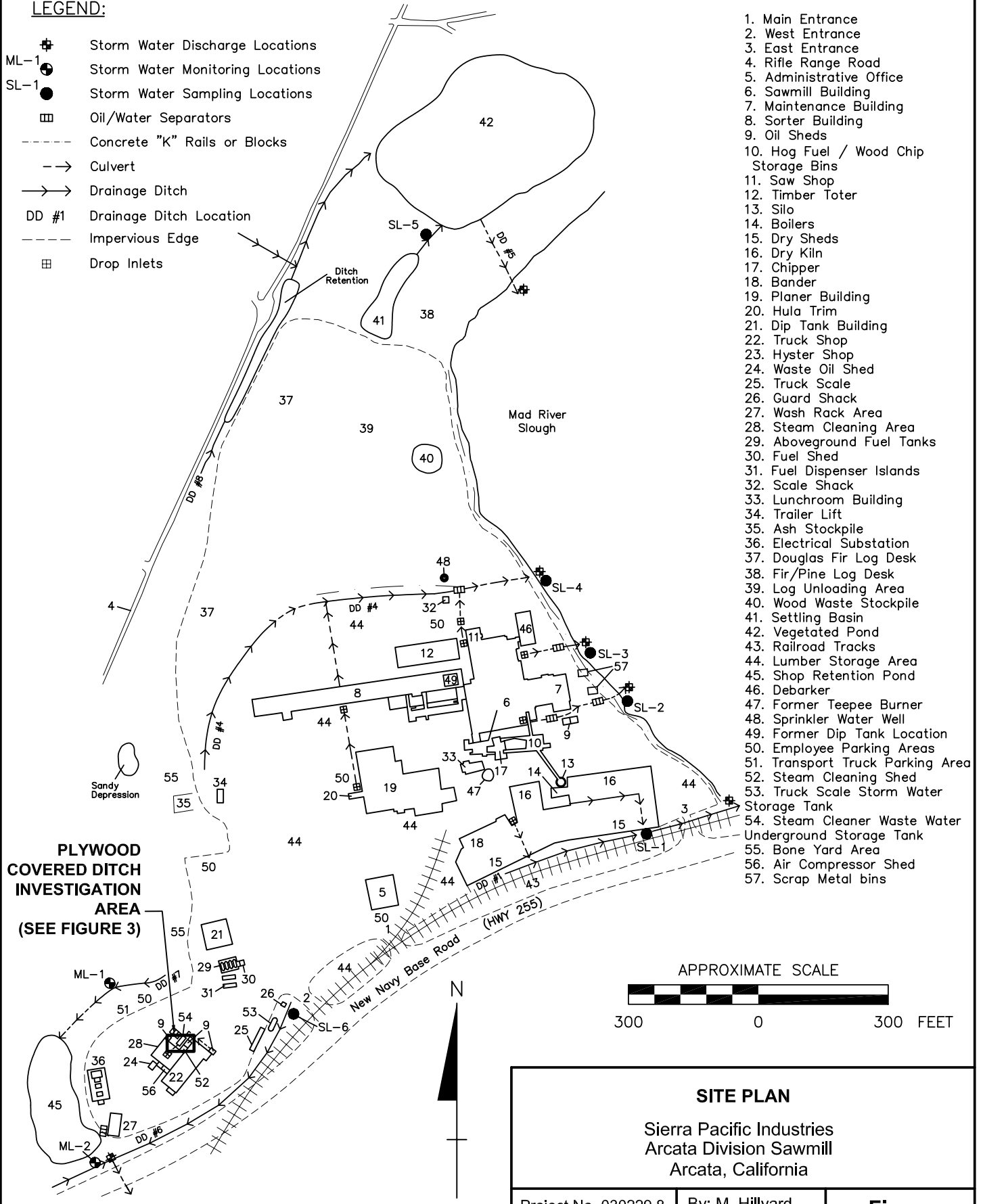
Project No.
9329

Figure No.
1

LEGEND:

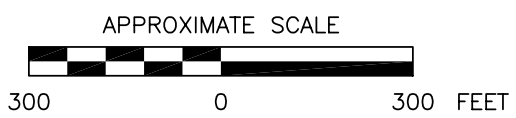
- ⊕ Storm Water Discharge Locations
- ML-1 ● Storm Water Monitoring Locations
- SL-1 ● Storm Water Sampling Locations
- ▣ Oil/Water Separators
- Concrete "K" Rails or Blocks
- > Culvert
- Drainage Ditch
- DD #1 Drainage Ditch Location
- Impervious Edge
- ⊞ Drop Inlets

1. Main Entrance
2. West Entrance
3. East Entrance
4. Rifle Range Road
5. Administrative Office
6. Sawmill Building
7. Maintenance Building
8. Sorter Building
9. Oil Sheds
10. Hog Fuel / Wood Chip Storage Bins
11. Saw Shop
12. Timber Toter
13. Silo
14. Boilers
15. Dry Sheds
16. Dry Kiln
17. Chipper
18. Bander
19. Planer Building
20. Hula Trim
21. Dip Tank Building
22. Truck Shop
23. Hyster Shop
24. Waste Oil Shed
25. Truck Scale
26. Guard Shack
27. Wash Rack Area
28. Steam Cleaning Area
29. Aboveground Fuel Tanks
30. Fuel Shed
31. Fuel Dispenser Islands
32. Scale Shack
33. Lunchroom Building
34. Trailer Lift
35. Ash Stockpile
36. Electrical Substation
37. Douglas Fir Log Desk
38. Fir/Pine Log Desk
39. Log Unloading Area
40. Wood Waste Stockpile
41. Settling Basin
42. Vegetated Pond
43. Railroad Tracks
44. Lumber Storage Area
45. Shop Retention Pond
46. Debarker
47. Former Teepee Burner
48. Sprinkler Water Well
49. Former Dip Tank Location
50. Employee Parking Areas
51. Transport Truck Parking Area
52. Steam Cleaning Shed
53. Truck Scale Storm Water Storage Tank
54. Steam Cleaner Waste Water Underground Storage Tank
55. Bone Yard Area
56. Air Compressor Shed
57. Scrap Metal bins

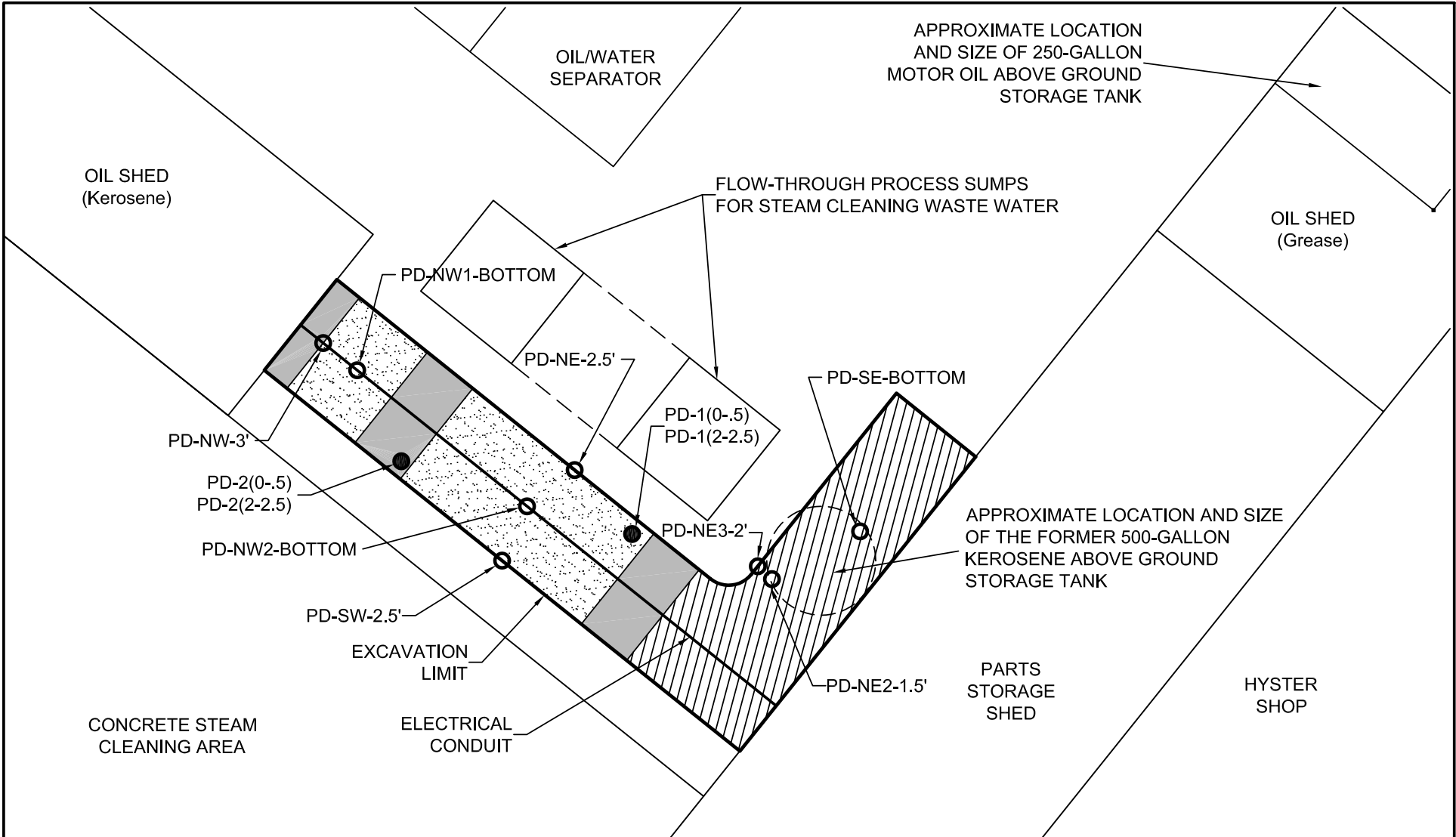


PLYWOOD COVERED DITCH INVESTIGATION AREA (SEE FIGURE 3)

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.






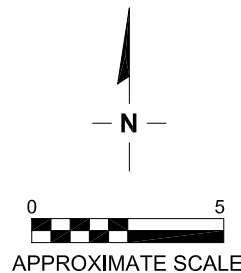
SITE PLAN		
Sierra Pacific Industries Arcata Division Sawmill Arcata, California		
Project No. 030229.8	By: M. Hillyard	Figure 2
Date: Nov. 4, 2003	Checked: CGS	
MFG, Inc. consulting scientists and engineers		



LEGEND

- PD-NW-3' APPROXIMATE LOCATION AND DESIGNATION OF SOIL SAMPLE COLLECTED FROM JULY 31 TO AUGUST 6, 2003
- PD-1(0-5) APPROXIMATE LOCATION AND DESIGNATION OF SOIL SAMPLE COLLECTED ON APRIL 8, 2003

-  EXCAVATION TO 1.5' BELOW GROUND LEVEL
-  EXCAVATION TO 2.0' BELOW GROUND LEVEL
-  EXCAVATION TO 3.5' BELOW GROUND LEVEL



PLYWOOD COVERED DITCH EXCAVATION AREA AND SAMPLE LOCATIONS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229.8	By: M. Hillyard
Date: Mar. 9, 2004	Checked: CGS

Figure 3

MFG, Inc.
consulting scientists and engineers

APPENDIX A

**Laboratory Report and Chain-of-Custody Record
for the Sample of Water that Entered the Excavation from Leaking Pipe**



alpha

Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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

18 August 2003

MFG, Inc - Arcata

Attn: Ed Conti

875 Crescent Way

Arcata, CA 95521

RE: SPI Arcata Sawmill

Work Order: A308008

Enclosed are the results of analyses for samples received by the laboratory on 08/01/03 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cheryl Watson For Karen A. Daly
Project Manager

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AUG 21 2003

Tetra Tech/MFG, Inc.



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

Page 1 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PD - Water	A308008-01	Water	07/31/03 11:25	08/01/03 14:20

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.

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Tetra Tech/MFG Inc

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

Order Number: A308008 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD - Water (A308008-01)		Sample Type: Water			Sampled: 07/31/03 11:25		
Volatile Organic Compounds by EPA Method 8260B							R-06
Acetone	8260B	AH31121	08/10/03	08/11/03	5	ND ug/l	25
Benzene	"	"	"	"	"	ND "	1.5
Bromobenzene	"	"	"	"	"	ND "	2.5
Bromochloromethane	"	"	"	"	"	ND "	2.5
Bromodichloromethane	"	"	"	"	"	ND "	2.5
Bromoform	"	"	"	"	"	ND "	2.5
Bromomethane	"	"	"	"	"	ND "	2.5
n-Butylbenzene	"	"	"	"	"	ND "	2.5
sec-Butylbenzene	"	"	"	"	"	ND "	2.5
tert-Butylbenzene	"	"	"	"	"	ND "	2.5
Carbon tetrachloride	"	"	"	"	"	ND "	2.5
Chlorobenzene	"	"	"	"	"	ND "	2.5
Chloroethane	"	"	"	"	"	ND "	2.5
Chloroform	"	"	"	"	"	ND "	2.5
Chloromethane	"	"	"	"	"	ND "	2.5
2-Chlorotoluene	"	"	"	"	"	ND "	2.5
4-Chlorotoluene	"	"	"	"	"	ND "	2.5
Dibromochloromethane	"	"	"	"	"	ND "	2.5
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	2.5
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	2.5
Dibromomethane	"	"	"	"	"	ND "	2.5
1,2-Dichlorobenzene	"	"	"	"	"	ND "	2.5
1,3-Dichlorobenzene	"	"	"	"	"	ND "	2.5
1,4-Dichlorobenzene	"	"	"	"	"	ND "	2.5
Dichlorodifluoromethane	"	"	"	"	"	ND "	2.5
1,1-Dichloroethane	"	"	"	"	"	ND "	2.5
1,2-Dichloroethane	"	"	"	"	"	ND "	2.5
1,1-Dichloroethene	"	"	"	"	"	ND "	1.5
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	2.5
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	2.5
1,2-Dichloropropane	"	"	"	"	"	ND "	2.5

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Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 3 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD - Water (A308008-01)		Sample Type: Water		Sampled: 07/31/03 11:25			
Volatile Organic Compounds by EPA Method 8260B (cont'd)							R-06
1,3-Dichloropropane	8260B	"	"	08/11/03	"	ND "	2.5
2,2-Dichloropropane	"	"	"	"	"	ND "	2.5
1,1-Dichloropropene	"	"	"	"	"	ND "	2.5
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	2.5
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	2.5
Ethylbenzene	"	"	"	"	"	9.4 "	2.5
Hexachlorobutadiene	"	"	"	"	"	ND "	2.5
Isopropylbenzene	"	"	"	"	"	ND "	2.5
p-Isopropyltoluene	"	"	"	"	"	ND "	2.5
Methyl ethyl ketone	"	"	"	"	"	ND "	5.0
Methyl isobutyl ketone	"	"	"	"	"	ND "	5.0
Methyl tert-butyl ether	"	"	"	"	"	ND "	2.5
Methylene chloride	"	"	"	"	"	ND "	2.5
Naphthalene	"	"	"	"	"	13 "	2.5
n-Propylbenzene	"	"	"	"	"	4.4 "	2.5
Styrene	"	"	"	"	"	ND "	2.5
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	2.5
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	2.5
Tetrachloroethene	"	"	"	"	"	ND "	2.5
Toluene	"	"	"	"	"	ND "	1.5
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	2.5
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	2.5
1,1,1-Trichloroethane	"	"	"	"	"	ND "	2.5
1,1,2-Trichloroethane	"	"	"	"	"	ND "	2.5
Trichloroethene	"	"	"	"	"	ND "	2.5
Trichlorofluoromethane	"	"	"	"	"	ND "	2.5
Trichlorotrifluoroethane	"	"	"	"	"	ND "	2.5
1,2,3-Trichloropropane	"	"	"	"	"	ND "	2.5
1,2,4-Trimethylbenzene	"	"	"	"	"	44 "	2.5
1,3,5-Trimethylbenzene	"	"	"	"	"	11 "	2.5
Vinyl chloride	"	"	"	"	"	ND "	2.5

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Tetra Tech/MFG, Inc.

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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208 Mason St. Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

Page 4 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD - Water (A308008-01)		Sample Type: Water		Sampled: 07/31/03 11:25			
Volatile Organic Compounds by EPA Method 8260B (cont'd)							
R-06							
m,p-Xylene	8260B	"	"	08/11/03	"	55 "	2.5
o-Xylene	"	"	"	"	"	24 "	2.5
Xylenes (total)	"	"	"	"	"	79 "	2.5
<i>Surrogate: Dibromofluoromethane</i>	"	"	"	"		86.4 %	69-119
<i>Surrogate: Toluene-d8</i>	"	"	"	"		86.4 %	74-118
<i>Surrogate: Bromofluorobenzene</i>	"	"	"	"		88.0 %	58-112
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 1664	AH31508	08/14/03	08/15/03	1	9.1 mg/l	5.0
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AH30714	08/07/03	08/07/03	1.0205	10000 ug/l	51
TPH as Motor Oil	"	"	"	"	"	8900 "	100
<i>Surrogate: 1,4-Bromofluorobenzene</i>	"	"	"	"		110 %	14-116
TPH as Gasoline by GCFID/5030							
TPH as Gasoline	8015GRO	AH30820	08/07/03	08/07/03	1	1100 ug/l	50
<i>Surrogate: 1,4-Bromofluorobenzene</i>	"	"	"	"		119 %	63-150

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Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 5 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

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 AH31121 - EPA 5030 Water MS										
Blank (AH31121-BLK1)				Prepared & Analyzed: 08/10/03						
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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Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 6 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

Order Number: A308008 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

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 AH31121 - EPA 5030 Water MS										
Blank (AH31121-BLK1)				Prepared & Analyzed: 08/10/03						
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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CHEMICAL EXAMINATION REPORT

Page 7 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

Order Number: A308008 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Blank (AH31121-BLK1) and LCS (AH31121-BS1) with various chemical analytes and their corresponding results and limits.

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CHEMICAL EXAMINATION REPORT

Page 8 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

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 AH31121 - EPA 5030 Water MS										
LCS (AH31121-BS1)				Prepared & Analyzed: 08/10/03						
Carbon tetrachloride	11.6	0.50	"	10.0		116	72-125			
Chlorobenzene	9.80	0.50	"	10.0		98.0	82-112			
Chloroethane	8.74	0.50	"	10.0		87.4	75-126			
Chloroform	10.2	0.50	"	10.0		102	77-117			
Chloromethane	8.91	0.50	"	10.0		89.1	68-133			
2-Chlorotoluene	9.45	0.50	"	10.0		94.5	79-119			
4-Chlorotoluene	9.31	0.50	"	10.0		93.1	76-117			
Dibromochloromethane	11.4	0.50	"	10.0		114	80-116			
1,2-Dibromo-3-chloropropane	11.2	0.50	"	10.0		112	68-122			
1,2-Dibromoethane (EDB)	10.3	0.50	"	10.0		103	84-117			
Dibromomethane	9.90	0.50	"	10.0		99.0	83-115			
1,2-Dichlorobenzene	9.66	0.50	"	10.0		96.6	83-113			
1,3-Dichlorobenzene	9.32	0.50	"	10.0		93.2	82-117			
1,4-Dichlorobenzene	9.73	0.50	"	10.0		97.3	85-113			
Dichlorodifluoromethane	8.32	0.50	"	10.0		83.2	58-162			
1,1-Dichloroethane	9.80	0.50	"	10.0		98.0	75-126			
1,2-Dichloroethane	10.1	0.50	"	10.0		101	78-115			
1,1-Dichloroethene	10.2	0.30	"	10.0		102	77-123			
cis-1,2-Dichloroethene	10.0	0.50	"	10.0		100	75-117			
trans-1,2-Dichloroethene	10.0	0.50	"	10.0		100	79-114			
1,2-Dichloropropane	9.92	0.50	"	10.0		99.2	75-116			
1,3-Dichloropropane	10.2	0.50	"	10.0		102	83-118			
2,2-Dichloropropane	10.6	0.50	"	10.0		106	71-123			
1,1-Dichloropropene	9.88	0.50	"	10.0		98.8	74-119			
cis-1,3-Dichloropropene	10.4	0.50	"	10.0		104	77-124			
trans-1,3-Dichloropropene	10.7	0.50	"	10.0		107	70-113			
Ethylbenzene	9.92	0.50	"	10.0		99.2	81-119			

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Cheryl Watson For Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

Order Number: A308008
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like Hexachlorobutadiene, Isopropylbenzene, etc., and a 'Batch AH31121 - EPA 5030 Water MS' section.

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

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Project Manager

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CHEMICAL EXAMINATION REPORT

Page 10 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

Order Number: A308008
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AH31121 - EPA 5030 Water MS, LCS (AH31121-BS1), and LCS Dup (AH31121-BS1).

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Project Manager

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

Order Number: A308008 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Table with 11 columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, etc., and a summary row for Batch AH31121 - EPA 5030 Water MS.

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Project Manager

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CHEMICAL EXAMINATION REPORT

Page 12 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

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 AH31121 - EPA 5030 Water MS											
LCS Dup (AH31121-BSD1)				Prepared & Analyzed: 08/10/03							QM-10
1,1,2,2-Tetrachloroethane	9.47	0.50	"	10.0		94.7	80-116	4.74	25		
Tetrachloroethene	17.2	0.50	"	10.0		172	82-120	13.7	25	QM-03	
Toluene	10.3	0.30	"	10.0		103	83-120	3.86	25		
1,2,3-Trichlorobenzene	9.44	0.50	"	10.0		94.4	80-115	0.425	25		
1,2,4-Trichlorobenzene	9.33	0.50	"	10.0		93.3	78-114	0.430	25		
1,1,1-Trichloroethane	11.0	0.50	"	10.0		110	74-120	4.65	25		
1,1,2-Trichloroethane	10.4	0.50	"	10.0		104	79-117	1.94	25		
Trichloroethene	11.4	0.50	"	10.0		114	77-124	9.17	25		
Trichlorofluoromethane	9.46	0.50	"	10.0		94.6	78-124	2.24	25		
Trichlorotrifluoroethane	9.57	0.50	"	9.84		97.3	83-123	5.48	25		
1,2,3-Trichloropropane	10.4	0.50	"	10.0		104	86-117	1.94	25		
1,2,4-Trimethylbenzene	9.50	0.50	"	10.0		95.0	82-120	2.67	25		
1,3,5-Trimethylbenzene	9.37	0.50	"	10.0		93.7	78-116	3.92	25		
Vinyl chloride	8.99	0.50	"	10.0		89.9	72-131	1.80	25		
m,p-Xylene	19.7	0.50	"	20.0		98.5	80-118	3.09	25		
o-Xylene	9.82	0.50	"	10.0		98.2	79-121	4.58	25		
Xylenes (total)	29.5	0.50	"	30.0		98.3	79-121	3.45	25		
Surrogate: Dibromofluoromethane	21.8		"	25.0		87.2	69-119				
Surrogate: Toluene-d8	22.3		"	25.0		89.2	74-118				
Surrogate: Bromofluorobenzene	21.2		"	25.0		84.8	58-112				
Matrix Spike (AH31121-MS1)				Source: A308143-05 Prepared & Analyzed: 08/10/03							
Acetone	32.3	5.0	ug/l	39.4	ND	82.0	40-150				
Benzene	10.2	0.30	"	10.0	ND	102	63-144				
Bromobenzene	9.46	0.50	"	10.0	ND	94.6	61-143				
Bromochloromethane	9.66	0.50	"	10.0	ND	96.6	65-136				
Bromodichloromethane	11.0	0.50	"	10.0	ND	110	60-141				

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Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

Order Number: A308008 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like Bromoform, Chlorobenzene, etc., under the heading 'Batch AH31121 - EPA 5030 Water MS'.

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Project Manager

8/18/03



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MFG, Inc - Arcata
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Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

Order Number: A308008 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like 2,2-Dichloropropane, 1,1-Dichloropropene, etc., and a 'Batch AH31121 - EPA 5030 Water MS' section.

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Project Manager

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CHEMICAL EXAMINATION REPORT

Page 15 of 19

MFG, Inc - Arcata
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Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

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 AH31121 - EPA 5030 Water MS										
Matrix Spike (AH31121-MS1) Source: A308143-05 Prepared & Analyzed: 08/10/03										
1,2,4-Trimethylbenzene	9.95	0.50	"	10.0	ND	99.5	55-155			
1,3,5-Trimethylbenzene	9.61	0.50	"	10.0	ND	96.1	49-155			
Vinyl chloride	9.57	0.50	"	10.0	ND	95.7	65-168			
m,p-Xylene	19.3	0.50	"	20.0	ND	96.5	60-149			
o-Xylene	9.50	0.50	"	10.0	ND	95.0	59-148			
Xylenes (total)	28.8	0.50	"	30.0	ND	96.0	59-149			
Surrogate: Dibromofluoromethane	21.7		"	25.0		86.8	69-119			
Surrogate: Toluene-d8	21.8		"	25.0		87.2	74-118			
Surrogate: Bromofluorobenzene	21.6		"	25.0		86.4	58-112			

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CHEMICAL EXAMINATION REPORT

Page 16 of 19

MFG, Inc - Arcata
875 Crescent Way
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Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31508 - General Preparation										
Blank (AH31508-BLK1)				Prepared: 08/14/03 Analyzed: 08/15/03						
Oil & Grease (HEM-SG)	ND	5.0	mg/l							
LCS (AH31508-BS1)				Prepared: 08/14/03 Analyzed: 08/15/03						
Oil & Grease (HEM-SG)	9.10	5.0	mg/l	10.0		91.0	83-116			
LCS Dup (AH31508-BSD1)				Prepared: 08/14/03 Analyzed: 08/15/03						
Oil & Grease (HEM-SG)	9.80	5.0	mg/l	10.0		98.0	83-116	7.41	28	QM-10

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CHEMICAL EXAMINATION REPORT

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Arcata, CA 95521
Attn: Ed Conti

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

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 AH30714 - EPA 3510B Water											
Blank (AH30714-BLK1)				Prepared & Analyzed: 08/07/03							
TPH as Diesel	ND	50	ug/l								
TPH as Motor Oil	ND	100	"								
Surrogate: 1,4-Bromofluorobenzene	484		"	620		78.1	14-116				
LCS (AH30714-BS1)				Prepared & Analyzed: 08/07/03							
TPH as Diesel	2020	50	ug/l	2090		96.7	57-136				
TPH as Motor Oil	2170	100	"	2090		104	58-138				
Surrogate: 1,4-Bromofluorobenzene	537		"	620		86.6	14-116				
LCS Dup (AH30714-BSD1)				Prepared & Analyzed: 08/07/03							QM-10
TPH as Diesel	2050	50	ug/l	2090		98.1	57-136	1.47	25		
TPH as Motor Oil	2200	100	"	2090		105	58-138	1.37	25		
Surrogate: 1,4-Bromofluorobenzene	536		"	620		86.5	14-116				

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Project Manager

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CHEMICAL EXAMINATION REPORT

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875 Crescent Way
Arcata, CA 95521
Attn: Ed Conti

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A308008	08/01/2003 14:20	MFGARC	

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 AH30820 - EPA 5030 Water GC										
Blank (AH30820-BLK1)				Prepared & Analyzed: 08/07/03						
TPH as Gasoline	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	20.5		"	23.1		88.7	63-150			
LCS (AH30820-BS2)				Prepared & Analyzed: 08/07/03						
TPH as Gasoline	52.6	50	ug/l	50.0		105	79-123			
Surrogate: 1,4-Bromofluorobenzene	23.3		"	20.0		116	63-150			
LCS Dup (AH30820-BSD2)				Prepared & Analyzed: 08/07/03						
TPH as Gasoline	51.0	50	ug/l	50.0		102	79-123	3.09	15	QM-10
Surrogate: 1,4-Bromofluorobenzene	22.8		"	20.0		114	63-150			

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Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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

Page 19 of 19

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

Report Date: 08/18/03 10:22
Project No: 030229.B
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308008	08/01/2003 14:20	MFGARC	

Notes and Definitions

- A-01 Kerosene is present at about 7/8 of the Diesel response and is included therein.
- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- QM-03 The spike recovery was high for this analyte. The batch was accepted based on a non-detect for the analyte.
- QM-10 LCSD prepared with analytical batch due to insufficient sample for MS/MSD.
- R-06 The Reporting Limits for this analysis have been raised to account for matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

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Tetra Tech/MFG, Inc.

844
 01/11/03

MFG, INC.
CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS
 COC No. **42865**

Seattle Office
 8203 36th Avenue W.
 Suite 101
 Lynnwood, WA 98036-5707
 Tel: (425) 921-4000
 Fax: (425) 921-4040

Osburn Office
 180 Howard Street, Suite 200
 San Francisco, CA 94105-1617
 Phone (415) 495-7110 FAX (415) 495-7107

Irvine Office
 17770 Cartwright Road
 P.O. Box 30
 Wallace, ID
 83873-0030
 Tel: (208) 556-6811
 Fax: (208) 556-7271

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

Arcata Office
 5 Crescent Way
 Arcata, CA 95521-6741
 one (707) 826-8430 FAX (707) 826-8437

PAGE: 1 OF: 1
 DATE: 7/31/03
 DESTINATION: Alpha Analytical

PROJECT NAME: SPI - Arcata Sawmill
 PROJECT MANAGER: Ed Conti
 CARRIER/WAYBILL NO: _____

PROJECT NO: 030229.8
 SAMPLER (Signature): [Signature]
 METHOD OF SHIPMENT: Carrier

Field Sample Identification

PP - Water
 PP - Water

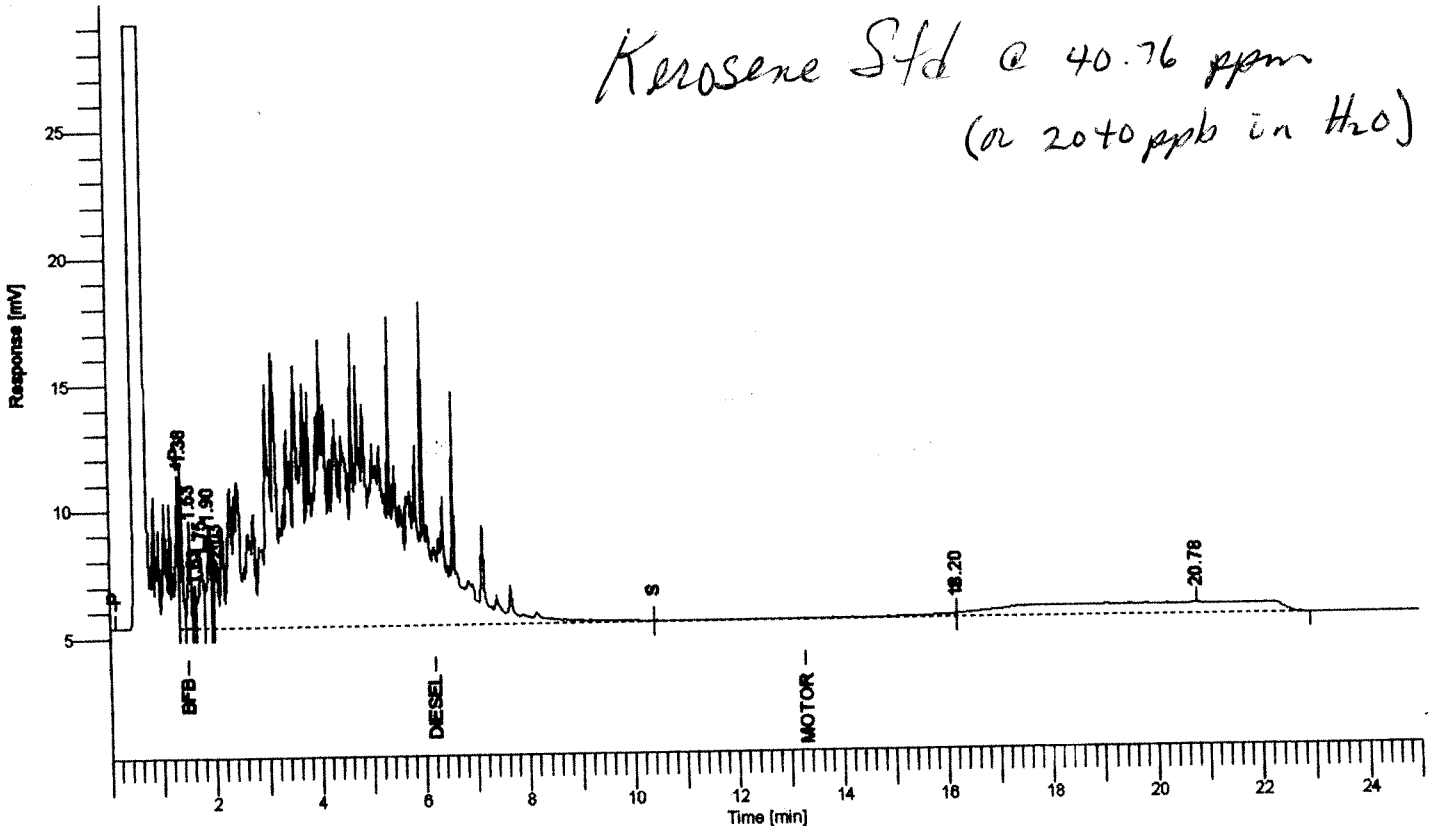
ANALYSIS REQUEST										
Field Sample Identification	Containers			Preservation			Filtration*			Remarks
	VOLUME (ml/oz)	TYPE*	NO.	HCl	HNO ₃	H ₂ SO ₄	COLD	MATRIX*	NO.	
PP - Water	1L	G	2		✓			Ag		STANDARD
PP - Water	40ml	G	5		✓			Ag		Please Note temp on chain of custody. Silica gel cleanup for oil and grease. NOTE WHETHER DIESEL CHROM. RESEMBLES KEROSENE PER DRIN
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Tetra Tech/MFG, Inc.										
Cooler Temp: <u>2.2°C</u>										
LABORATORY COMMENTS/CONDITION OF SAMPLES										
TOTAL NUMBER OF CONTAINERS: <u>7</u>										
RELINQUISHED BY:				RECEIVED BY:						
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY			
<u>[Signature]</u>	<u>Orrin Ploche</u>	<u>MFG, Inc</u>	<u>8/1/03</u>	<u>10:21 AM</u>	<u>[Signature]</u>	<u>T DALY</u>	<u>ALPHA LABS</u>			
<u>[Signature]</u>	<u>T DALY</u>	<u>ALPHA LABS</u>	<u>8/1/03</u>	<u>1420</u>	<u>[Signature]</u>	<u>Leslie Gorman</u>	<u>Alpha Labs LABORATORY</u>			

*KEY Matrix: AO - 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


```

Software Version : 6.1.2.0.1:D19      Date : 8/7/03 11:36:1
Sample Name      : KERO(40.76)        Data Acquisition Time : 8/7/03 11:11:05
Instrument Name  : DsMo                PM
Rack/Vial       : 0/0
Sample Amount   : 1.000000            Channel : A
Cycle           : 13                  Operator  : marvin
                                           Dilution Factor : 1.000000
    
```

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT764.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080703.seq



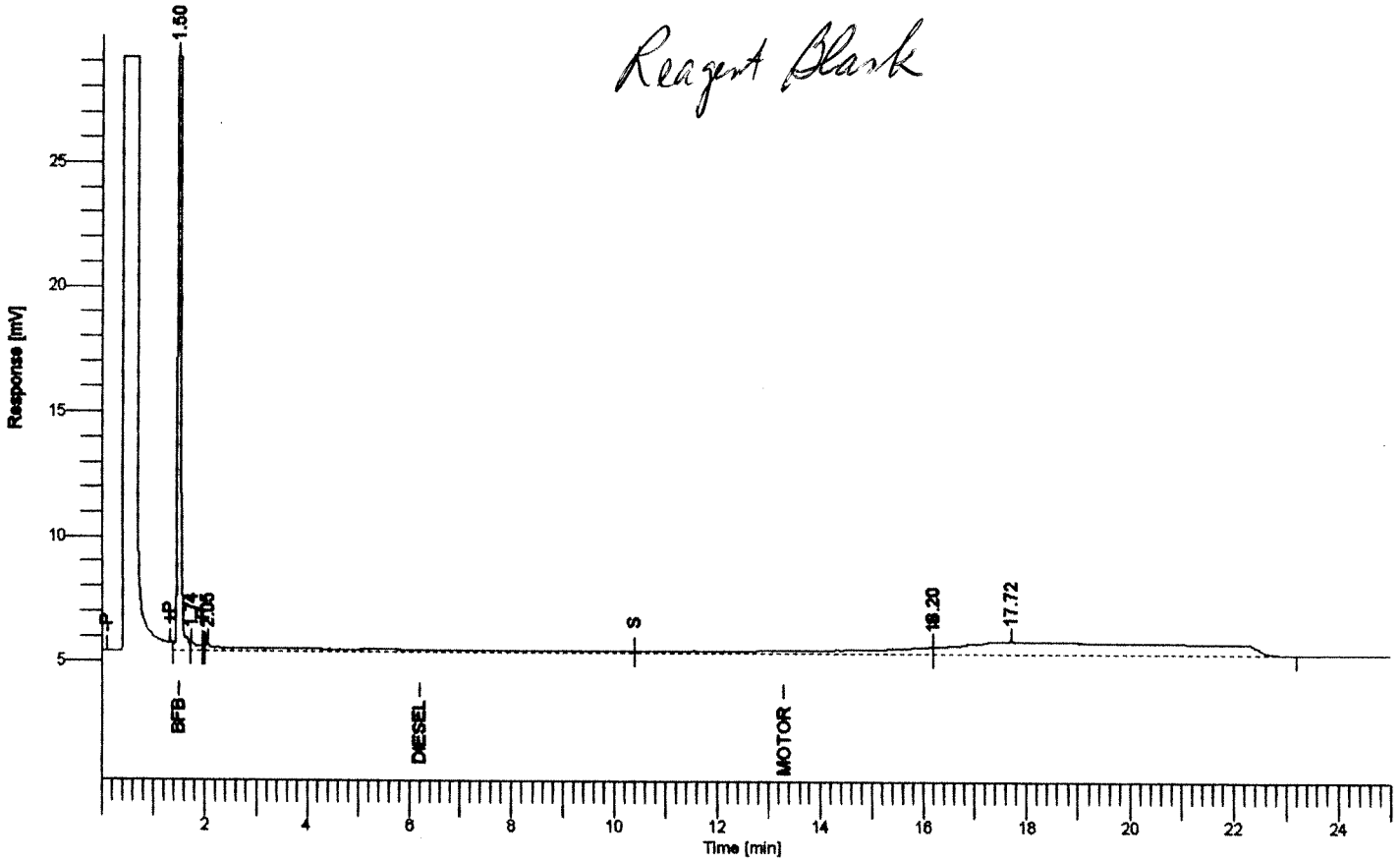
Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.38	BFB	0.643	18384	4667
2	1.53		0.013	13209	3187
3	1.63		0.003	3453	1005
4	1.75		0.016	15622	2103
5	1.90		0.017	17450	3330
6	2.03	Diesel	33.286	1473393	2057
7	16.20	Motor Oil	0.375	16465	135
8	20.78		0.142	142461	419
			34.496	1700437	16904

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT764.TX0

Software Version : 6.1.2.0.1:D19 Date : 8/7/03 5:31:41
 Sample Name : AH30714-BLK1 Data Acquisition Time : 8/7/03 5:06:25
 Instrument Name : DsMo Channel : PM
 Rack/Vial : 0/0 Operator : marvin
 Sample Amount : 1.000000 Dilution Factor : 1.000000
 Cycle : 4

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT755.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080703.seq



Diesel/Motor Oil

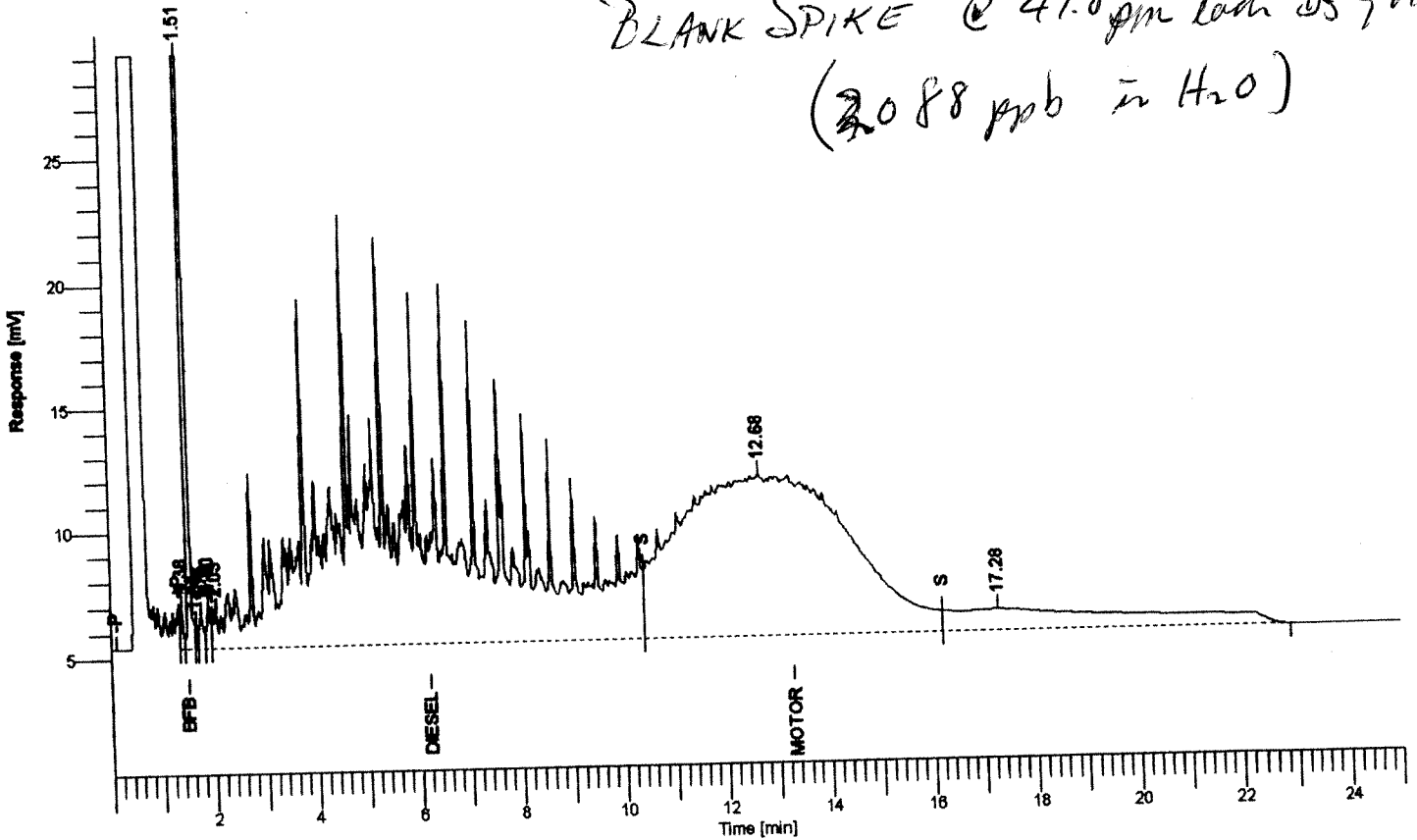
Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	9.679	208394	64442
2	1.74		0.003	3380	325
3	2.05	Diesel	0.568	47918	293
4	16.20	Motor Oil	1.177	43729	273
5	17.72		0.164	163517	507
			11.591	466938	65840

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT755.TX0

Software Version : 6.1.2.0.1:D19 Date : 8/7/03 6:12:14
 Sample Name : AH30714-BS1 Data Acquisition Time : 8/7/03 5:47:00
 Instrument Name : DsMo Channel : A
 Rack/Vial : 0/0 Operator : marvin
 Sample Amount : 1.000000 Dilution Factor : 1.000000
 Cycle : 5

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT756.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080703.seq

*BLANK SPIKE @ 41.8 pm each Ds & MOil
 (2088 ppb in H₂O)*



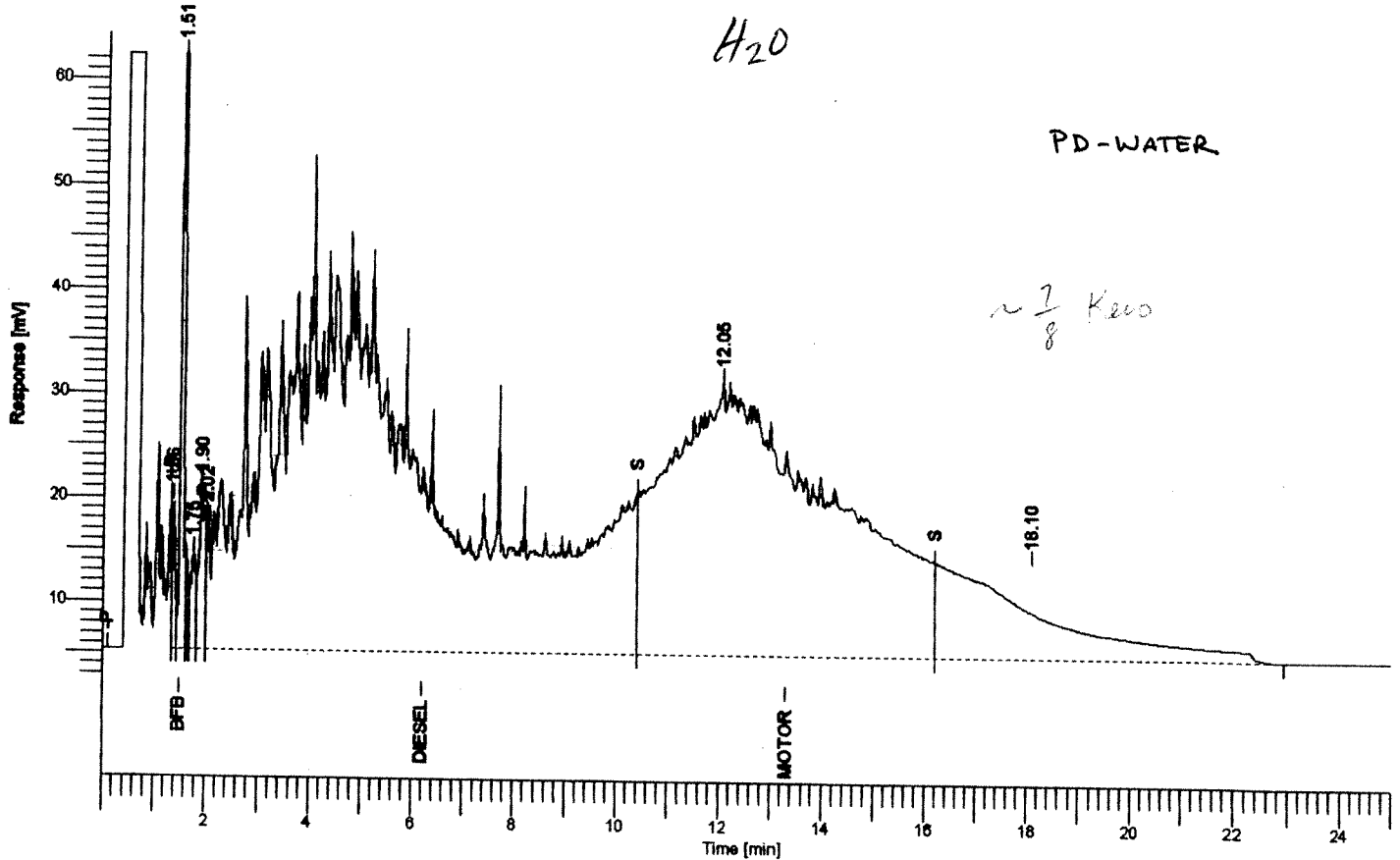
Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.38		0.006	5804	1427
2	1.51	BFB	10.742	235062	81720
3	1.65		0.003	2638	902
4	1.75		0.007	6968	1191
5	1.90		0.008	7946	1524
6	2.03	Diesel	40.458	1784659	1335
7	12.68	Motor Oil	43.453	1478835	6419
8	17.28		0.226	225863	836
			94.902	3747774	95355

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT756.TXTO

Software Version : 6.1.2.0.1:D19 Date : 8/8/03 8:43
 Sample Name : A308008-01 Data Acquisition Time : 8/7/03 7:48:2
 Instrument Name : DsMo Channel : PM
 Rack/Vial : 0/0 Operator : A
 Sample Amount : 1.000000 Dilution Factor : 1.000000
 Cycle : 8

Raw Data File : C:\PenExe\TcWS\Stats\Data\ATDAT759.raw
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080703.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.36		0.063	62525	13400
2	1.51	BFB	13.706	314285	81297
3	1.75		0.065	64801	9244
4	1.90		0.133	132644	15251
5	2.02	Diesel	198.701	8544861	12652
6	12.05	Motor Oil	174.219	5889190	26331
7	18.10		1.318	1318292	4416
			388.205	2e+07	162592

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT759.TX0

APPENDIX B

**Laboratory Reports and Chain-of-Custody Records
for Soil Samples**



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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18 August 2003

MFG, Inc - Arcata

Attn: Ed Conti

875 Crescent Way

Arcata, CA 95521

RE: SPI Arcata Sawmill

Work Order: A308011

Enclosed are the results of analyses for samples received by the laboratory on 08/01/03 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cheryl Watson For Karen A. Daly
Project Manager

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Tetra Tech/MFG, Inc.



Alpha Analytical Laboratories Inc.

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CHEMICAL EXAMINATION REPORT

Page 1 of 30

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308011	08/01/2003 14:20	MFGARC	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PD-NW-3'	A308011-01	Soil	07/31/03 15:18	08/01/03 14:20
PD-NE-2.5'	A308011-02	Soil	07/31/03 15:29	08/01/03 14:20
PD-NE2-1.5'	A308011-03	Soil	07/31/03 15:41	08/01/03 14:20
PD-SW-2.5'	A308011-04	Soil	07/31/03 15:36	08/01/03 14:20
PD-SW-2.5'	A308011-05	Soil	07/31/03 16:12	08/01/03 14:20
PD-NE2-1.5'	A308011-06	Soil	07/31/03 16:20	08/01/03 14:20
PD-NE-2.5'	A308011-07	Soil	07/31/03 00:00	08/01/03 14:20
PD-NW-3'	A308011-08	Soil	07/31/03 15:55	08/01/03 14:20

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.

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Tetra Tech/MFG, Inc.

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for three sample types: PD-NW-3', PD-NE-2.5', and PD-NE2-1.5'. Each sample type includes 'Conventional Chemistry Parameters by APHA/EPA Methods' and 'TPH as Diesel and Motor Oil by EPA Method 8015 Modified'.

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Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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875 Crescent Way
Arcata, CA 95521
Attn: Ed Conti

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains multiple rows for different sample types (Soil) and methods (EPA 8015 Modified, GCFID/5030, APHA/EPA Methods).

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Project Manager

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Includes sample details for 'Sample Type: Soil' and 'Sampled: 07/31/03 16:12'. Lists various volatile organic compounds and their results (mostly ND).

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.

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Tetra Tech/MFG, Inc.

Handwritten signature of Cheryl Watson

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 5 of 30

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Includes sample details for PD-SW-2.5' (A308011-05) and a list of Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd).

PD-NE2-1.5' (A308011-06) Sample Type: Soil Sampled: 07/31/03 16:20

The results in this report are based on the sample analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Tetra Tech/MFG, Inc.

Handwritten signature of Cheryl Watson For Karen A. Daly

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 6 of 30

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308011	08/01/2003 14:20	MFGARC	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-NE2-1.5' (A308011-06)		Sample Type: Soil		Sampled: 07/31/03 16:20			
Volatile Organic Compounds by EPA Methods 8260B/5035							R-06
Acetone	8260B	AH30902	08/01/03	08/07/03	8660	ND mg/kg	170
Benzene	"	"	"	"	"	ND "	43
Bromobenzene	"	"	"	"	"	ND "	43
Bromochloromethane	"	"	"	"	"	ND "	43
Bromodichloromethane	"	"	"	"	"	ND "	43
Bromoform	"	"	"	"	"	ND "	43
Bromomethane	"	"	"	"	"	ND "	43
n-Butylbenzene	"	"	"	"	"	ND "	43
sec-Butylbenzene	"	"	"	"	"	ND "	43
tert-Butylbenzene	"	"	"	"	"	ND "	43
Carbon tetrachloride	"	"	"	"	"	ND "	43
Chlorobenzene	"	"	"	"	"	ND "	43
Chloroethane	"	"	"	"	"	ND "	43
Chloroform	"	"	"	"	"	ND "	43
Chloromethane	"	"	"	"	"	ND "	43
2-Chlorotoluene	"	"	"	"	"	ND "	43
4-Chlorotoluene	"	"	"	"	"	ND "	43
Dibromochloromethane	"	"	"	"	"	ND "	43
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	43
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	43
Dibromomethane	"	"	"	"	"	ND "	43
1,2-Dichlorobenzene	"	"	"	"	"	ND "	43
1,3-Dichlorobenzene	"	"	"	"	"	ND "	43
1,4-Dichlorobenzene	"	"	"	"	"	ND "	43
Dichlorodifluoromethane	"	"	"	"	"	ND "	43
1,1-Dichloroethane	"	"	"	"	"	ND "	43
1,2-Dichloroethane	"	"	"	"	"	ND "	43
1,1-Dichloroethene	"	"	"	"	"	ND "	43
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	43
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	43
1,2-Dichloropropane	"	"	"	"	"	ND "	43

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.

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Tetra Tech/MFG, Inc.

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 7 of 30

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Includes sample details for Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd) and a list of 30 compounds with their respective results (mostly ND).

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Handwritten signature of Cheryl Watson For Karen A. Daly

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Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 8 of 30

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Attn: Ed Conti

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308011 08/01/2003 14:20 MFGARC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-NE2-1.5' (A308011-06)		Sample Type: Soil			Sampled: 07/31/03 16:20		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)							
m,p-Xylene	8260B	"	"	08/07/03	"	ND "	43
o-Xylene	"	"	"	"	"	ND "	43
Xylenes (total)	"	"	"	"	"	ND "	43
Surrogate: Dibromofluoromethane	"	"	"	"	94.3 %	57-144	
Surrogate: Toluene-d8	"	"	"	"	90.0 %	65-127	
Surrogate: Bromofluorobenzene	"	"	"	"	85.9 %	56-130	

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-NE-2.5' (A308011-07)		Sample Type: Soil			Sampled: 07/31/03 00:00		
Volatile Organic Compounds by EPA Methods 8260B/5035							
Acetone	8260B	AH30902	08/01/03	08/08/03	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
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

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.

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Tetra Tech/MFG, Inc.

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 9 of 30

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Includes sample type 'Soil' and 'Sampled: 07/31/03 00:00'. Lists various chemical compounds and their results.

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

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Tetra Tech/MFG, Inc.

Handwritten signature of Cheryl Watson For Karen A. Daly

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains two sections: PD-NE-2.5' (A308011-07) and PD-NW-3' (A308011-08), both for Soil samples. Lists various organic compounds and their results.

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308011 08/01/2003 14:20 MFGARC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-NW-3' (A308011-08)		Sample Type: Soil		Sampled: 07/31/03 15:55			
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)							R-06
Chloroform	8260B	"	"	08/08/03	"	ND "	0.87
Chloromethane	"	"	"	"	"	ND "	0.87
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	"	"	"	"	"	1.1 "	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

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Cheryl Watson For Karen A. Daly
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CHEMICAL EXAMINATION REPORT

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MFG, Inc - Arcata
875 Crescent Way
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Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-NW-3' (A308011-08)		Sample Type: Soil		Sampled: 07/31/03 15:55			
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd) R-06							
Naphthalene	8260B	"	"	08/08/03	"	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	"	"	"	"		89.7 %	57-144
Surrogate: Toluene-d8	"	"	"	"		88.8 %	65-127
Surrogate: Bromofluorobenzene	"	"	"	"		88.8 %	56-130

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Tetra Tech/MFG, Inc.

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 13 of 30

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Contains a list of chemical analytes and their corresponding results, all showing 'ND' (Not Detected).

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Project Manager

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Contains a list of compounds and their results for a blank sample.

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AH30902 - EPA 5035 MS (Blank and Surrogate) and LCS (AH30902-BS1).

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CHEMICAL EXAMINATION REPORT

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Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011
Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sub-sections for Batch AH30902 - EPA 5035 MS and LCS (AH30902-BS1).

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CHEMICAL EXAMINATION REPORT

Page 17 of 30

MFG, Inc - Arcata
875 Crescent Way
Arcata, CA 95521
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Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308011 08/01/2003 14:20 MFGARC

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 AH30902 - EPA 5035 MS										
LCS (AH30902-BS1)				Prepared & Analyzed: 08/07/03						
Hexachlorobutadiene	1.75	0.87	"	1.73		101	68-131			
Isopropylbenzene	1.72	0.87	"	1.73		99.4	66-125			
p-Isopropyltoluene	1.65	0.87	"	1.73		95.4	62-120			
Methyl ethyl ketone	3.36	2.6	"	3.48		96.6	58-138			
Methyl isobutyl ketone	3.08	1.7	"	3.46		89.0	59-133			
Methyl tert-butyl ether	1.79	0.87	"	1.73		103	71-127			
Methylene chloride	1.51	0.87	"	1.73		87.3	60-128			
Naphthalene	1.79	0.87	"	1.73		103	58-133			
n-Propylbenzene	1.70	0.87	"	1.73		98.3	67-124			
Styrene	1.84	0.87	"	1.73		106	65-126			
1,1,1,2-Tetrachloroethane	2.06	0.87	"	1.73		119	65-136			
1,1,2,2-Tetrachloroethane	1.66	0.87	"	1.73		96.0	40-149			
Tetrachloroethene	1.76	0.87	"	1.73		102	52-148			
Toluene	1.74	0.87	"	1.73		101	72-126			
1,2,3-Trichlorobenzene	1.77	0.87	"	1.73		102	67-124			
1,2,4-Trichlorobenzene	1.76	0.87	"	1.73		102	63-125			
1,1,1-Trichloroethane	1.97	0.87	"	1.73		114	55-134			
1,1,2-Trichloroethane	1.70	0.87	"	1.73		98.3	61-138			
Trichloroethene	1.74	0.87	"	1.73		101	74-129			
Trichlorofluoromethane	1.81	0.87	"	1.73		105	61-132			
Trichlorotrifluoroethane	1.76	0.87	"	1.70		104	52-138			
1,2,3-Trichloropropane	1.54	0.87	"	1.73		89.0	66-132			
1,2,4-Trimethylbenzene	1.70	0.87	"	1.73		98.3	66-128			
1,3,5-Trimethylbenzene	1.76	0.87	"	1.73		102	65-123			
Vinyl chloride	1.62	0.87	"	1.73		93.6	59-135			
m,p-Xylene	3.48	0.87	"	3.46		101	67-128			
o-Xylene	1.74	0.87	"	1.73		101	67-126			

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Cheryl Watson For Karen A. Daly
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Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AH30902 - EPA 5035 MS, LCS (AH30902-BS1), and LCS Dup (AH30902-BSD1).

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Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308011 08/01/2003 14:20 MFGARC

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, etc., and a 'Batch AH30902 - EPA 5035 MS' section.

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Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AH30902 - EPA 5035 MS, LCS Dup (AH30902-BSD1), and Matrix Spike (AH30902-MS2).

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Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like Bromoform, Chlorobenzene, etc., and a 'Matrix Spike' section.

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Client Code: MFGARC
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Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like 2,2-Dichloropropane, 1,1-Dichloropropene, etc.

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Client Code: MFGARC
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Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Matrix Spike (AH30902-MS2) and Matrix Spike Dup (AH30902-MSD2).

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Project Manager
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CHEMICAL EXAMINATION REPORT

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Report Date: 08/18/03 12:55
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Project ID: SPI Arcata Sawmill

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Receipt Date/Time: 08/01/2003 14:20
Client Code: MFGARC
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Volatile Organic Compounds by EPA Methods 8260B/5035 - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like 4-Chlorotoluene, Dibromochloromethane, etc.

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Order Number: A308011 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like Methylene chloride, Naphthalene, and Xylenes, along with surrogate compounds.

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.

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Tetra Tech/MFG, Inc.

Handwritten signature of Cheryl Watson

Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31502 - General Preparation										
Blank (AH31502-BLK1)				Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	ND	50	mg/kg							
LCS (AH31502-BS1)				Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	2470	50	mg/kg	2500		98.8	80-120			
Duplicate (AH31502-DUP1)				Source: A308011-03 Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	38100	50	mg/kg		25000			41.5	20	QM-04
Matrix Spike (AH31502-MS1)				Source: A308011-03 Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	27700	50	mg/kg	1500	25000	180	80-120			QM-4X
Matrix Spike Dup (AH31502-MSD1)				Source: A308011-03 Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	28300	50	mg/kg	1500	25000	220	80-120	2.14	20	QM-4X

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Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308011 Receipt Date/Time: 08/01/2003 14:20 Client Code: MFGARC Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Blank (AH30518-BLK1), LCS (AH30518-BS1), and LCS Dup (AH30518-BSD1) with their respective results and quality control flags.

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Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u> A308011	<u>Receipt Date/Time</u> 08/01/2003 14:20	<u>Client Code</u> MFGARC	<u>Client PO/Reference</u>
--------------------------------	--	------------------------------	----------------------------

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 AH30711 - EPA 5030 Soil GC										
Blank (AH30711-BLK1)				Prepared & Analyzed: 08/06/03						
TPH as Gasoline	ND	1.0	mg/kg							
Surrogate: 1,4-Bromofluorobenzene	7.51		"	5.00		150	60-156			
LCS (AH30711-BS2)				Prepared: 08/06/03 Analyzed: 08/07/03						
TPH as Gasoline	33.6	1.0	mg/kg	29.0		116	77-139			
Surrogate: 1,4-Bromofluorobenzene	5.50		"	5.00		110	60-156			
Matrix Spike (AH30711-MS2)				Source: A307614-01		Prepared & Analyzed: 08/06/03				
TPH as Gasoline	30.2	1.0	mg/kg	29.0	2.4	95.9	72-138			
Surrogate: 1,4-Bromofluorobenzene	5.04		"	5.00		101	60-156			
Matrix Spike Dup (AH30711-MSD2)				Source: A307614-01		Prepared & Analyzed: 08/06/03				
TPH as Gasoline	31.3	1.0	mg/kg	29.0	2.4	99.7	72-138	3.58	25	
Surrogate: 1,4-Bromofluorobenzene	5.59		"	5.00		112	60-156			

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Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 29 of 30

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308011	08/01/2003 14:20	MFGARC	

Notes and Definitions

- A-01 Kerosene is present at about 1/10 of the Diesel response and is included therein.
- A-01a Kerosene is present at about 1/6 of the Diesel response and is included therein.
- A-01b Kerosene is present at about 3/4 of the Diesel response and is included therein.
- A-01c LCSD prepared instead of MS/MSD due to high concentrations of heavy hydrocarbons in all samples associated with the analytical batch.
- G-1 Results in the gasoline organics range are primarily due to overlap from a diesel range product
- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- 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-03 The spike recovery was high for this analyte. The batch was accepted based on a non-detect for the analyte.
- QM-04 High RPD and/or poor percent recovery may reflect sample non-homogeneity.
- 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-06 The Reporting Limits for this analysis have been raised to account for matrix interference.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- 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

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Cheryl Watson For Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 30 of 30

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

Report Date: 08/18/03 12:55
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308011	08/01/2003 14:20	MFGARC	

ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
PQL Practical Quantitation Limit

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Tetra Tech/MFG, Inc.

LA
K.A.R.

COC No. 42866

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

Arcata Office
75 Crescent Way
Arcata, CA 95521-6741
Phone (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

Oshburn 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: 030229.8 PROJECT NAME: SPI-Arcata Summit PAGE: 1 OF: 1
 SAMPLER (Signature): Orin Pooder PROJECT MANAGER: Ed Conti DATE: 7/31/03
 METHOD OF SHIPMENT: Carrier CARRIER/WAYBILL NO: _____ DESTINATION: Alpha Analytical Lab.

SAMPLES

Field Sample Identification	Sample		Preservation			Containers		Cons. Agents/Method		Handling		Remarks
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	
PD-NW-3'	7/31/03	3:18	SO				X		6"SI	B	1	STANDARD
PD-NE-2.5'		3:29							6"SI	B	1	silica gel clamp for
PD-NE2-1.5'		3:41							6"SI	B	1	Oil and grease.
PD-SW-2.5'		3:36							6"SI	B	1	Phase note cover
PD-SW-2.5'		4:12							5gm	GF	3	temp on chain of custody -01
PD-NE-2.5'		4:20							5gm	GF	3	Use PD-NE-2.5' for
PD-NE-2.5'		3:55							5gm	GF	6	Voc msl msp
PD-NW-3'		3:55							5gm	GF	3	NOTE: WHETHER DIESEL
8/1/03 14:30 per Matt												CHROM. RESEMBLES
Extract - hold analysis												KEROSENE PER OPER.
TOTAL NUMBER OF CONTAINERS											9	LABORATORY COMMENTS/CONDITIONS OF SAMPLES

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SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME
<i>Orin Pooder</i>	Orin Pooder	MFG INC.	8/1/03	10:21AM
<i>T Daly</i>	T DALY	ALPHA LABS	8/1/03	1420

SIGNATURE	PRINTED NAME	COMPANY
<i>T Daly</i>	T DALY	ALPHA LABS
<i>Keslie Guinn</i>	Keslie Guinn	Alpha Labs LABORATORY

RECEIVED BY: 2.2°C @ 9.403 AM
 Cooler Temp: NW

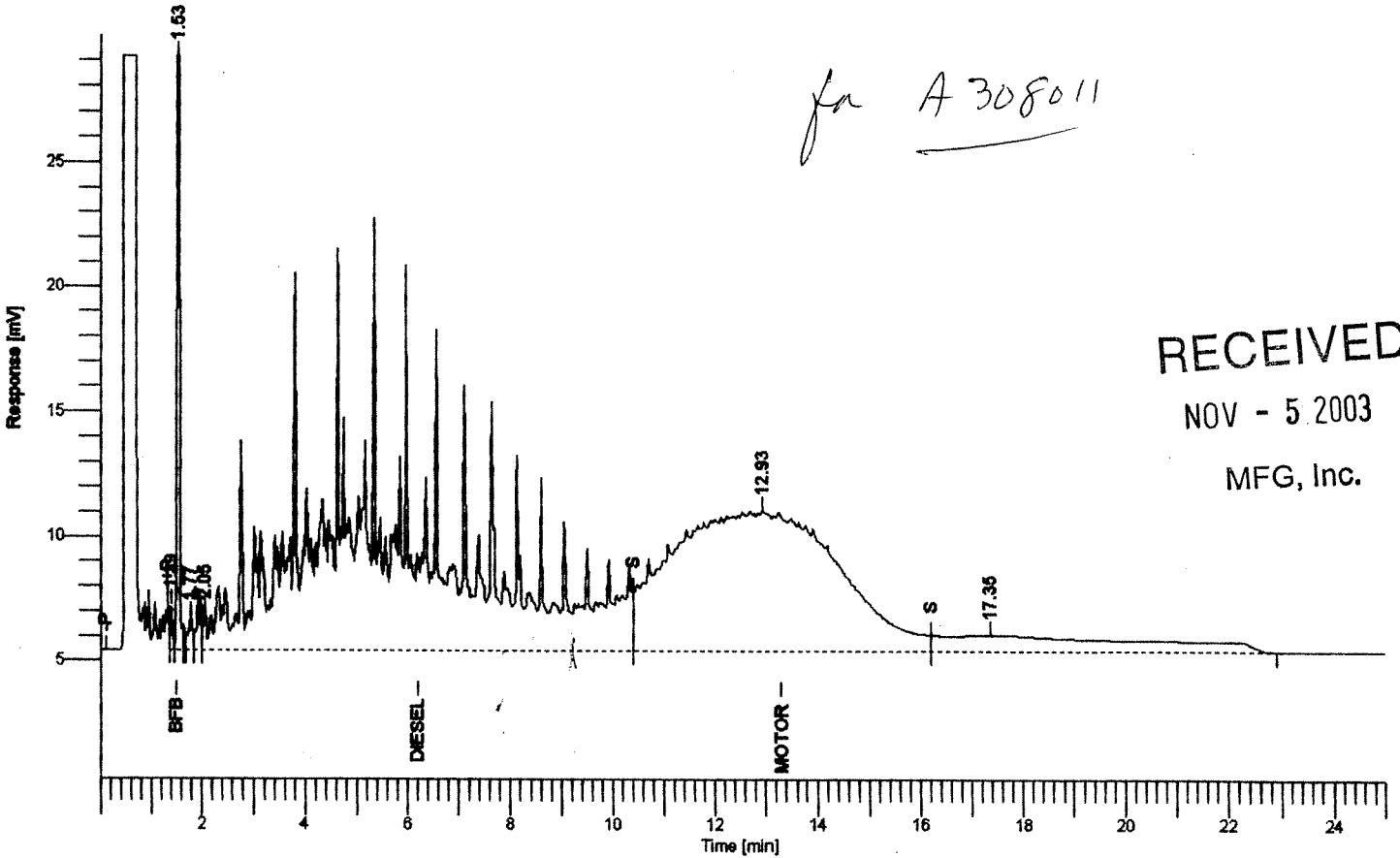
ORRIN UN-CANCELLED THIS SAMPLER FOR ORRIN MAIL 8.7.03 1:50

AUG 21 2003

DISTRIBUTION: AD - 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

Software Version : 6.1.2.0.1:D19 Date : 8/5/03 2:30:17
 Sample Name : DM 40.32 Data Acquisition Time : 8/5/03 11:59:58 AM
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000 Channel : A
 Cycle : 2 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT727.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080503.seq



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Diesel/Motor Oil

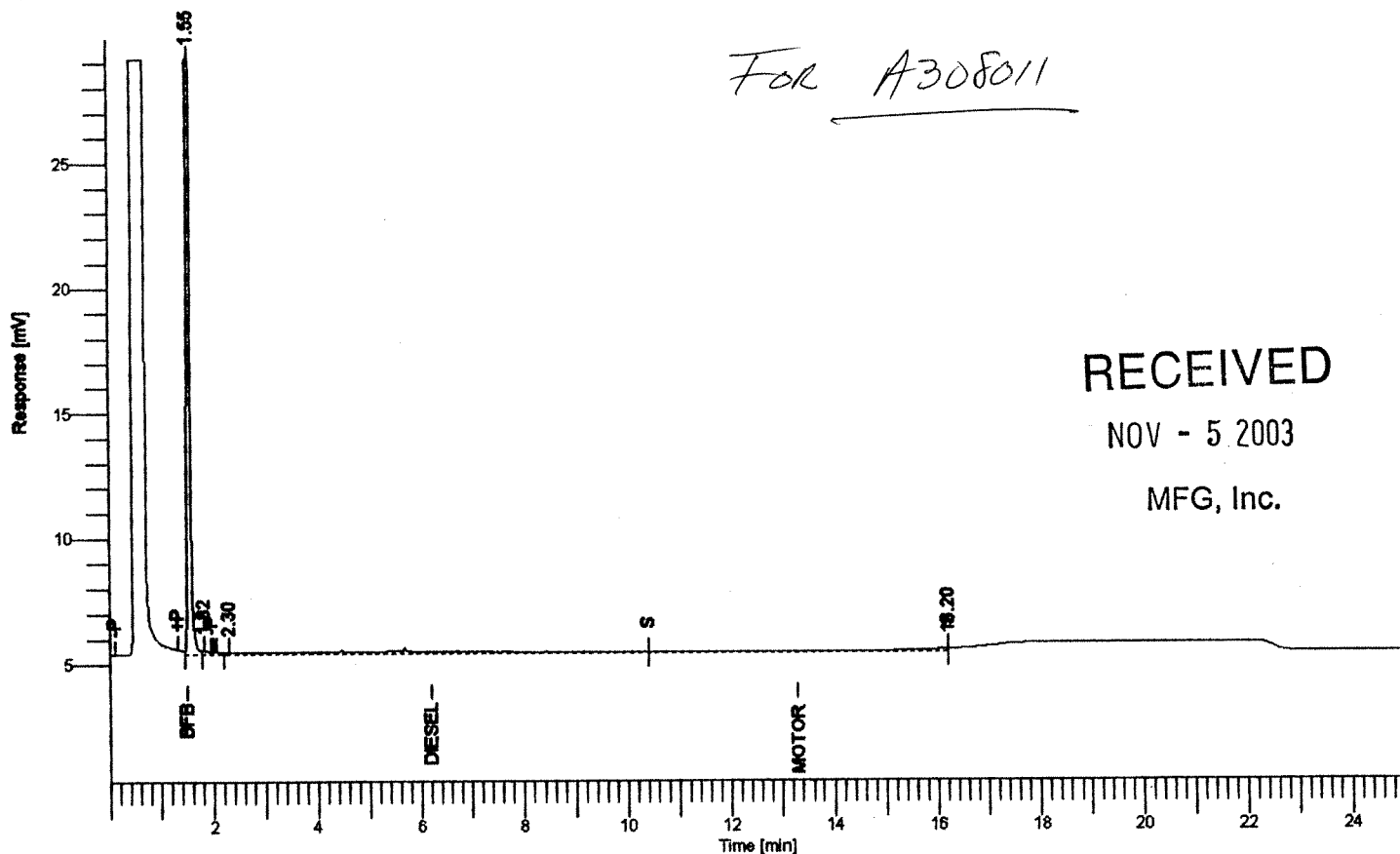
Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.39		0.006	5877	1526
2	1.53	BFB	8.139	171355	66223
3	1.77		0.008	7562	1244
4	2.05	Diesel	37.163	1641727	1334
5	12.93	Motor Oil	37.656	1282319	5642
6	17.35		0.190	189933	659
			83.162	3298772	76628

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT727.TX0

```

Software Version : 6.1.2.0.1:D19      Date : 8/5/03 2:29:54
Sample Name      : Blank Hex           Data Acquisition Time : 8/5/03 11:19:25
Instrument Name  : DsMo                AM
Rack/Vial       : 0/0
Sample Amount   : 1.000000            Channel : A
Cycle          : 1                     Operator  : marvin
                                           Dilution Factor : 1.000000
    
```

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT726.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080503.seq



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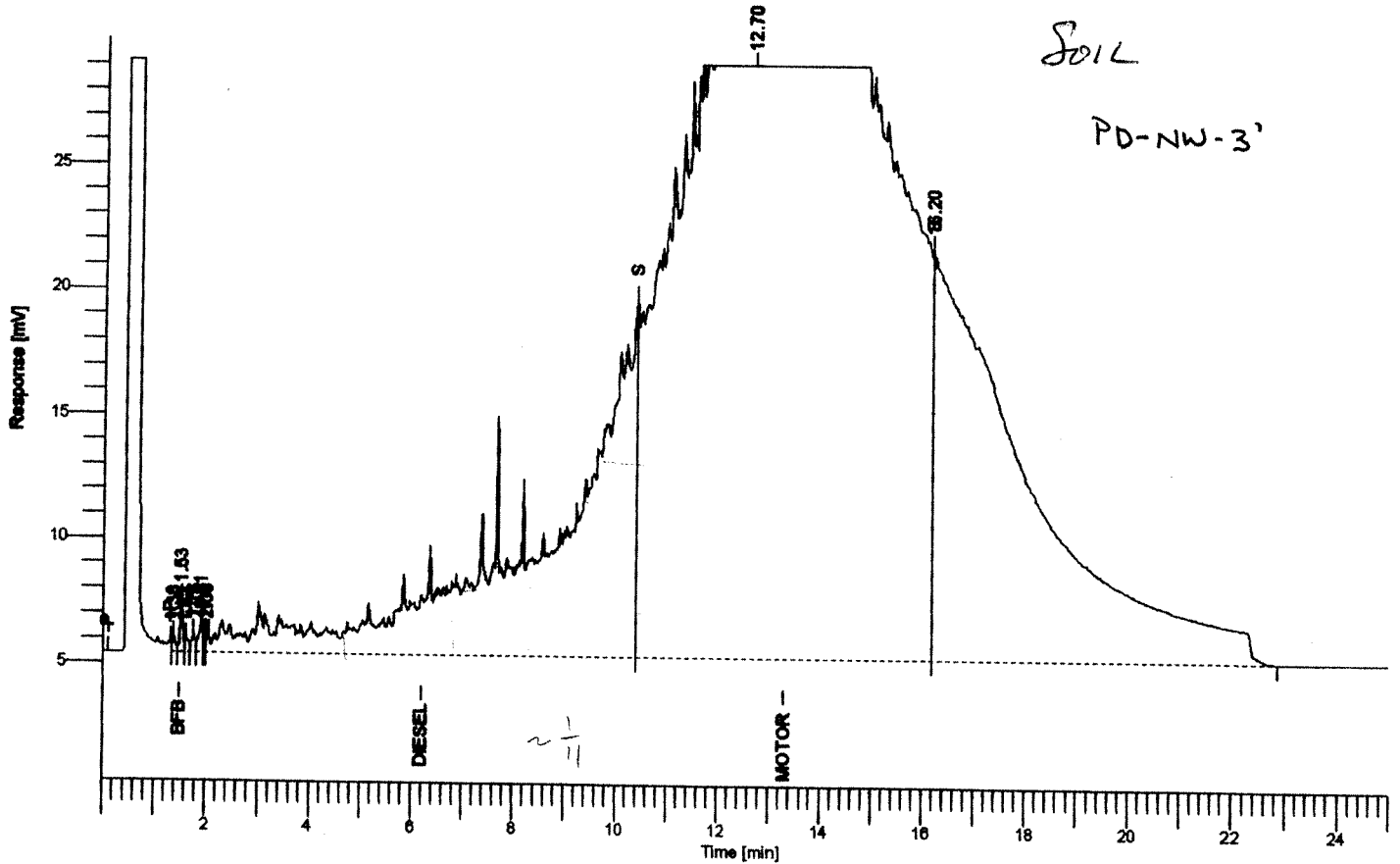
Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.55	BFB	6.681	138053	40579
2	1.82		0.003	3064	179
3	2.30	Diesel	0.226	33000	104
4	16.20	Motor Oil	0.357	15871	115
			7.268	189987	40978

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT726.TX0

Software Version : 6.1.2.0.1:D19 Date : 8/5/03 8:55:12
 Sample Name : A308011-01@40X Data Acquisition Time : 8/5/03 8:30:05
 Instrument Name : DsMo Channel : PM
 Rack/Vial : 0/0 Operator : A
 Sample Amount : 1.000000 Dilution Factor : 1.000000
 Cycle : 9

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT735.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080503.seq



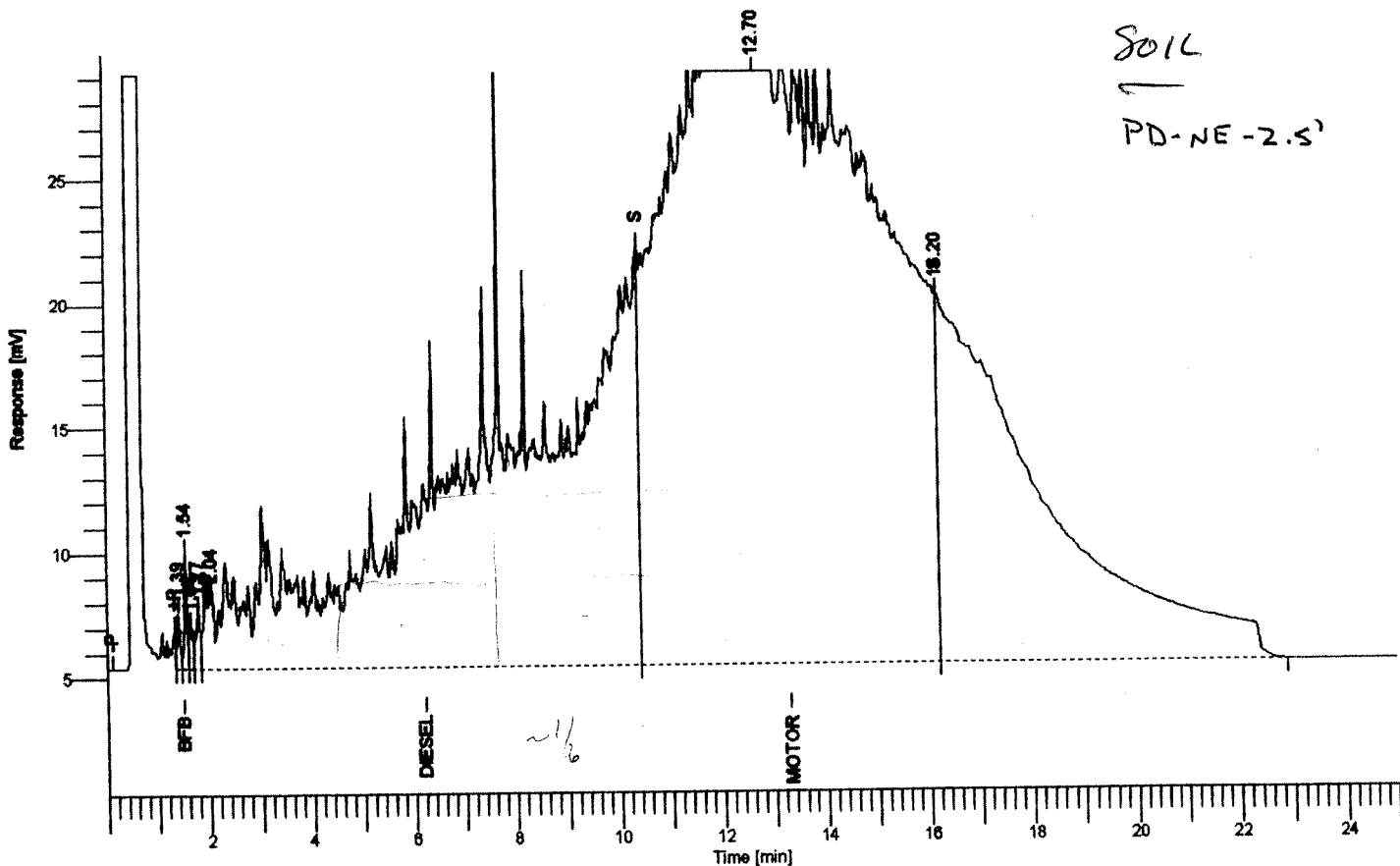
Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.38		0.003	2812	589
2	1.53	BFB	-0.042	6664	1864
3	1.62		0.003	2741	528
4	1.76		0.004	3737	661
5	1.91		0.006	6149	1030
6	2.00	Diesel	35.335	1562386	738
7	12.70	Motor Oil	242.621	8178936	33175
8	16.20		2.087	2086636	16197
			280.016	1e+07	54781

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT735.TX0

Software Version : 6.1.2.0.1:D19 Date : 8/5/03 9:35:41
 Sample Name : A308011-02@40X Data Acquisition Time : 8/5/03 9:10:38
 Instrument Name : DsMo PM
 Rack/Vial : 0/0 Channel : A
 Sample Amount : 1.000000 Operator : marvin
 Cycle : 10 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT736.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080503.seq



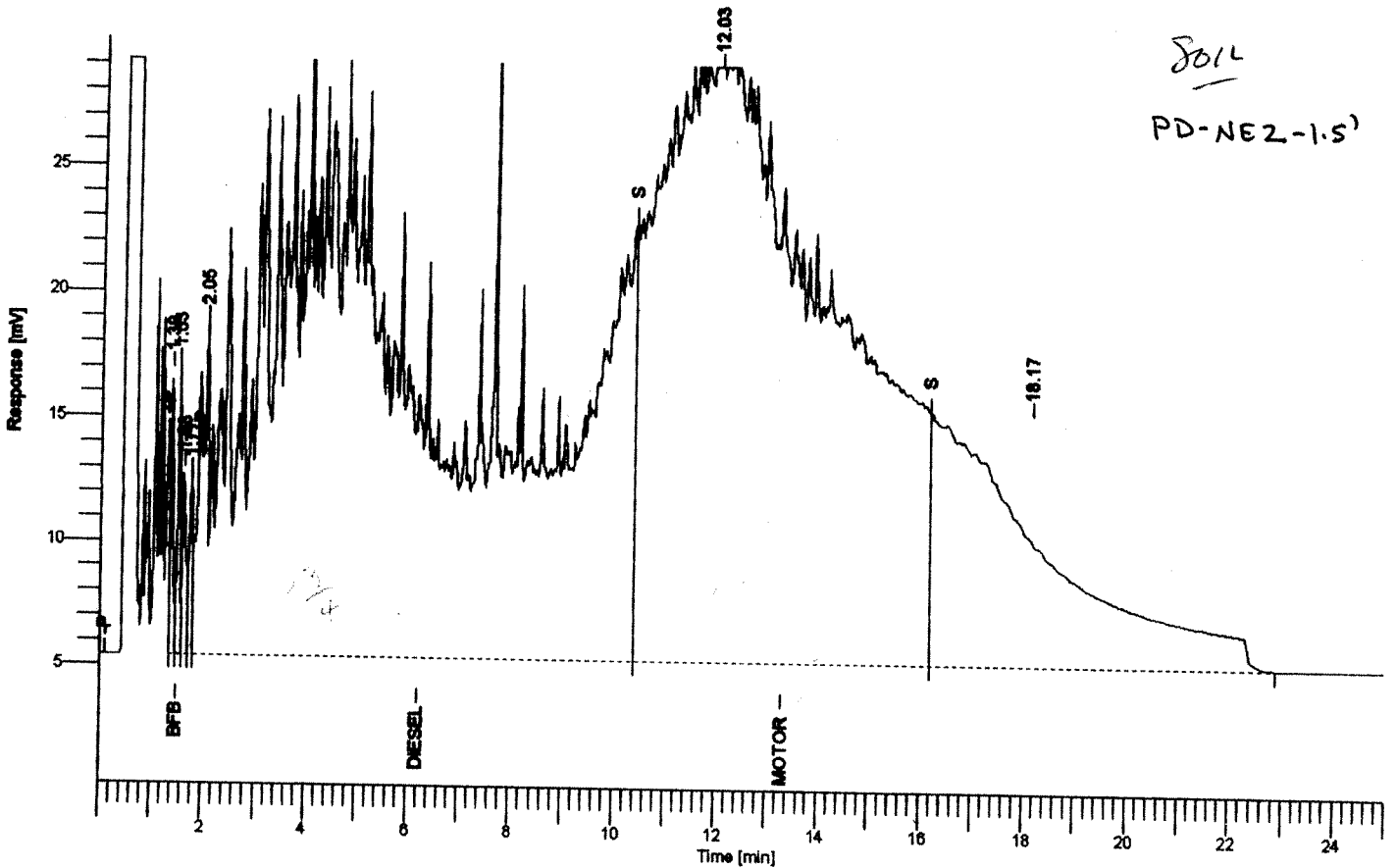
Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.39		0.009	9186	1970
2	1.54	BFB	0.435	14787	3930
3	1.64		0.009	8628	1709
4	1.77		0.013	13297	2171
5	2.04	Diesel	76.669	3349857	2808
6	12.70	Motor Oil	221.030	7457450	29681
7	16.20		2.050	2050309	14773
			300.215	1e+07	57043

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT736.TXO

Sample Name : A308011-03@40X
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 11
 Date : 8/5/03 10:16:11
 Data Acquisition Time : 8/5/03 9:51:11
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT737.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080503.seq



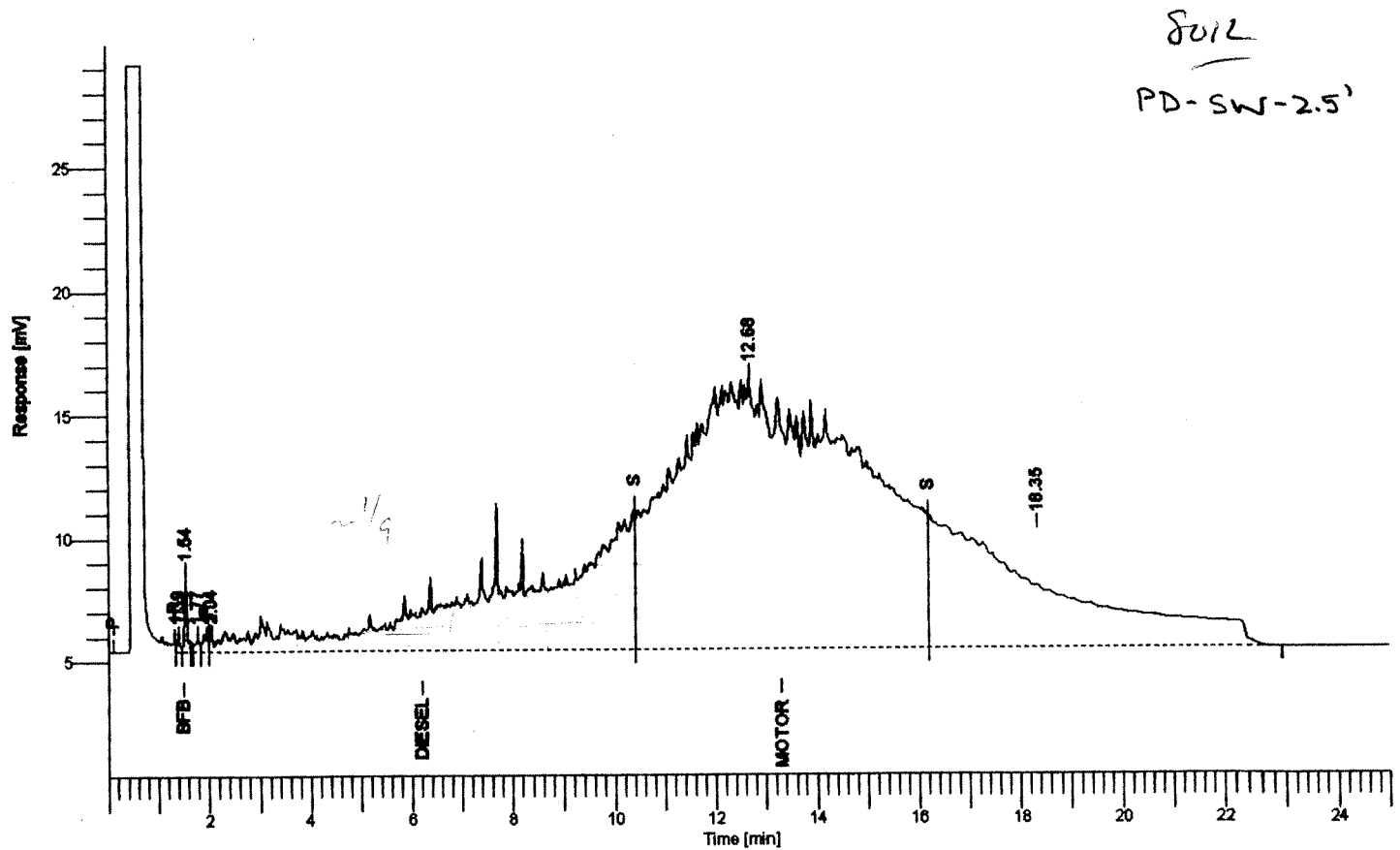
Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.39		0.041	40823	9665
2	1.53	BFB	1.801	39047	10192
3	1.63		0.033	32957	6572
4	1.77		0.034	33526	6817
5	2.05	Diesel	136.791	5924678	12737
6	12.03	Motor Oil	176.243	5957084	26147
7	18.17		1.552	1552228	4987
			316.494	1e+07	77117

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT737.TX0

Software Version : 6.1.2.0.1:D19 Date : 8/5/03 10:56:4
 Sample Name : A308011-04@30X Data Acquisition Time : 8/5/03 10:31:46
 Instrument Name : DsMo PM
 Rack/Vial : 0/0
 Sample Amount : 1.000000 Channel : A
 Cycle : 12 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT738.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_080503.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.39		0.003	2573	485
2	1.54	BFB	0.163	10140	2682
3	1.77		0.003	3365	490
4	2.04	Diesel	20.435	914553	545
5	12.68	Motor Oil	82.259	2792151	11025
6	18.35		0.870	870077	2548
			103.733	4592858	17775

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT738.TX0



alpha

Alpha Analytical Laboratories Inc.

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18 August 2003

MFG, Inc - Arcata

Attn: Ed Conti

875 Crescent Way

Arcata, CA 95521

RE: SPI Arcata Sawmill

Work Order: A308028

Enclosed are the results of analyses for samples received by the laboratory on 08/02/03 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karen A. Daly
Project Manager

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Tetra Tech/MFG, Inc.



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308028	08/02/2003 09:00	MFGARC	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PD-SE-Bottom	A308028-01	Soil	08/01/03 15:00	08/02/03 09:00
PD-NE3-2'	A308028-02	Soil	08/01/03 15:00	08/02/03 09:00
PD-SE-Bottom	A308028-03	Soil	08/01/03 15:00	08/02/03 09:00
PD-NE3-2'	A308028-04	Soil	08/01/03 15:00	08/02/03 09:00

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Tetra Tech/MFG, Inc.

Karen A. Daly
Project Manager

8/18/03



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028 Receipt Date/Time: 08/02/2003 09:00 Client Code: MFGARC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-SE-Bottom (A308028-01)		Sample Type: Soil		Sampled: 08/01/03 15:00			
Volatile Organic Compounds by EPA Methods 8260B/5035							
Acetone	8260B	AH30902	08/03/03	08/08/03	1732	ND mg/kg	35
Benzene	"	"	"	"	"	ND "	8.7
Bromobenzene	"	"	"	"	"	ND "	8.7
Bromochloromethane	"	"	"	"	"	ND "	8.7
Bromodichloromethane	"	"	"	"	"	ND "	8.7
Bromoform	"	"	"	"	"	ND "	8.7
Bromomethane	"	"	"	"	"	ND "	8.7
n-Butylbenzene	"	"	"	"	"	8.8 "	8.7
sec-Butylbenzene	"	"	"	"	"	ND "	8.7
tert-Butylbenzene	"	"	"	"	"	ND "	8.7
Carbon tetrachloride	"	"	"	"	"	ND "	8.7
Chlorobenzene	"	"	"	"	"	ND "	8.7
Chloroethane	"	"	"	"	"	ND "	8.7
Chloroform	"	"	"	"	"	ND "	8.7
Chloromethane	"	"	"	"	"	ND "	8.7
2-Chlorotoluene	"	"	"	"	"	ND "	8.7
4-Chlorotoluene	"	"	"	"	"	ND "	8.7
Dibromochloromethane	"	"	"	"	"	ND "	8.7
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	8.7
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	8.7
Dibromomethane	"	"	"	"	"	ND "	8.7
1,2-Dichlorobenzene	"	"	"	"	"	ND "	8.7
1,3-Dichlorobenzene	"	"	"	"	"	ND "	8.7
1,4-Dichlorobenzene	"	"	"	"	"	ND "	8.7
Dichlorodifluoromethane	"	"	"	"	"	ND "	8.7
1,1-Dichloroethane	"	"	"	"	"	ND "	8.7
1,2-Dichloroethane	"	"	"	"	"	ND "	8.7
1,1-Dichloroethene	"	"	"	"	"	ND "	8.7
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	8.7
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	8.7
1,2-Dichloropropane	"	"	"	"	"	ND "	8.7

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Tetra Tech/MFG. Inc

Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 3 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A308028	08/02/2003 09:00	MFGARC	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-SE-Bottom (A308028-01)		Sample Type: Soil		Sampled: 08/01/03 15:00			
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)							R-06
1,3-Dichloropropane	8260B	"	"	08/08/03	ND "	8.7	
2,2-Dichloropropane	"	"	"	"	ND "	8.7	
1,1-Dichloropropene	"	"	"	"	ND "	8.7	
cis-1,3-Dichloropropene	"	"	"	"	ND "	8.7	
trans-1,3-Dichloropropene	"	"	"	"	ND "	8.7	
Ethylbenzene	"	"	"	"	ND "	8.7	
Hexachlorobutadiene	"	"	"	"	ND "	8.7	
Isopropylbenzene	"	"	"	"	ND "	8.7	
p-Isopropyltoluene	"	"	"	"	ND "	8.7	
Methyl ethyl ketone	"	"	"	"	ND "	26	
Methyl isobutyl ketone	"	"	"	"	ND "	17	
Methyl tert-butyl ether	"	"	"	"	ND "	8.7	
Methylene chloride	"	"	"	"	ND "	8.7	
Naphthalene	"	"	"	"	ND "	8.7	
n-Propylbenzene	"	"	"	"	ND "	8.7	
Styrene	"	"	"	"	ND "	8.7	
1,1,1,2-Tetrachloroethane	"	"	"	"	ND "	8.7	
1,1,2,2-Tetrachloroethane	"	"	"	"	ND "	8.7	
Tetrachloroethene	"	"	"	"	ND "	8.7	
Toluene	"	"	"	"	ND "	8.7	
1,2,3-Trichlorobenzene	"	"	"	"	ND "	8.7	
1,2,4-Trichlorobenzene	"	"	"	"	ND "	8.7	
1,1,1-Trichloroethane	"	"	"	"	ND "	8.7	
1,1,2-Trichloroethane	"	"	"	"	ND "	8.7	
Trichloroethene	"	"	"	"	ND "	8.7	
Trichlorofluoromethane	"	"	"	"	ND "	8.7	
Trichlorotrifluoroethane	"	"	"	"	ND "	8.7	
1,2,3-Trichloropropane	"	"	"	"	ND "	8.7	
1,2,4-Trimethylbenzene	"	"	"	"	49 "	8.7	
1,3,5-Trimethylbenzene	"	"	"	"	14 "	8.7	
Vinyl chloride	"	"	"	"	ND "	8.7	

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for PD-SE-Bottom (A308028-01) and PD-NE3-2' (A308028-02) including volatile organic compounds and TPH gasoline analysis.

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Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 5 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

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Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd) including various chlorinated hydrocarbons and benzene derivatives.

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Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 6 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd) and TPH Gasoline by GCFID/5035.

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Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 7 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308028	08/02/2003 09:00	MFGARC	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-SE-Bottom (A308028-03)		Sample Type: Soil		Sampled: 08/01/03 15:00			
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AH31525	08/15/03	08/15/03	30	4100 mg/kg	30 A-01
TPH as Motor Oil	"	"	"	"	"	3700 "	60
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		679 % 21-110	S-06
PD-NE3-2' (A308028-04)		Sample Type: Soil		Sampled: 08/01/03 15:00			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH31123	08/08/03	08/11/03	1	9300 mg/kg	50
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AH31525	08/15/03	08/18/03	200	10000 mg/kg	200 A-02
TPH as Motor Oil	"	"	"	"	"	5300 "	400
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		2840 % 21-110	S-06

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Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Contains a list of chemical analytes and their corresponding results (mostly ND).

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CHEMICAL EXAMINATION REPORT

Page 9 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308028	08/02/2003 09:00	MFGARC	

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 AH30902 - EPA 5035 MS										
Blank (AH30902-BLK1)				Prepared & Analyzed: 08/07/03						
1,2-Dichloroethane	ND	0.87	"							
1,1-Dichloroethane	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	"							
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	"							

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Karen A. Daly
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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028 Receipt Date/Time: 08/02/2003 09:00 Client Code: MFGARC Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Blank (AH30902-BLK1) and LCS (AH30902-BS1) with various chemical compounds and their corresponding results.

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CHEMICAL EXAMINATION REPORT

Page 11 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A308028	08/02/2003 09:00	MFGARC	

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 AH30902 - EPA 5035 MS										
LCS (AH30902-BS1)				Prepared & Analyzed: 08/07/03						
Carbon tetrachloride	2.36	0.87	"	1.73		136	57-133			QM-03
Chlorobenzene	1.68	0.87	"	1.73		97.1	76-117			
Chloroethane	1.63	0.87	"	1.73		94.2	59-128			
Chloroform	1.80	0.87	"	1.73		104	60-128			
Chloromethane	1.56	0.87	"	1.73		90.2	45-140			
2-Chlorotoluene	1.74	0.87	"	1.73		101	67-127			
4-Chlorotoluene	1.70	0.87	"	1.73		98.3	65-125			
Dibromochloromethane	2.20	0.87	"	1.73		127	56-141			
1,2-Dibromo-3-chloropropane	2.16	0.87	"	1.73		125	61-134			
1,2-Dibromoethane (EDB)	1.77	0.87	"	1.73		102	70-132			
Dibromomethane	1.81	0.87	"	1.73		105	66-123			
1,2-Dichlorobenzene	1.72	0.87	"	1.73		99.4	70-121			
1,3-Dichlorobenzene	1.69	0.87	"	1.73		97.7	65-124			
1,4-Dichlorobenzene	1.74	0.87	"	1.73		101	71-120			
Dichlorodifluoromethane	1.56	0.87	"	1.73		90.2	52-145			
1,1-Dichloroethane	1.75	0.87	"	1.73		101	58-136			
1,2-Dichloroethane	1.75	0.87	"	1.73		101	64-117			
1,1-Dichloroethene	1.71	0.87	"	1.73		98.8	66-131			
cis-1,2-Dichloroethene	2.55	0.87	"	1.73		147	57-131			QM-03
trans-1,2-Dichloroethene	1.73	0.87	"	1.73		100	59-127			
1,2-Dichloropropane	1.76	0.87	"	1.73		102	72-121			
1,3-Dichloropropane	1.74	0.87	"	1.73		101	70-135			
2,2-Dichloropropane	1.80	0.87	"	1.73		104	38-152			
1,1-Dichloropropene	1.75	0.87	"	1.73		101	73-124			
cis-1,3-Dichloropropene	1.90	0.87	"	1.73		110	66-132			
trans-1,3-Dichloropropene	1.91	0.87	"	1.73		110	55-133			
Ethylbenzene	1.74	0.87	"	1.73		101	71-125			

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Karen A. Daly
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CHEMICAL EXAMINATION REPORT

Page 12 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028 Receipt Date/Time: 08/02/2003 09:00 Client Code: MFGARC Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sub-header 'Batch AH30902 - EPA 5035 MS' and 'LCS (AH30902-BS1)'.

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Karen A. Daly (Signature)

Karen A. Daly
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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AH30902 - EPA 5035 MS and LCS Dup (AH30902-BSD1).

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Karen A. Daly
Project Manager

8/18/03



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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, etc., and a 'Batch AH30902 - EPA 5035 MS' section.

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Karen A. Daly
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Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like Tetrachloroethane, Toluene, and Xylenes.

Matrix Spike (AH30902-MS2)

Source: A308028-02 Prepared: 08/03/03 Analyzed: 08/07/03

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for Acetone, Benzene, Bromobenzene, etc.

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Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 16 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308028	08/02/2003 09:00	MFGARC	

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 AH30902 - EPA 5035 MS										
Matrix Spike (AH30902-MS2) Source: A308028-02 Prepared: 08/03/03 Analyzed: 08/07/03										
Bromoform	10.0	4.3	"	8.46	ND	118	47-138			
Bromomethane	8.67	4.3	"	8.46	ND	102	32-180			
n-Butylbenzene	15.4	4.3	"	8.46	21	NR	29-153			QM-01
sec-Butylbenzene	10.2	4.3	"	8.46	9.0	14.2	44-148			QM-01
tert-Butylbenzene	8.61	4.3	"	8.46	ND	102	49-141			
Carbon tetrachloride	11.0	4.3	"	8.46	ND	130	52-133			
Chlorobenzene	8.72	4.3	"	8.46	ND	103	54-133			
Chloroethane	6.28	4.3	"	8.46	ND	74.2	53-136			
Chloroform	9.72	4.3	"	8.46	ND	115	61-126			
Chloromethane	3.92	4.3	"	8.46	ND	46.3	57-130			QM-01
2-Chlorotoluene	8.25	4.3	"	8.46	ND	97.5	52-140			
4-Chlorotoluene	8.16	4.3	"	8.46	ND	96.5	39-149			
Dibromochloromethane	11.2	4.3	"	8.46	ND	132	48-135			
1,2-Dibromo-3-chloropropane	9.52	4.3	"	8.46	ND	113	48-139			
1,2-Dibromoethane (EDB)	8.75	4.3	"	8.46	ND	103	36-156			
Dibromomethane	7.45	4.3	"	8.46	ND	88.1	61-128			
1,2-Dichlorobenzene	8.79	4.3	"	8.46	ND	104	36-156			
1,3-Dichlorobenzene	7.78	4.3	"	8.46	ND	92.0	45-138			
1,4-Dichlorobenzene	8.78	4.3	"	8.46	ND	104	60-136			
Dichlorodifluoromethane	6.75	4.3	"	8.46	ND	79.8	24-189			
1,1-Dichloroethane	9.15	4.3	"	8.46	ND	108	58-142			
1,2-Dichloroethane	9.36	4.3	"	8.46	ND	111	55-125			
1,1-Dichloroethene	9.94	4.3	"	8.46	ND	117	54-147			
cis-1,2-Dichloroethene	13.9	4.3	"	8.46	ND	164	52-129			QM-01
trans-1,2-Dichloroethene	9.45	4.3	"	8.46	ND	112	61-120			
1,2-Dichloropropane	9.25	4.3	"	8.46	ND	109	61-123			
1,3-Dichloropropane	8.35	4.3	"	8.46	ND	98.7	45-150			

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Tetra Tech/MFG, Inc.

Karen A. Daly
Project Manager

8/18/03



Alpha Analytical Laboratories Inc.

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CHEMICAL EXAMINATION REPORT

Page 17 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308028	08/02/2003 09:00	MFGARC	

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 AH30902 - EPA 5035 MS										
Matrix Spike (AH30902-MS2)		Source: A308028-02		Prepared: 08/03/03		Analyzed: 08/07/03				
2,2-Dichloropropane	ND	4.3	"	8.46	ND		32-160			QM-01
1,1-Dichloropropene	9.75	4.3	"	8.46	ND	115	56-131			
cis-1,3-Dichloropropene	3.37	4.3	"	8.46	ND	39.8	55-129			QM-01
trans-1,3-Dichloropropene	4.94	4.3	"	8.46	ND	58.4	34-139			
Ethylbenzene	10.7	4.3	"	8.46	9.2	17.7	55-138			QM-01
Hexachlorobutadiene	10.2	4.3	"	8.46	ND	121	16-172			
Isopropylbenzene	9.47	4.3	"	8.46	5.1	51.7	51-137			
p-Isopropyltoluene	10.6	4.3	"	8.46	13	NR	37-143			QM-01
Methyl ethyl ketone	21.0	13	"	17.0	ND	124	32-146			
Methyl isobutyl ketone	14.8	8.7	"	16.9	ND	87.6	29-155			
Methyl tert-butyl ether	6.69	4.3	"	8.46	ND	79.1	50-140			
Methylene chloride	7.63	4.3	"	8.46	ND	90.2	53-137			
Naphthalene	13.0	4.3	"	8.46	14	NR	26-152			QM-01
n-Propylbenzene	11.0	4.3	"	8.46	13	NR	47-143			QM-01
Styrene	8.81	4.3	"	8.46	ND	104	32-150			
1,1,1,2-Tetrachloroethane	10.6	4.3	"	8.46	ND	125	39-153			
1,1,2,2-Tetrachloroethane	8.42	4.3	"	8.46	ND	99.5	42-140			
Tetrachloroethene	15.7	4.3	"	8.46	ND	186	9-206			
Toluene	9.29	4.3	"	8.46	ND	110	50-148			
1,2,3-Trichlorobenzene	10.4	4.3	"	8.46	ND	123	31-148			
1,2,4-Trichlorobenzene	10.7	4.3	"	8.46	ND	126	30-148			
1,1,1-Trichloroethane	9.09	4.3	"	8.46	ND	107	52-132			
1,1,2-Trichloroethane	9.31	4.3	"	8.46	ND	110	39-152			
Trichloroethene	9.85	4.3	"	8.46	ND	116	50-146			
Trichlorofluoromethane	9.97	4.3	"	8.46	ND	118	51-150			
Trichlorotrifluoroethane	9.66	4.3	"	8.33	ND	116	51-138			
1,2,3-Trichloropropane	7.47	4.3	"	8.46	ND	88.3	38-152			

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Tetra Tech/MFG, Inc.

Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 18 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Matrix Spike (AH30902-MS2) and Matrix Spike Dup (AH30902-MSD2).

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Handwritten signature of Karen A. Daly

Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like 4-Chlorotoluene, Dibromochloromethane, etc.

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Karen A. Daly
Project Manager

8/18/03

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308028	08/02/2003 09:00	MFGARC	

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 AH30902 - EPA 5035 MS										
Matrix Spike Dup (AH30902-MSD2)		Source: A308028-02		Prepared: 08/03/03		Analyzed: 08/07/03				
Methylene chloride	7.14	4.3	"	8.16	ND	87.5	53-137	6.64	25	
Naphthalene	14.7	4.3	"	8.16	14	8.58	26-152	12.3	25	QM-01
n-Propylbenzene	12.5	4.3	"	8.16	13	NR	47-143	12.8	25	QM-01
Styrene	7.99	4.3	"	8.16	ND	97.9	32-150	9.76	25	
1,1,1,2-Tetrachloroethane	8.12	4.3	"	8.16	ND	99.5	39-153	26.5	25	QM-04
1,1,2,2-Tetrachloroethane	8.28	4.3	"	8.16	ND	101	42-140	1.68	25	
Tetrachloroethene	10.5	4.3	"	8.16	ND	129	9-206	39.7	25	QM-04
Toluene	7.56	4.3	"	8.16	ND	92.6	50-148	20.5	25	
1,2,3-Trichlorobenzene	9.02	4.3	"	8.16	ND	111	31-148	14.2	25	
1,2,4-Trichlorobenzene	9.18	4.3	"	8.16	ND	112	30-148	15.3	25	
1,1,1-Trichloroethane	8.20	4.3	"	8.16	ND	100	52-132	10.3	25	
1,1,2-Trichloroethane	6.74	4.3	"	8.16	ND	82.6	39-152	32.0	25	QM-04
Trichloroethene	7.32	4.3	"	8.16	ND	89.7	50-146	29.5	25	QM-04
Trichlorofluoromethane	7.37	4.3	"	8.16	ND	90.3	51-150	30.0	25	QM-04
Trichlorotrifluoroethane	7.45	4.3	"	8.03	ND	92.8	51-138	25.8	25	QM-04
1,2,3-Trichloropropane	6.04	4.3	"	8.16	ND	74.0	38-152	21.2	25	
1,2,4-Trimethylbenzene	43.7	4.3	"	8.16	100	NR	43-150	53.3	25	QM-4X
1,3,5-Trimethylbenzene	13.3	4.3	"	8.16	22	NR	47-140	33.7	25	QM-04
Vinyl chloride	9.97	4.3	"	8.16	ND	122	46-150	14.6	25	
m,p-Xylene	19.9	4.3	"	16.3	14	36.2	54-139	1.01	25	QM-01
o-Xylene	7.37	4.3	"	8.16	ND	90.3	58-136	13.2	25	
Xylenes (total)	27.2	4.3	"	24.5	14	53.9	54-139	3.25	25	QM-01
Surrogate: Dibromofluoromethane	3.43		"	4.08		84.1	57-144			
Surrogate: Toluene-d8	3.66		"	4.08		89.7	65-127			
Surrogate: Bromofluorobenzene	3.56		"	4.08		87.3	56-130			

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Tetra Tech/MFG, Inc.

Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 21 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u> A308028	<u>Receipt Date/Time</u> 08/02/2003 09:00	<u>Client Code</u> MFGARC	<u>Client PO/Reference</u>
--------------------------------	--	------------------------------	----------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31123 - General Preparation										
Blank (AH31123-BLK1)										
Oil & Grease (HEM-SG)	ND	50	mg/kg							
				Prepared: 08/08/03	Analyzed: 08/11/03					
LCS (AH31123-BS1)										
Oil & Grease (HEM-SG)	2360	50	mg/kg	2500		94.4	80-120			
				Prepared: 08/08/03	Analyzed: 08/11/03					
LCS Dup (AH31123-BSD1)										
Oil & Grease (HEM-SG)	2420	50	mg/kg	2500		96.8	80-120	2.51	20	
				Prepared: 08/08/03	Analyzed: 08/11/03					
Duplicate (AH31123-DUP1)										
Oil & Grease (HEM-SG)	355	50	mg/kg		620			54.4	200	
				Prepared: 08/08/03	Analyzed: 08/11/03					
Matrix Spike (AH31123-MS1)										
Oil & Grease (HEM-SG)	1950	50	mg/kg	1500	620	88.7	80-120			
				Prepared: 08/08/03	Analyzed: 08/11/03					
Matrix Spike Dup (AH31123-MSD1)										
Oil & Grease (HEM-SG)	2200	50	mg/kg	1500	620	105	80-120	12.0	20	
				Prepared: 08/08/03	Analyzed: 08/11/03					

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Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 22 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308028
Receipt Date/Time: 08/02/2003 09:00
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Blank (AH31525-BLK1), LCS (AH31525-BS1), Matrix Spike (AH31525-MS1), and Matrix Spike Dup (AH31525-MSD1).

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Karen Daly (signature)

Karen A. Daly
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 23 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308028	08/02/2003 09:00	MFGARC	

TPH Gasoline by GCFID/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30712 - EPA 5035 GC										
Blank (AH30712-BLK1)				Prepared & Analyzed: 08/06/03						
TPH as Gasoline	ND	1.0	mg/kg							
Surrogate: 1,4-Bromofluorobenzene	6.00		"	4.00		150	60-156			
LCS (AH30712-BS1)				Prepared: 08/06/03 Analyzed: 08/07/03						
TPH as Gasoline	26.9	1.0	mg/kg	23.2		116	77-139			
Surrogate: 1,4-Bromofluorobenzene	4.40		"	4.00		110	60-156			
LCS Dup (AH30712-BSD1)				Prepared & Analyzed: 08/06/03						
TPH as Gasoline	23.6	1.0	mg/kg	23.2		102	77-139	13.1	20	
Surrogate: 1,4-Bromofluorobenzene	4.80		"	4.00		120	60-156			

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CHEMICAL EXAMINATION REPORT

Page 24 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308028	08/02/2003 09:00	MFGARC	

Notes and Definitions

- A-01 The diesel response is primarily due to kerosene.
- A-02 Kerosene is present at about 11/13 of the diesel response and is included therein.
- G-1 Results in the gasoline organics range are primarily due to overlap from a diesel range product
- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- 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-03 The spike recovery was high for this analyte. The batch was accepted based on a non-detect for the analyte.
- QM-04 High RPD and/or poor percent recovery may reflect sample non-homogeneity.
- 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-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.
- 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

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Project Manager

8/18/03

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CHEMICAL EXAMINATION REPORT

Page 25 of 25

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

Report Date: 08/18/03 14:51
Project No: 030229.8
Project ID: SPI Arcata Sawmill

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A308028	08/02/2003 09:00	MFGARC	

RPD Relative Percent Difference

PQL Practical Quantitation Limit

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Tetra Tech/MFG, Inc.

Temp 2.0°C

COC No. 42864

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

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 92614-9850
 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: D3D229.8 PROJECT NAME: SPI - Arcata Saw Mill PAGE: 1 OF: 1
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ed Conti DATE: 8/1/03
 METHOD OF SHIPMENT: Fed Ex CARRIER/WAYBILL NO: 7916 4482 4844 DESTINATION: Alpha Analytical Lab

SAMPLER IDENTIFICATION		PRESERVATION				CONTAINERS			ANALYSIS REQUEST					
Field Sample Identification	DATE	TIME	MATRIX*	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	Consistency/Method	Handling	Remarks
PD-SE-Bottom	8/1	1500	SO		X	X	X	n	5gm	1	3	TPH-O.M.O. 8015 M oil + grease TPH 1664 file 5030-8015 TPH gasoline +EDC/EDB VOCs 8260B	STANDARD	Silica Gel cleanup for oil + grease
PD-NE3-2'		1500			X	X	X	↓	5gm	B	6	X	X	Use PD-NE3-2' for VOC MS/MSD
PD-SE-Bottom		1500			X	X	X	↓	6.5l	B	1	X	X	please record temp NOTE WHETHER DIESEL
PD-NE3-2'		1500			X	X	X	↓	6.5l	B	1	X	X	CHROM. RESEMBLES KERO PER O.A.R.N. UN 8.403 9AM
														Cooler Temp: 2.0°C

TOTAL NUMBER OF CONTAINERS: (11)

LABORATORY COMMENTS/CONDITION OF SAMPLES

RELINQUISHED BY:

SIGNATURE: [Signature] PRINTED NAME: Orin Plocher COMPANY: MFG, Inc.

SIGNATURE: [Signature] PRINTED NAME: K. Daly COMPANY: Alpha

DATE: 8/1/03 TIME: 1600

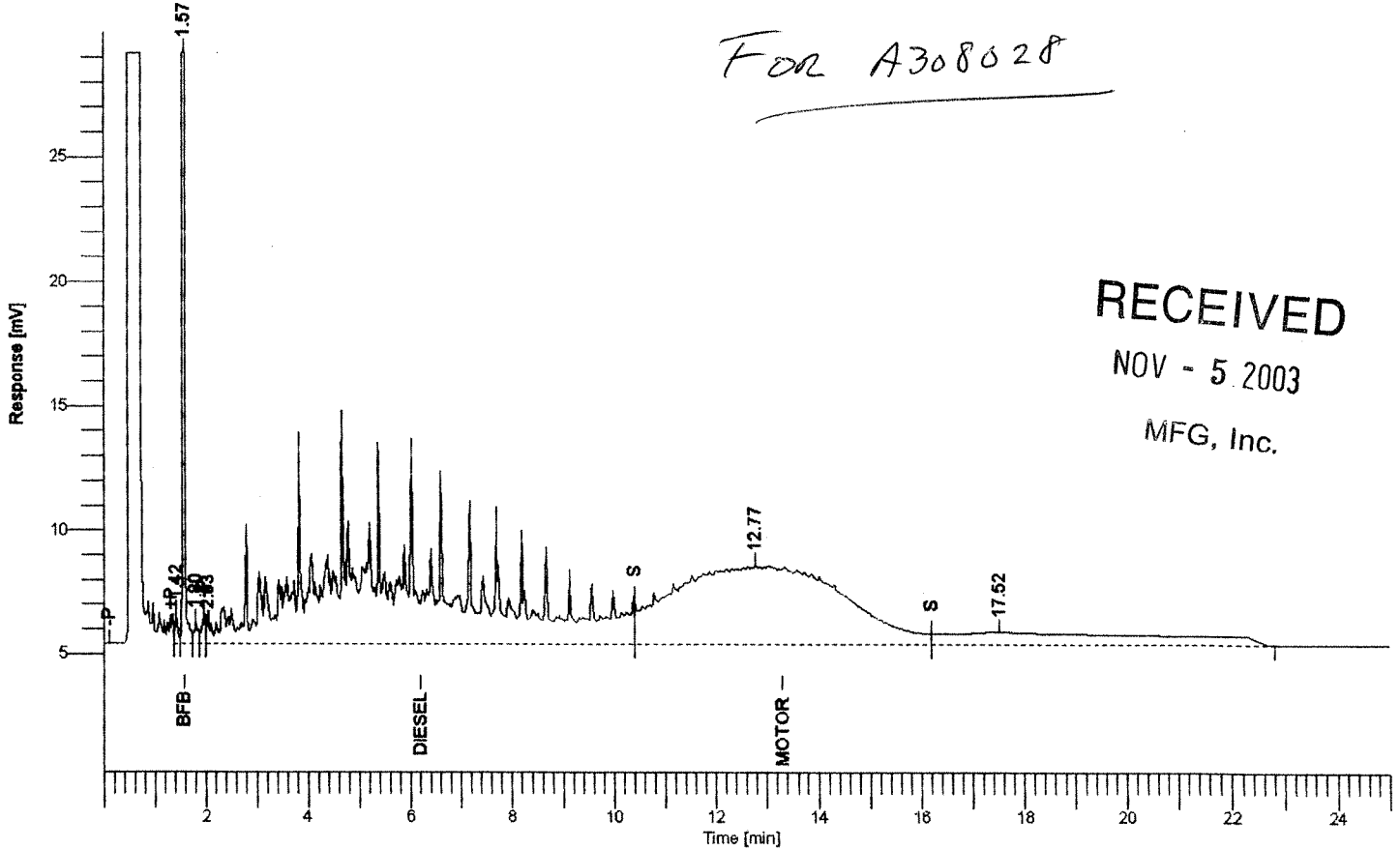
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*KEY: AO - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

Software Version : 6.1.2.0.1:D19 Date : 8/15/03 10:06:
 Sample Name : 20.16 Data Acquisition Time : 8/15/03 9:41:44
 Instrument Name : DsMo AM
 Rack/Vial : 0/0
 Sample Amount : 1.000000 Channel : A
 Cycle : 3 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT876.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_081503.seq



Diesel/Motor Oil

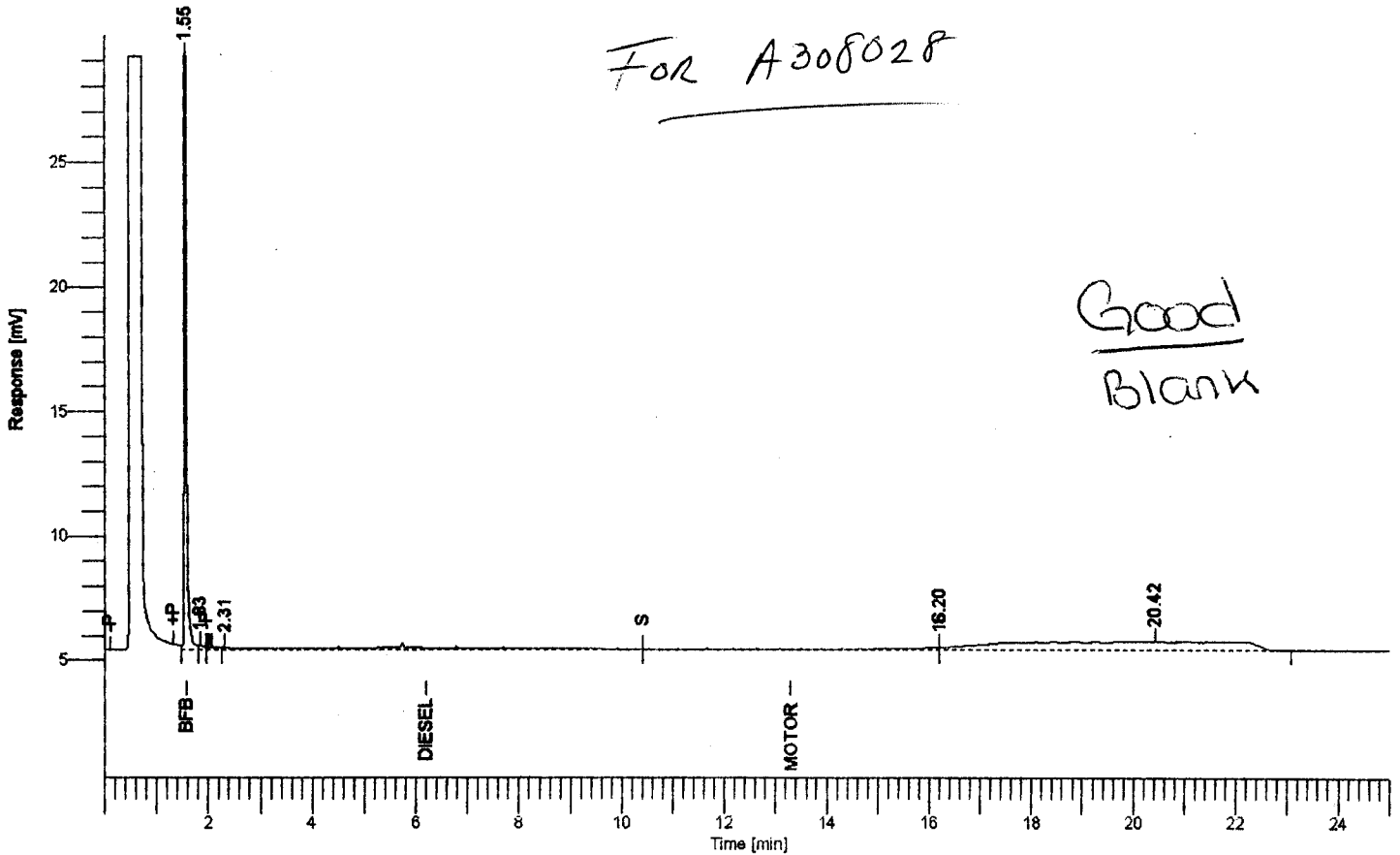
Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.42		0.004	4411	1013
2	1.57	BFB	10.338	163800	63111
3	1.80		0.004	4397	777
4	2.03	Diesel	22.038	923993	759
5	12.77	Motor Oil	22.268	737400	3184
6	17.52		0.152	152299	500
			54.805	1986299	69344

Good Cal ✓

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT876.TX0

Software Version : 6.1.2.0.1:D19 Date : 8/15/03 9:26:0
 Sample Name : 0x Data Acquisition Time : 8/15/03 9:00:58
 Instrument Name : DsMo AM
 Rack/Vial : 0/0
 Sample Amount : 1.000000 Channel : A
 Cycle : 2 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT875.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_081503.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.55	BFB	8.084	121267	41795
2	1.83		0.002	1549	197
3	2.31	Diesel	0.324	40915	109
4	16.20	Motor Oil	0.326	20206	129
5	20.42		0.119	119490	349
			8.855	303426	42579

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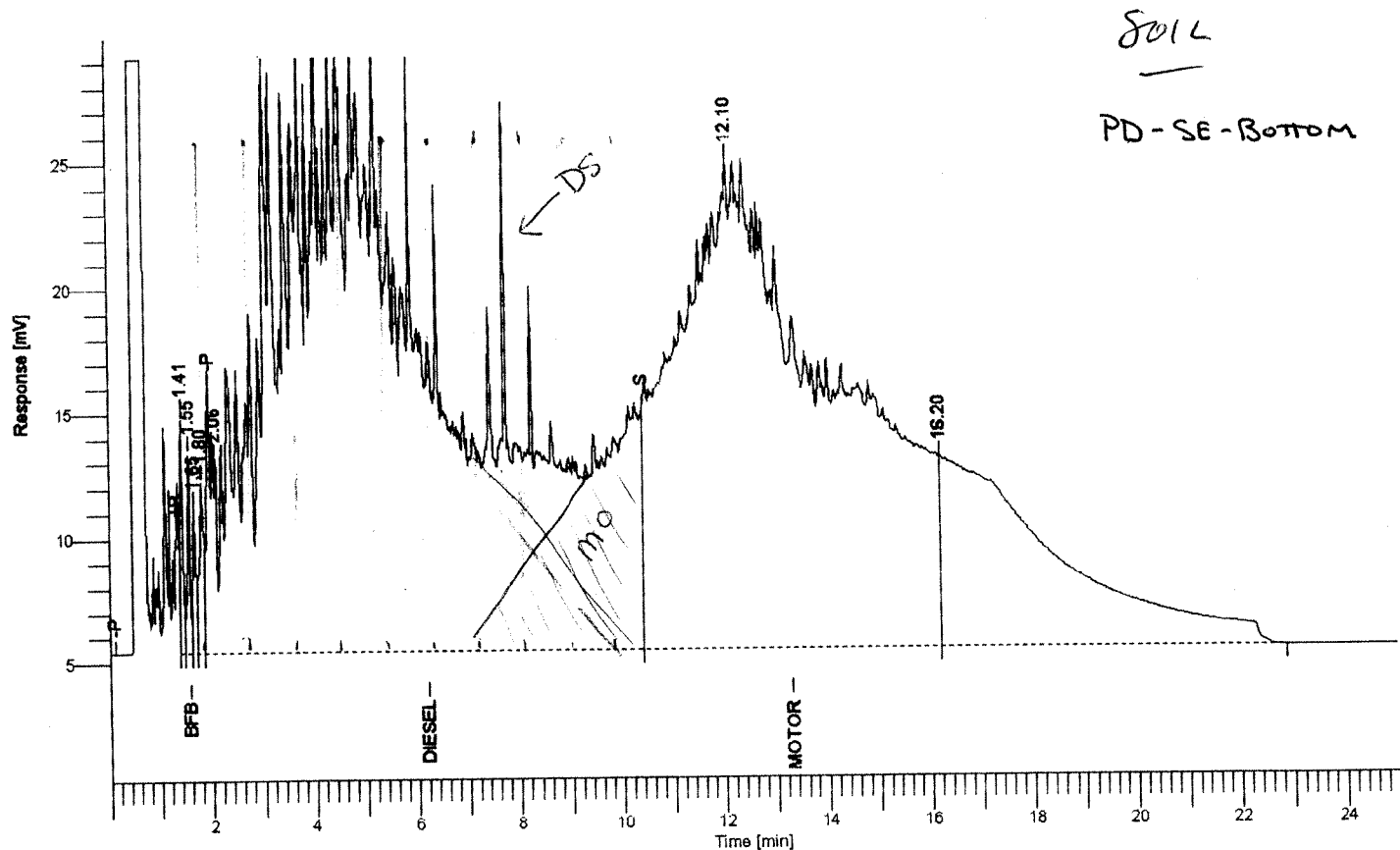
NOV - 5 2003

MFG, Inc.

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT875.TX0

Software Version : 6.1.2.0.1:D19 Date : 8/16/03 12:09:
 Sample Name : A308028-03@30X Data Acquisition Time : 8/15/03 11:44:3
 Instrument Name : DsMo PM
 Rack/Vial : 0/0
 Sample Amount : 1.000000 Channel : A
 Cycle : 10 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT886.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_081503_2.seq



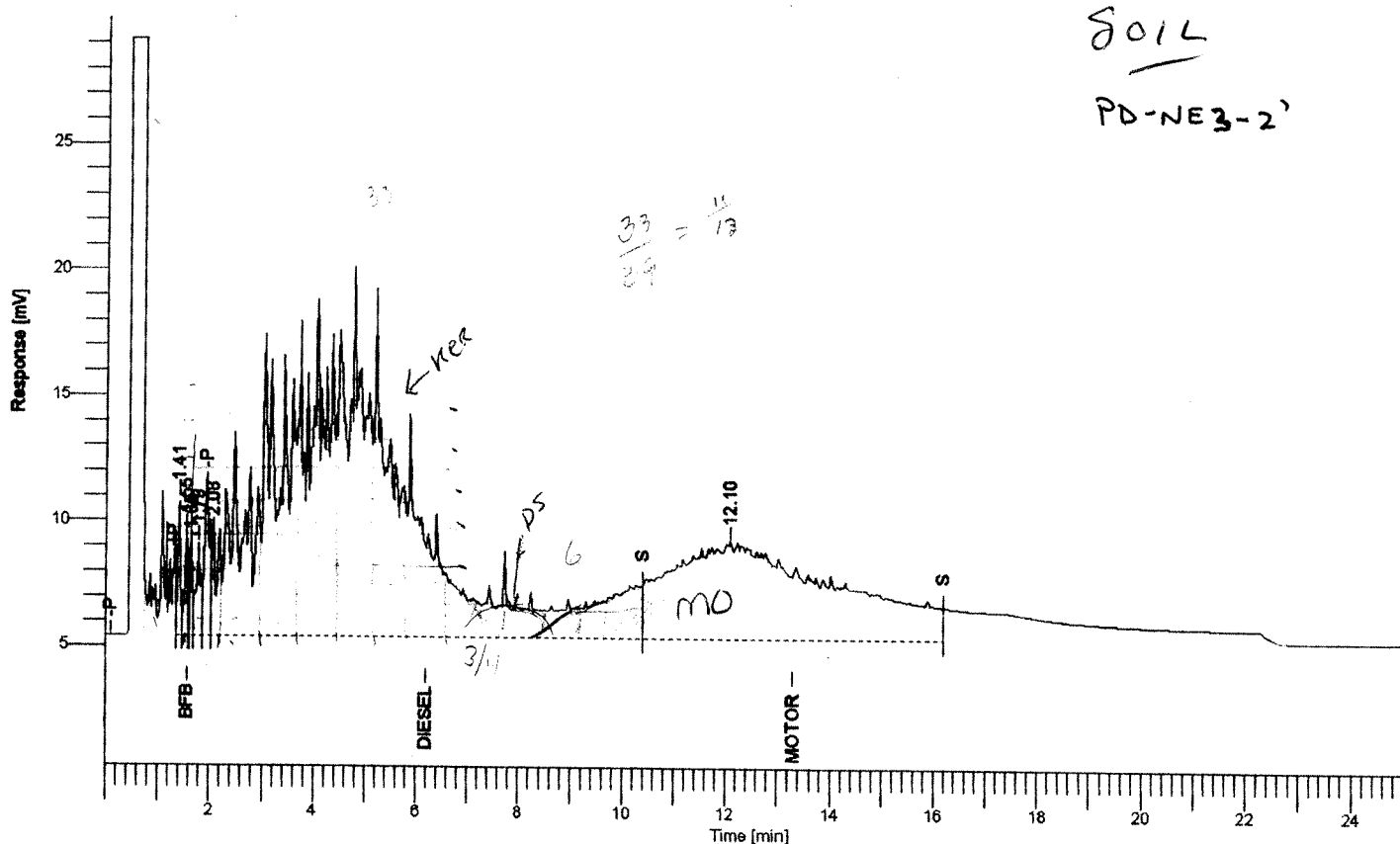
Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.41	BFB	2.354	30920	8579
2	1.55		0.029	28739	7287
3	1.65		0.023	22793	5453
4	1.80		0.043	43024	6638
5	2.06	Diesel	137.902	5933831	7617
6	12.10	Motor Oil	121.677	4193049	19599
7	16.20		1.216	1216302	7685
			263.244	1e+07	62858

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT886.TX0

Software Version : 6.1.2.0.1:D19 Date : 8/18/03 10:58:
 Sample Name : A308028-04@200X Data Acquisition Time : 8/18/03 10:33:4
 Instrument Name : DsMo AM
 Rack/Vial : 0/0
 Sample Amount : 1.000000 Channel : A
 Cycle : 3 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT900.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_081803_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.41	BFB	1.476	19329	4932
2	1.55		0.015	15214	3772
3	1.65		0.012	11921	3216
4	1.79		0.023	23243	3492
5	2.08	Diesel	50.844	2122693	3929
6	12.10	Motor Oil	26.283	870408	3964
			78.653	3062807	23305

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT900.TX0



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208 Mason St. Ukiah, California 95482

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18 August 2003

MFG, Inc - Arcata

Attn: Ed Conti

875 Crescent Way

Arcata, CA 95521

RE: SPI Arcata Sawmill

Work Order: A308177

Enclosed are the results of analyses for samples received by the laboratory on 08/07/03 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Melanie B. Neece For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 1 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number A308177	Receipt Date/Time 08/07/2003 15:30	Client Code MFGARC	Client PO/Reference
-------------------------	---------------------------------------	-----------------------	---------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PD-NW1- Bottom	A308177-01	Soil	08/06/03 14:30	08/07/03 15:30
PD-NW1- Bottom	A308177-02	Soil	08/06/03 14:41	08/07/03 15:30
PD-NW2 - Bottom	A308177-03	Soil	08/06/03 14:50	08/07/03 15:30
PD-NW2- Bottom	A308177-04	Soil	08/06/03 15:05	08/07/03 15:30
Temp Blank	A308177-05	Water	08/06/03 00:00	08/07/03 15:30

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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.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 2 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A308177	08/07/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-NW1- Bottom (A308177-01)		Sample Type: Soil			Sampled: 08/06/03 14:30		
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH31502	08/13/03	08/14/03	1	5200 mg/kg	50
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AH31213	08/12/03	08/13/03	10	220 mg/kg	10 D-09, A-01a
TPH as Motor Oil	"	"	"	"	"	2700 "	20
<i>Surrogate: 1,4-Bromofluorobenzene</i>	"	"	"	"		<i>124 %</i>	<i>21-110 S-06</i>

PD-NW1- Bottom (A308177-02)		Sample Type: Soil			Sampled: 08/06/03 14:41		
Volatile Organic Compounds by EPA Methods 8260B/5035							
Acetone	8260B	AH31515	08/08/03	08/13/03	173.2	ND mg/kg	0.69
Benzene	"	"	"	"	"	ND "	0.17
Bromobenzene	"	"	"	"	"	ND "	0.17
Bromochloromethane	"	"	"	"	"	ND "	0.17
Bromodichloromethane	"	"	"	"	"	ND "	0.17
Bromoform	"	"	"	"	"	ND "	0.17
Bromomethane	"	"	"	"	"	ND "	0.17
n-Butylbenzene	"	"	"	"	"	ND "	0.17
sec-Butylbenzene	"	"	"	"	"	ND "	0.17
tert-Butylbenzene	"	"	"	"	"	ND "	0.17
Carbon tetrachloride	"	"	"	"	"	ND "	0.17
Chlorobenzene	"	"	"	"	"	ND "	0.17
Chloroethane	"	"	"	"	"	ND "	0.17
Chloroform	"	"	"	"	"	ND "	0.17
Chloromethane	"	"	"	"	"	ND "	0.17
2-Chlorotoluene	"	"	"	"	"	0.19 "	0.17
4-Chlorotoluene	"	"	"	"	"	ND "	0.17
Dibromochloromethane	"	"	"	"	"	ND "	0.17
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.17
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.17
Dibromomethane	"	"	"	"	"	ND "	0.17
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.17

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.

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Tetra Tech/MFG, Inc.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 3 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Includes sample details for PD-NW1- Bottom (A308177-02) and a list of Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd) with results for various chemicals like 1,3-Dichlorobenzene, Toluene, etc.

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

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Melanie B. Neece (Signature)

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-NW1- Bottom (A308177-02)		Sample Type: Soil			Sampled: 08/06/03 14:41		
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)							
1,1,1-Trichloroethane	8260B	"	"	08/13/03	"	ND "	0.17
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.17
Trichloroethene	"	"	"	"	"	ND "	0.17
Trichlorofluoromethane	"	"	"	"	"	ND "	0.17
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.17
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.17
1,2,4-Trimethylbenzene	"	"	"	"	"	0.34 "	0.17
1,3,5-Trimethylbenzene	"	"	"	"	"	0.23 "	0.17
Vinyl chloride	"	"	"	"	"	ND "	0.17
m,p-Xylene	"	"	"	"	"	ND "	0.17
o-Xylene	"	"	"	"	"	ND "	0.17
Xylenes (total)	"	"	"	"	"	ND "	0.17
Surrogate: Dibromofluoromethane	"	"	"	"	89.2 %	57-144	
Surrogate: Toluene-d8	"	"	"	"	96.2 %	65-127	
Surrogate: Bromofluorobenzene	"	"	"	"	93.7 %	56-130	

TPH Gasoline by GCFID/5035

TPH as Gasoline	8015GRO	AH31512	08/08/03	08/14/03	1	38 mg/kg	1.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		142 %	60-156

PD-NW2 - Bottom (A308177-03)

Sample Type: Soil

Sampled: 08/06/03 14:50

Conventional Chemistry Parameters by APHA/EPA Methods

Oil & Grease (HEM-SG)	EPA 9071B	AH31502	08/13/03	08/14/03	1	5100 mg/kg	50
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Tetra Tech/MFG, Inc.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 5 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A308177	08/07/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-NW2 - Bottom (A308177-03)		Sample Type: Soil			Sampled: 08/06/03 14:50		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AH31213	08/12/03	08/13/03	20	1700 mg/kg	20 A-01
TPH as Motor Oil	"	"	"	"	"	3900 "	40
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		159 % 21-110	S-02

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PD-NW2- Bottom (A308177-04)		Sample Type: Soil			Sampled: 08/06/03 15:05		
Volatile Organic Compounds by EPA Methods 8260B/5035							
Acetone	8260B	AH31515	08/08/03	08/13/03	173.2	ND mg/kg	0.69
Benzene	"	"	"	"	"	ND "	0.17
Bromobenzene	"	"	"	"	"	ND "	0.17
Bromochloromethane	"	"	"	"	"	ND "	0.17
Bromodichloromethane	"	"	"	"	"	ND "	0.17
Bromoform	"	"	"	"	"	ND "	0.17
Bromomethane	"	"	"	"	"	ND "	0.17
n-Butylbenzene	"	"	"	"	"	0.81 "	0.17
sec-Butylbenzene	"	"	"	"	"	0.50 "	0.17
tert-Butylbenzene	"	"	"	"	"	ND "	0.17
Carbon tetrachloride	"	"	"	"	"	ND "	0.17
Chlorobenzene	"	"	"	"	"	0.87 "	0.17
Chloroethane	"	"	"	"	"	ND "	0.17
Chloroform	"	"	"	"	"	ND "	0.17
Chloromethane	"	"	"	"	"	ND "	0.17
2-Chlorotoluene	"	"	"	"	"	0.28 "	0.17
4-Chlorotoluene	"	"	"	"	"	0.32 "	0.17
Dibromochloromethane	"	"	"	"	"	ND "	0.17
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.17
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.17
Dibromomethane	"	"	"	"	"	ND "	0.17
1,2-Dichlorobenzene	"	"	"	"	"	0.58 "	0.17
1,3-Dichlorobenzene	"	"	"	"	"	0.20 "	0.17
1,4-Dichlorobenzene	"	"	"	"	"	1.2 "	0.17
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.17

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Tetra Tech/MFG, Inc.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308177
Receipt Date/Time: 08/07/2003 15:30
Client Code: MFGARC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd) including various chlorinated hydrocarbons and benzene derivatives.

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Melanie B. Neece (Signature)

Tetra Tech/MFG, Inc.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 7 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE	
PD-NW2- Bottom (A308177-04)		Sample Type: Soil			Sampled: 08/06/03 15:05			
Volatile Organic Compounds by EPA Methods 8260B/5035 (cont'd)								
Trichlorofluoromethane	8260B	"	"	08/13/03	"	ND "	0.17	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.17	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.17	
1,2,4-Trimethylbenzene	"	"	"	"	"	1.9 "	0.17	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.17	
Vinyl chloride	"	"	"	"	"	ND "	0.17	
m,p-Xylene	"	"	"	"	"	ND "	0.17	
o-Xylene	"	"	"	"	"	0.27 "	0.17	
Xylenes (total)	"	"	"	"	"	0.27 "	0.17	
Surrogate: Dibromofluoromethane	"	"	"	"	"	88.3 %	57-144	
Surrogate: Toluene-d8	"	"	"	"	"	87.2 %	65-127	
Surrogate: Bromofluorobenzene	"	"	"	"	"	96.9 %	56-130	
TPH Gasoline by GCFID/5035								
TPH as Gasoline	8015GRO	AH31512	08/08/03	08/14/03	1	610 mg/kg	1.0	G-1
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	"	138 %	60-156	
Temp Blank (A308177-05)		Sample Type: Water			Sampled: 08/06/03 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Temperature	Temperature	AH30818	08/07/03	08/07/03	1	3.4 °C		

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Tetra Tech/MFG, Inc.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 8 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

SourceResult

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 AH31515 - EPA 5035 MS										
Blank (AH31515-BLK1)										
					Prepared: 08/12/03 Analyzed: 08/13/03					
Acetone	ND	0.69	mg/kg							
Benzene	ND	0.17	"							
Bromobenzene	ND	0.17	"							
Bromochloromethane	ND	0.17	"							
Bromodichloromethane	ND	0.17	"							
Bromoform	ND	0.17	"							
Bromomethane	ND	0.17	"							
n-Butylbenzene	ND	0.17	"							
sec-Butylbenzene	ND	0.17	"							
tert-Butylbenzene	ND	0.17	"							
Carbon tetrachloride	ND	0.17	"							
Chlorobenzene	ND	0.17	"							
Chloroethane	ND	0.17	"							
Chloroform	ND	0.17	"							
Chloromethane	ND	0.17	"							
2-Chlorotoluene	ND	0.17	"							
4-Chlorotoluene	ND	0.17	"							
Dibromochloromethane	ND	0.17	"							
1,2-Dibromo-3-chloropropane	ND	0.17	"							
1,2-Dibromoethane (EDB)	ND	0.17	"							
Dibromomethane	ND	0.17	"							
1,2-Dichlorobenzene	ND	0.17	"							
1,3-Dichlorobenzene	ND	0.17	"							
1,4-Dichlorobenzene	ND	0.17	"							
Dichlorodifluoromethane	ND	0.17	"							
1,1-Dichloroethane	ND	0.17	"							

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.

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Tetra Tech/MFG, Inc.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

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 AH31515 - EPA 5035 MS										
Blank (AH31515-BLK1)				Prepared: 08/12/03 Analyzed: 08/13/03						
1,2-Dichloroethane	ND	0.17	"							
1,1-Dichloroethene	ND	0.17	"							
cis-1,2-Dichloroethene	ND	0.17	"							
trans-1,2-Dichloroethene	ND	0.17	"							
1,2-Dichloropropane	ND	0.17	"							
1,3-Dichloropropane	ND	0.17	"							
2,2-Dichloropropane	ND	0.17	"							
1,1-Dichloropropene	ND	0.17	"							
cis-1,3-Dichloropropene	ND	0.17	"							
trans-1,3-Dichloropropene	ND	0.17	"							
Ethylbenzene	ND	0.17	"							
Hexachlorobutadiene	ND	0.17	"							
Isopropylbenzene	ND	0.17	"							
p-Isopropyltoluene	ND	0.17	"							
Methyl ethyl ketone	ND	0.52	"							
Methyl isobutyl ketone	ND	0.35	"							
Methyl tert-butyl ether	ND	0.17	"							
Methylene chloride	ND	0.17	"							
Naphthalene	ND	0.17	"							
n-Propylbenzene	ND	0.17	"							
Styrene	ND	0.17	"							
1,1,1,2-Tetrachloroethane	ND	0.17	"							
1,1,1,2,2-Tetrachloroethane	ND	0.17	"							
Tetrachloroethene	ND	0.17	"							
Toluene	ND	0.17	"							
1,2,3-Trichlorobenzene	ND	0.17	"							
1,2,4-Trichlorobenzene	ND	0.17	"							

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.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03

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CHEMICAL EXAMINATION REPORT

Page 10 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number A308177 Receipt Date/Time 08/07/2003 15:30 Client Code MFGARC Client PO/Reference

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Blank (AH31515-BLK1) and LCS (AH31515-BS1) with various chemical analytes and their corresponding results.

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.

Melanie B. Neece (Signature)

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Melanie B. Neece For Sheri L. Speaks Project Manager

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CHEMICAL EXAMINATION REPORT

Page 11 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A308177	08/07/2003 15:30	MFGARC	

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 AH31515 - EPA 5035 MS										
LCS (AH31515-BS1)				Prepared: 08/12/03 Analyzed: 08/13/03						
Carbon tetrachloride	1.01	0.17	"	0.865		117	57-133			
Chlorobenzene	0.831	0.17	"	0.865		96.1	76-117			
Chloroethane	1.23	0.17	"	0.865		142	59-128			QM-03
Chloroform	0.977	0.17	"	0.865		113	60-128			
Chloromethane	0.913	0.17	"	0.865		106	45-140			
2-Chlorotoluene	0.812	0.17	"	0.865		93.9	67-127			
4-Chlorotoluene	0.809	0.17	"	0.865		93.5	65-125			
Dibromochloromethane	0.759	0.17	"	0.865		87.7	56-141			
1,2-Dibromo-3-chloropropane	0.828	0.17	"	0.865		95.7	61-134			
1,2-Dibromoethane (EDB)	0.818	0.17	"	0.865		94.6	70-132			
Dibromomethane	0.949	0.17	"	0.865		110	66-123			
1,2-Dichlorobenzene	0.849	0.17	"	0.865		98.2	70-121			
1,3-Dichlorobenzene	0.814	0.17	"	0.865		94.1	65-124			
1,4-Dichlorobenzene	0.842	0.17	"	0.865		97.3	71-120			
Dichlorodifluoromethane	0.875	0.17	"	0.865		101	52-145			
1,1-Dichloroethane	0.636	0.17	"	0.865		73.5	58-136			
1,2-Dichloroethane	0.951	0.17	"	0.865		110	64-117			
1,1-Dichloroethene	1.03	0.17	"	0.865		119	66-131			
cis-1,2-Dichloroethene	1.02	0.17	"	0.865		118	57-131			
trans-1,2-Dichloroethene	1.01	0.17	"	0.865		117	59-127			
1,2-Dichloropropane	0.925	0.17	"	0.865		107	72-121			
1,3-Dichloropropane	0.842	0.17	"	0.865		97.3	70-135			
2,2-Dichloropropane	1.08	0.17	"	0.865		125	38-152			
1,1-Dichloropropene	1.02	0.17	"	0.865		118	73-124			
cis-1,3-Dichloropropene	0.954	0.17	"	0.865		110	66-132			
trans-1,3-Dichloropropene	0.766	0.17	"	0.865		88.6	55-133			
Ethylbenzene	0.830	0.17	"	0.865		96.0	71-125			

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Tetra Tech/MFG, Inc.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 12 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

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 AH31515 - EPA 5035 MS										
LCS (AH31515-BS1)										
				Prepared: 08/12/03		Analyzed: 08/13/03				
Hexachlorobutadiene	0.949	0.17	"	0.865		110	68-131			
Isopropylbenzene	0.927	0.17	"	0.865		107	66-125			
p-Isopropyltoluene	0.714	0.17	"	0.865		82.5	62-120			
Methyl ethyl ketone	1.92	0.52	"	1.74		110	58-138			
Methyl isobutyl ketone	1.62	0.35	"	1.73		93.6	59-133			
Methyl tert-butyl ether	0.608	0.17	"	0.865		70.3	71-127			QL-03
Methylene chloride	0.954	0.17	"	0.865		110	60-128			
Naphthalene	0.743	0.17	"	0.865		85.9	58-133			
n-Propylbenzene	0.766	0.17	"	0.865		88.6	67-124			
Styrene	0.755	0.17	"	0.865		87.3	65-126			
1,1,1,2-Tetrachloroethane	0.764	0.17	"	0.865		88.3	65-136			
1,1,2,2-Tetrachloroethane	0.743	0.17	"	0.865		85.9	40-149			
Tetrachloroethene	0.869	0.17	"	0.865		100	52-148			
Toluene	0.875	0.17	"	0.865		101	72-126			
1,2,3-Trichlorobenzene	0.795	0.17	"	0.865		91.9	67-124			
1,2,4-Trichlorobenzene	0.842	0.17	"	0.865		97.3	63-125			
1,1,1-Trichloroethane	1.03	0.17	"	0.865		119	55-134			
1,1,2-Trichloroethane	0.818	0.17	"	0.865		94.6	61-138			
Trichloroethene	1.00	0.17	"	0.865		116	74-129			
Trichlorofluoromethane	0.934	0.17	"	0.865		108	61-132			
Trichlorotrifluoroethane	0.927	0.17	"	0.852		109	52-138			
1,2,3-Trichloropropane	0.790	0.17	"	0.865		91.3	66-132			
1,2,4-Trimethylbenzene	0.778	0.17	"	0.865		89.9	66-128			
1,3,5-Trimethylbenzene	0.750	0.17	"	0.865		86.7	65-123			
Vinyl chloride	1.01	0.17	"	0.865		117	59-135			
m,p-Xylene	1.59	0.17	"	1.73		91.9	67-128			
o-Xylene	0.807	0.17	"	0.865		93.3	67-126			

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Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308177
Receipt Date/Time: 08/07/2003 15:30
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AH31515 - EPA 5035 MS and LCS Dup (AH31515-BSD1).

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

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Melanie B. Neece (Signature)

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Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

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 AH31515 - EPA 5035 MS										
LCS Dup (AH31515-BSD1)				Prepared: 08/12/03 Analyzed: 08/13/03						
1,2-Dichlorobenzene	0.861	0.17	"	0.865		99.5	70-121	1.40	25	
1,3-Dichlorobenzene	0.826	0.17	"	0.865		95.5	65-124	1.46	25	
1,4-Dichlorobenzene	0.847	0.17	"	0.865		97.9	71-120	0.592	25	
Dichlorodifluoromethane	0.776	0.17	"	0.865		89.7	52-145	12.0	25	
1,1-Dichloroethane	0.643	0.17	"	0.865		74.3	58-136	1.09	25	
1,2-Dichloroethane	0.935	0.17	"	0.865		108	64-117	1.70	25	
1,1-Dichloroethene	0.979	0.17	"	0.865		113	66-131	5.08	25	
cis-1,2-Dichloroethene	0.991	0.17	"	0.865		115	57-131	2.88	25	
trans-1,2-Dichloroethene	0.992	0.17	"	0.865		115	59-127	1.80	25	
1,2-Dichloropropane	0.909	0.17	"	0.865		105	72-121	1.74	25	
1,3-Dichloropropane	0.880	0.17	"	0.865		102	70-135	4.41	25	
2,2-Dichloropropane	1.05	0.17	"	0.865		121	38-152	2.82	25	
1,1-Dichloropropene	0.994	0.17	"	0.865		115	73-124	2.58	25	
cis-1,3-Dichloropropene	0.951	0.17	"	0.865		110	66-132	0.315	25	
trans-1,3-Dichloropropene	0.795	0.17	"	0.865		91.9	55-133	3.72	25	
Ethylbenzene	0.864	0.17	"	0.865		99.9	71-125	4.01	25	
Hexachlorobutadiene	0.925	0.17	"	0.865		107	68-131	2.56	25	
Isopropylbenzene	0.928	0.17	"	0.865		107	66-125	0.108	25	
p-Isopropyltoluene	0.774	0.17	"	0.865		89.5	62-120	8.06	25	
Methyl ethyl ketone	1.75	0.52	"	1.74		101	58-138	9.26	25	
Methyl isobutyl ketone	1.70	0.35	"	1.73		98.3	59-133	4.82	25	
Methyl tert-butyl ether	0.653	0.17	"	0.865		75.5	71-127	7.14	25	
Methylene chloride	0.930	0.17	"	0.865		108	60-128	2.55	25	
Naphthalene	0.868	0.17	"	0.865		100	58-133	15.5	25	
n-Propylbenzene	0.793	0.17	"	0.865		91.7	67-124	3.46	25	
Styrene	0.779	0.17	"	0.865		90.1	65-126	3.13	25	
1,1,1,2-Tetrachloroethane	0.852	0.17	"	0.865		98.5	65-136	10.9	25	

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Tetra Tech/MFG, Inc.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 15 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308177, Receipt Date/Time: 08/07/2003 15:30, Client Code: MFGARC, Client PO/Reference:

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

Table with 11 columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag

Batch AH31515 - EPA 5035 MS

LCS Dup (AH31515-BSD1)

Prepared: 08/12/03 Analyzed: 08/13/03

Main data table listing various analytes such as 1,1,2,2-Tetrachloroethane, Toluene, and Xylenes with their respective results and limits.

Matrix Spike (AH31515-MS1)

Source: A308177-04

Prepared: 08/12/03 Analyzed: 08/13/03

Table listing matrix spike results for Acetone, Benzene, Bromobenzene, Bromochloromethane, and Bromodichloromethane.

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Melanie B. Neece (Signature)

Melanie B. Neece For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes data for various compounds like Bromoform, Chlorobenzene, etc., and a 'Matrix Spike' section.

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Melanie B. Neece For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 17 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

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 AH31515 - EPA 5035 MS										
Matrix Spike (AH31515-MS1) Source: A308177-04 Prepared: 08/12/03 Analyzed: 08/13/03										
2,2-Dichloropropane	1.11	0.17	"	0.865	ND	128	32-160			
1,1-Dichloropropene	1.09	0.17	"	0.865	ND	126	56-131			
cis-1,3-Dichloropropene	1.01	0.17	"	0.865	ND	117	55-129			
trans-1,3-Dichloropropene	0.875	0.17	"	0.865	ND	101	34-139			
Ethylbenzene	0.970	0.17	"	0.865	ND	112	55-138			
Hexachlorobutadiene	1.22	0.17	"	0.865	ND	141	16-172			
Isopropylbenzene	1.05	0.17	"	0.865	0.21	97.1	51-137			
p-Isopropyltoluene	1.19	0.17	"	0.865	0.23	111	37-143			
Methyl ethyl ketone	2.01	0.52	"	1.74	ND	98.3	32-146			
Methyl isobutyl ketone	1.92	0.35	"	1.73	ND	111	29-155			
Methyl tert-butyl ether	1.04	0.17	"	0.865	ND	120	50-140			
Methylene chloride	0.906	0.17	"	0.865	ND	105	53-137			
Naphthalene	2.11	0.17	"	0.865	1.7	47.4	26-152			
n-Propylbenzene	1.12	0.17	"	0.865	0.37	86.7	47-143			
Styrene	0.935	0.17	"	0.865	ND	108	32-150			
1,1,1,2-Tetrachloroethane	0.913	0.17	"	0.865	ND	106	39-153			
1,1,1,2,2-Tetrachloroethane	0.866	0.17	"	0.865	ND	100	42-140			
Tetrachloroethane	0.975	0.17	"	0.865	ND	113	9-206			
Toluene	0.991	0.17	"	0.865	ND	115	50-148			
1,2,3-Trichlorobenzene	1.38	0.17	"	0.865	ND	160	31-148			QM-01
1,2,4-Trichlorobenzene	1.54	0.17	"	0.865	ND	178	30-148			QM-01
1,1,1-Trichloroethane	1.01	0.17	"	0.865	ND	117	52-132			
1,1,2-Trichloroethane	0.908	0.17	"	0.865	ND	105	39-152			
Trichloroethene	1.05	0.17	"	0.865	ND	121	50-146			
Trichlorofluoromethane	0.921	0.17	"	0.865	ND	106	51-150			
Trichlorotrifluoroethane	0.935	0.17	"	0.852	ND	110	51-138			
1,2,3-Trichloropropane	0.911	0.17	"	0.865	ND	105	38-152			

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Melanie B. Neece For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 18 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number: A308177
Receipt Date/Time: 08/07/2003 15:30
Client Code: MFGARC
Client PO/Reference:

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

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Matrix Spike (AH31515-MS1) and Matrix Spike Dup (AH31515-MSD1).

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Melanie B. Neece (Signature)

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 19 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

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 AH31515 - EPA 5035 MS										
Matrix Spike Dup (AH31515-MSD1)	Source: A308177-04 Prepared: 08/12/03 Analyzed: 08/13/03									
4-Chlorotoluene	1.04	0.17	"	0.865	0.32	83.2	39-149	1.90	25	
Dibromochloromethane	0.721	0.17	"	0.865	ND	83.4	48-135	14.9	25	
1,2-Dibromo-3-chloropropane	0.972	0.17	"	0.865	ND	112	48-139	8.92	25	
1,2-Dibromoethane (EDB)	0.928	0.17	"	0.865	ND	107	36-156	0.430	25	
Dibromomethane	0.921	0.17	"	0.865	ND	106	61-128	3.52	25	
1,2-Dichlorobenzene	1.17	0.17	"	0.865	0.58	68.2	36-156	0.00	25	
1,3-Dichlorobenzene	0.958	0.17	"	0.865	0.20	87.6	45-138	2.17	25	
1,4-Dichlorobenzene	1.39	0.17	"	0.865	1.2	22.0	60-136	0.00	25	QM-01
Dichlorodifluoromethane	0.684	0.17	"	0.865	ND	79.1	24-189	3.73	25	
1,1-Dichloroethane	0.878	0.17	"	0.865	ND	102	58-142	0.228	25	
1,2-Dichloroethane	0.965	0.17	"	0.865	ND	112	55-125	0.104	25	
1,1-Dichloroethene	0.989	0.17	"	0.865	ND	114	54-147	4.06	25	
cis-1,2-Dichloroethene	0.996	0.17	"	0.865	ND	115	52-129	2.38	25	
trans-1,2-Dichloroethene	0.937	0.17	"	0.865	ND	108	61-120	8.48	25	
1,2-Dichloropropane	0.932	0.17	"	0.865	ND	108	61-123	5.43	25	
1,3-Dichloropropane	0.946	0.17	"	0.865	ND	109	45-150	0.842	25	
2,2-Dichloropropane	1.04	0.17	"	0.865	ND	120	32-160	6.51	25	
1,1-Dichloropropene	1.04	0.17	"	0.865	ND	120	56-131	4.69	25	
cis-1,3-Dichloropropene	0.970	0.17	"	0.865	ND	112	55-129	4.04	25	
trans-1,3-Dichloropropene	0.871	0.17	"	0.865	ND	101	34-139	0.458	25	
Ethylbenzene	0.963	0.17	"	0.865	ND	111	55-138	0.724	25	
Hexachlorobutadiene	1.22	0.17	"	0.865	ND	141	16-172	0.00	25	
Isopropylbenzene	1.02	0.17	"	0.865	0.21	93.6	51-137	2.90	25	
p-Isopropyltoluene	1.19	0.17	"	0.865	0.23	111	37-143	0.00	25	
Methyl ethyl ketone	2.25	0.52	"	1.74	ND	112	32-146	11.3	25	
Methyl isobutyl ketone	2.11	0.35	"	1.73	ND	122	29-155	9.43	25	
Methyl tert-butyl ether	1.08	0.17	"	0.865	ND	125	50-140	3.77	25	

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Tetra Tech/MFG, Inc.

Melanie B. Neece For Sheri L. Speaks
Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

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 AH31515 - EPA 5035 MS										
Matrix Spike Dup (AH31515-MSD1) Source: A308177-04 Prepared: 08/12/03 Analyzed: 08/13/03										
Methylene chloride	0.899	0.17	"	0.865	ND	104	53-137	0.776	25	
Naphthalene	2.32	0.17	"	0.865	1.7	71.7	26-152	9.48	25	
n-Propylbenzene	1.11	0.17	"	0.865	0.37	85.5	47-143	0.897	25	
Styrene	0.968	0.17	"	0.865	ND	112	32-150	3.47	25	
1,1,1,2-Tetrachloroethane	0.873	0.17	"	0.865	ND	101	39-153	4.48	25	
1,1,2,2-Tetrachloroethane	0.856	0.17	"	0.865	ND	99.0	42-140	1.16	25	
Tetrachloroethene	1.27	0.17	"	0.865	ND	147	9-206	26.3	25	QM-04
Toluene	0.960	0.17	"	0.865	ND	111	50-148	3.18	25	
1,2,3-Trichlorobenzene	1.42	0.17	"	0.865	ND	164	31-148	2.86	25	QM-01
1,2,4-Trichlorobenzene	1.59	0.17	"	0.865	ND	184	30-148	3.19	25	QM-01
1,1,1-Trichloroethane	0.942	0.17	"	0.865	ND	109	52-132	6.97	25	
1,1,2-Trichloroethane	0.908	0.17	"	0.865	ND	105	39-152	0.00	25	
Trichloroethene	1.01	0.17	"	0.865	ND	117	50-146	3.88	25	
Trichlorofluoromethane	0.840	0.17	"	0.865	ND	97.1	51-150	9.20	25	
Trichlorotrifluoroethane	0.863	0.17	"	0.852	ND	101	51-138	8.01	25	
1,2,3-Trichloropropane	0.892	0.17	"	0.865	ND	103	38-152	2.11	25	
1,2,4-Trimethylbenzene	1.45	0.17	"	0.865	1.9	NR	43-150	0.00	25	QM-01
1,3,5-Trimethylbenzene	1.12	0.17	"	0.865	ND	129	47-140	0.889	25	
Vinyl chloride	0.760	0.17	"	0.865	ND	87.9	46-150	12.0	25	
m,p-Xylene	1.83	0.17	"	1.73	ND	106	54-139	0.00	25	
o-Xylene	0.954	0.17	"	0.865	0.27	79.1	58-136	2.38	25	
Xylenes (total)	2.78	0.17	"	2.60	0.27	96.5	54-139	1.07	25	
Surrogate: Dibromofluoromethane	4.17		"	4.33		96.3	57-144			
Surrogate: Toluene-d8	4.31		"	4.33		99.5	65-127			
Surrogate: Bromofluorobenzene	4.40		"	4.33		102	56-130			

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Project Manager

8/18/03



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CHEMICAL EXAMINATION REPORT

Page 21 of 25

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

Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31502 - General Preparation										
Blank (AH31502-BLK1)				Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	ND	50	mg/kg							
LCS (AH31502-BS1)				Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	2470	50	mg/kg	2500		98.8	80-120			
Duplicate (AH31502-DUP1)				Source: A308011-03 Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	38100	50	mg/kg		25000			41.5	20	QM-04
Matrix Spike (AH31502-MS1)				Source: A308011-03 Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	27700	50	mg/kg	1500	25000	180	80-120			QM-4X
Matrix Spike Dup (AH31502-MSD1)				Source: A308011-03 Prepared: 08/13/03 Analyzed: 08/14/03						
Oil & Grease (HEM-SG)	28300	50	mg/kg	1500	25000	220	80-120	2.14	20	QM-4X

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CHEMICAL EXAMINATION REPORT

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MFG, Inc - Arcata
875 Crescent Way
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Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number Receipt Date/Time Client Code Client PO/Reference
A308177 08/07/2003 15:30 MFGARC

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 AH31213 - CA LUFT - orb shaker

Blank (AH31213-BLK1)

Prepared & Analyzed: 08/12/03

TPH as Diesel	ND	1.0	mg/kg							
TPH as Motor Oil	ND	2.0	"							
Surrogate: 1,4-Bromofluorobenzene	11.1		"	12.4		89.5	21-110			

LCS (AH31213-BS1)

Prepared & Analyzed: 08/12/03

TPH as Diesel	47.6	1.0	mg/kg	41.8		114	63-126			
TPH as Motor Oil	46.6	2.0	"	41.8		111	57-139			
Surrogate: 1,4-Bromofluorobenzene	12.5		"	12.4		101	21-110			

Matrix Spike (AH31213-MS1)

Source: A308105-04

Prepared: 08/12/03 Analyzed: 08/13/03

TPH as Diesel	42.7	1.0	mg/kg	41.8	ND	100	61-134			
TPH as Motor Oil	43.6	2.0	"	41.8	ND	102	61-126			
Surrogate: 1,4-Bromofluorobenzene	10.9		"	12.4		87.9	21-110			

Matrix Spike Dup (AH31213-MSD1)

Source: A308105-04

Prepared: 08/12/03 Analyzed: 08/13/03

TPH as Diesel	42.7	1.0	mg/kg	41.8	ND	100	61-134	0.00	20	
TPH as Motor Oil	43.8	2.0	"	41.8	ND	103	61-126	0.458	20	
Surrogate: 1,4-Bromofluorobenzene	10.9		"	12.4		87.9	21-110			

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Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A308177	08/07/2003 15:30	MFGARC	

TPH Gasoline by GCFID/5035 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31512 - EPA 5035 GC										
Blank (AH31512-BLK1)				Prepared & Analyzed: 08/14/03						
TPH as Gasoline	ND	1.0	mg/kg							
Surrogate: 1,4-Bromofluorobenzene	4.89		"	4.00		122	60-156			
LCS (AH31512-BS1)				Prepared & Analyzed: 08/14/03						
TPH as Gasoline	26.9	1.0	mg/kg	23.2		116	77-139			
Surrogate: 1,4-Bromofluorobenzene	4.92		"	4.00		123	60-156			
LCS Dup (AH31512-BSD1)				Prepared & Analyzed: 08/14/03						
TPH as Gasoline	26.3	1.0	mg/kg	23.2		113	77-139	2.26	20	QM-10
Surrogate: 1,4-Bromofluorobenzene	4.77		"	4.00		119	60-156			QM-10

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Report Date: 08/18/03 15:23
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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A308177	08/07/2003 15:30	MFGARC	

Notes and Definitions

- A-01 KEROSENE IS PRESENT AT ABOUT 2/15 OF THE DIESEL RESPONSE AND IS INCLUDED THERE IN.
- A-01a KEROSENE MAY BE PRESENT AT ABOUT 1/20 OR LESS OF THE DIESEL RESPONSE, WHICH ITSELF IS DUE TO OVERLAP OF MOTOR OIL.
- D-09 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- G-1 Results in the gasoline organics range are primarily due to overlap from a diesel range product
- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- 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-03 The spike recovery was high for this analyte. The batch was accepted based on a non-detect for the analyte.
- QM-04 High RPD and/or poor percent recovery may reflect sample non-homogeneity.
- 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.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- 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

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CHEMICAL EXAMINATION REPORT

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MFG, Inc - Arcata
875 Crescent Way
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Report Date: 08/18/03 15:23
Project No: 030229.8
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A308177	08/07/2003 15:30	MFGARC	

NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
PQL Practical Quantitation Limit

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Tetra Tech/MFG, Inc.

MFG, INC.

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Boulder, CO 80301
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CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS
COC No. **46206**

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AUG 21 2003

Tetra Tech/MFG, Inc.

PROJECT NO: **030224.8**

PROJECT NAME: **SPI - Arcata Sawmill**

PAGE: **1** OF: **1**

SAMPLER (Signature): *OmniBlom*

PROJECT MANAGER: **Ed Conti**

DATE: **8/16/03**

METHOD OF SHIPMENT: **carrier**

CARRIERWAYBILL NO:

DESTINATION: **Alpha Analytical Lab**

SAMPLES		ANALYSIS REQUEST																	
A308177	Field Sample Identification	Sample		Preservation			Containers		Consents/Method			Handling		Remarks					
		DATE	TIME	HCl	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	TPH-disc	TPH-dial	TPH-gas		TPH-liquid	HOLD	RUSH	STANDARD	
-1	PD-NW1-Bo Horn	8/16/03	2:30	So	So	✓	6mm B	I	✓	✓	✓	✓	✓	✓	✓	✓	✓	① Silica gel clean up for oil/grease ② Recase no k cooler Temp	
-2	PD-NW1-Bo Horn	8/16/03	2:41	So	So	✓	5mm of 3	I	✓	✓	✓	✓	✓	✓	✓	✓	✓	③ Run Kerosene standard w/TPH	
-3	PD-NW2-Bo Horn	8/16/03	2:50	So	So	✓	6mm B	I	✓	✓	✓	✓	✓	✓	✓	✓	✓	Picsel sample	
-4	PD-NW2-Bo Horn	8/16/03	3:05	So	So	✓	5mm of 6	I	✓	✓	✓	✓	✓	✓	✓	✓	✓	④ use PD-NW2-Bo Horn for ms/ms	
	Temp Blank	8/16/03	2:15	Ag	Ag	✓	4mm G	I	✓	✓	✓	✓	✓	✓	✓	✓	✓		
TOTAL NUMBER OF CONTAINERS										12		LABORATORY COMMENTS/CONDITION OF SAMPLES						Cooler Temp: 18	

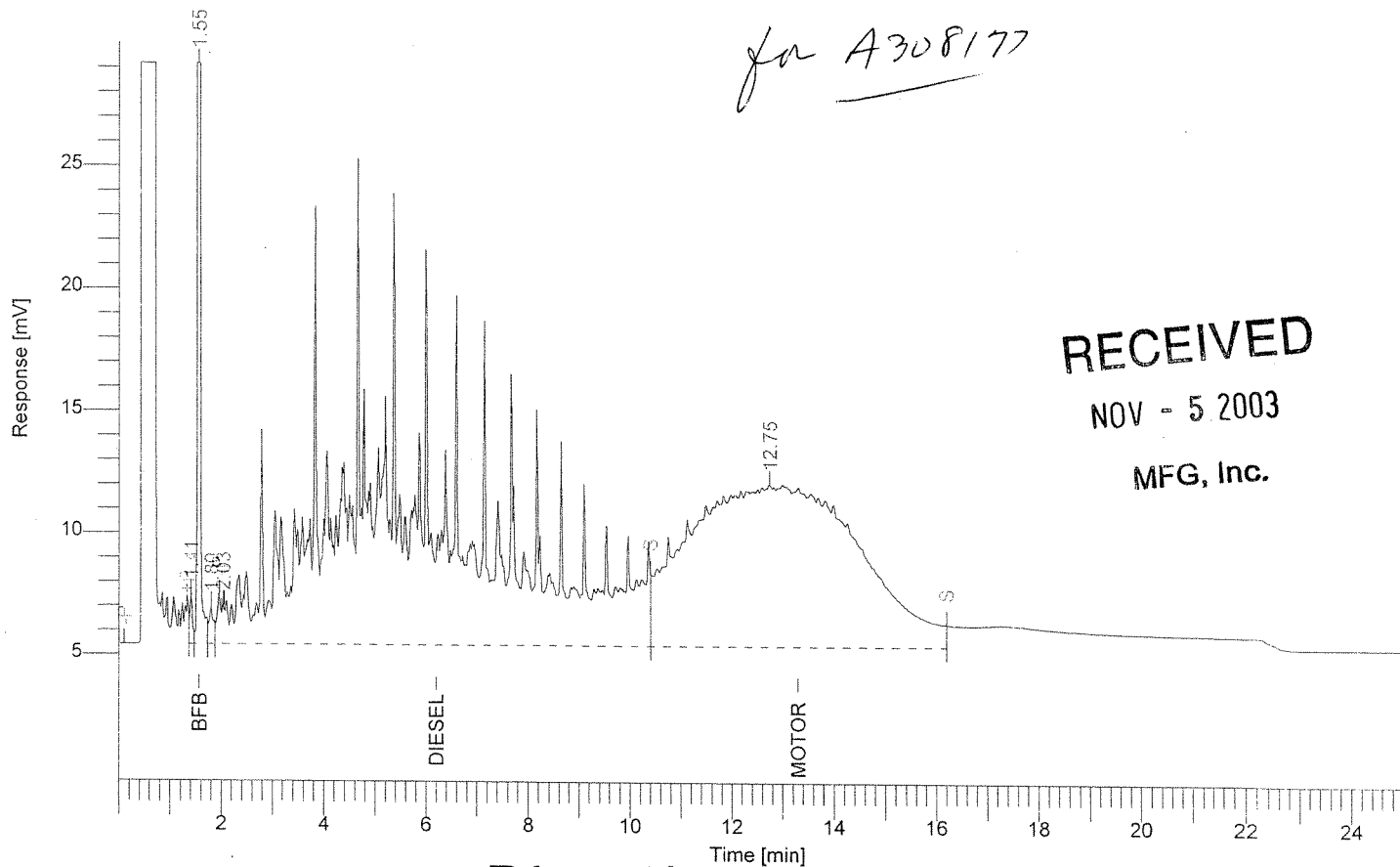
RELINQUISHED BY:			RECEIVED BY:				
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<i>OmniBlom</i>	Omni Blom	MFG	8/17/03	10:50 AM	<i>John Taylor</i>	John Taylor	Alpha
<i>John Taylor</i>	John Taylor	Alpha	8/17/03	15:30	<i>Sharon Spelko</i>	Sharon Spelko	Alpha Laboratory

*KEY Matrix: AO - 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

Software Version : 6.1.2.0.1:D19
 Sample Name : AH31213-BS1
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 22

Date : 8/13/03 5:21:01 PM
 Data Acquisition Time : 8/12/03 11:56:48 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT821.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_081203.idx



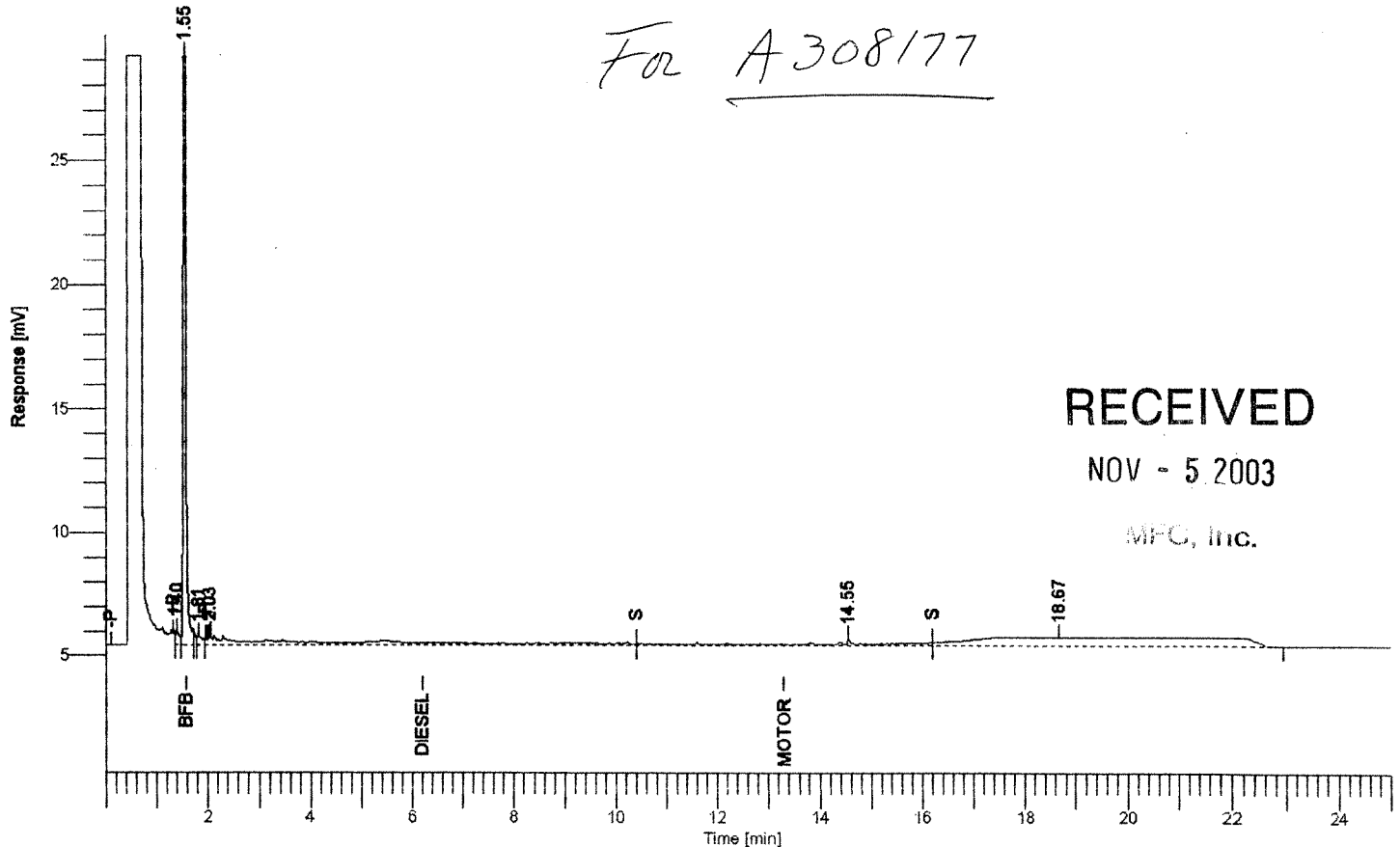
Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.41		0.008	7754	1887
2	1.55	BFB	12.539	209133	68902
3	1.80		0.009	9456	1468
4	2.03	Diesel	47.577	1985195	1533
5	12.75	Motor Oil	46.646	1553505	6670
			106.779	3765043	80460

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT821.TX0

Software Version : 6.1.2.0.1:D19 Date : 8/14/03 10:25:
 Sample Name : AH31213-BLK1 Data Acquisition Time : 8/12/03 11:16:0
 Instrument Name : DsMo PM
 Rack/Vial : 0/0
 Sample Amount : 1.000000 Channel : A
 Cycle : 21 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\atdat820.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_081203.idx



Diesel/Motor Oil

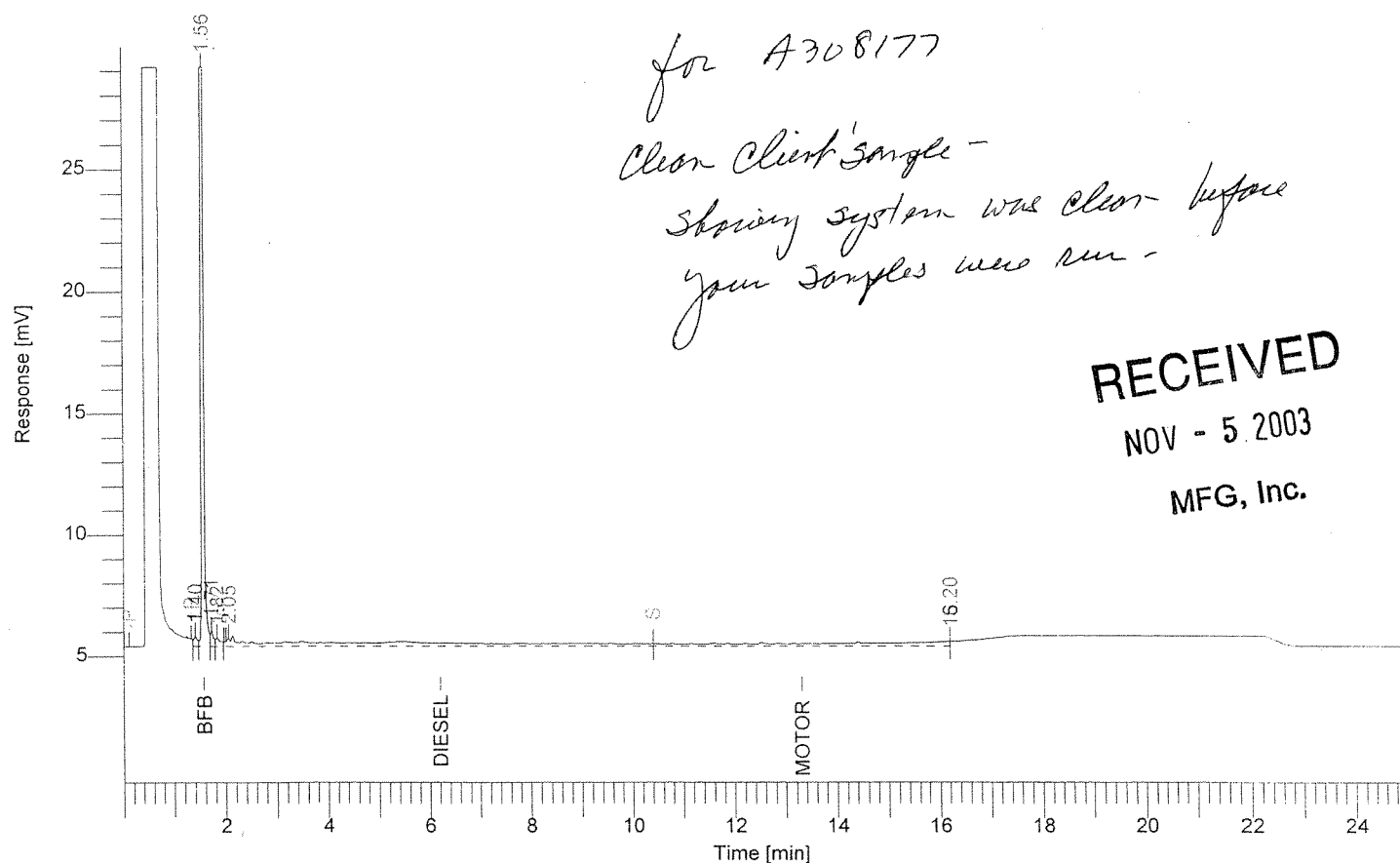
Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.40		0.003	3257	543
2	1.55	BFB	11.069	178433	61478
3	1.81		0.003	3253	382
4	2.03	Diesel	0.983	67456	381
5	14.55	Motor Oil	0.727	33160	299
6	18.67		0.127	126670	369
			12.912	412229	63452

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\atdat820.TX0

Software Version : 6.1.2.0.1:D19
 Sample Name : A308105-04
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 23

Date : 8/13/03 5:21:03 PM
 Data Acquisition Time : 8/13/03 12:37:20 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT822.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_081203.idx



Diesel/Motor Oil

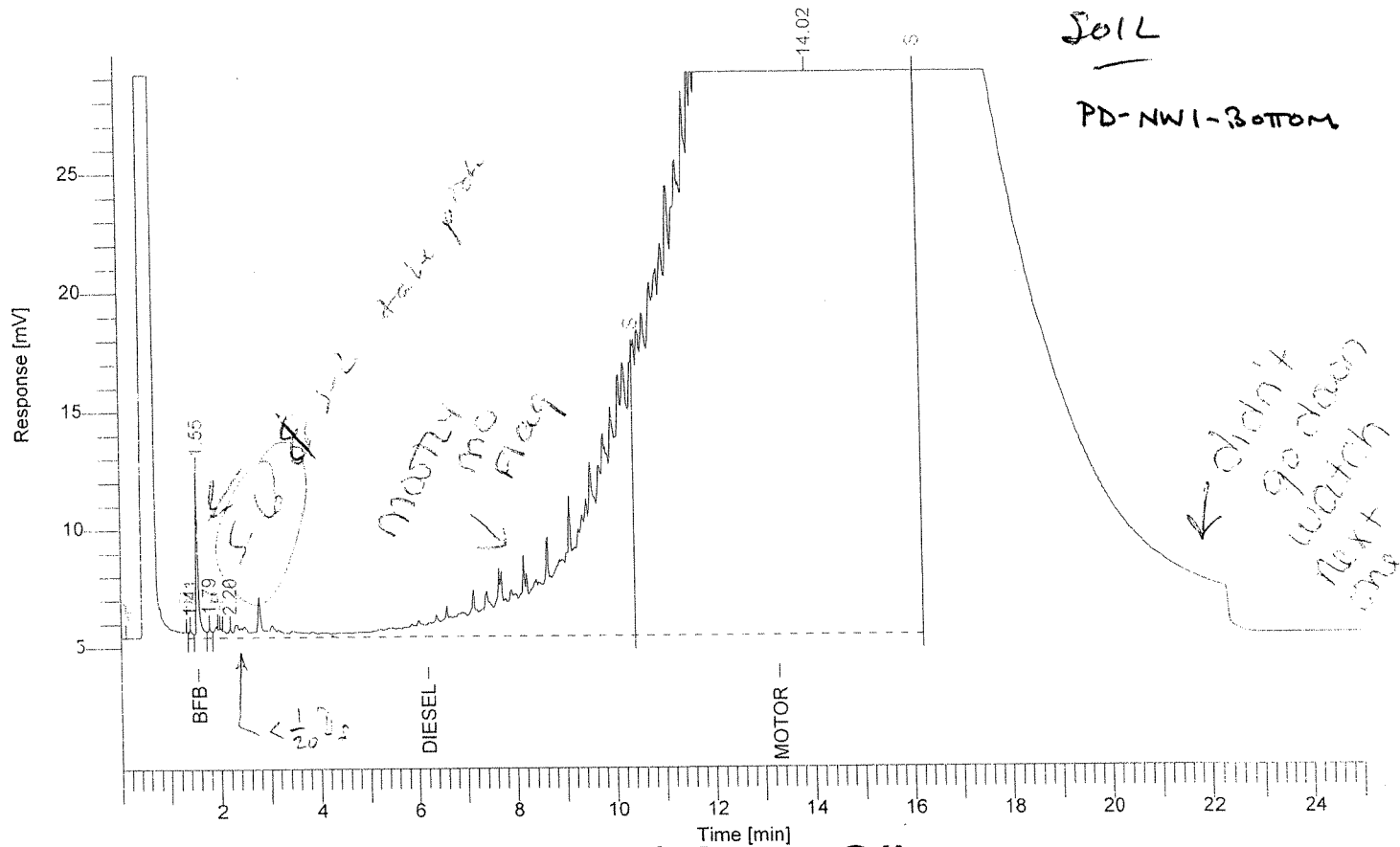
Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.40		0.002	1951	367
2	1.56	BFB	11.754	192534	62107
3	1.71		0.003	2553	589
4	1.82		0.003	2548	321
5	2.05	Diesel	0.896	63968	317
6	16.20	Motor Oil	0.841	36848	198
			13.498	300403	63900

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT822.TX0

Software Version : 6.1.2.0.1:D19
 Sample Name : A308177-01@10X
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 29

Date : 8/13/03 5:21:17 PM
 Data Acquisition Time : 8/13/03 4:41:13 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT828.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_081203.idx



Diesel/Motor Oil

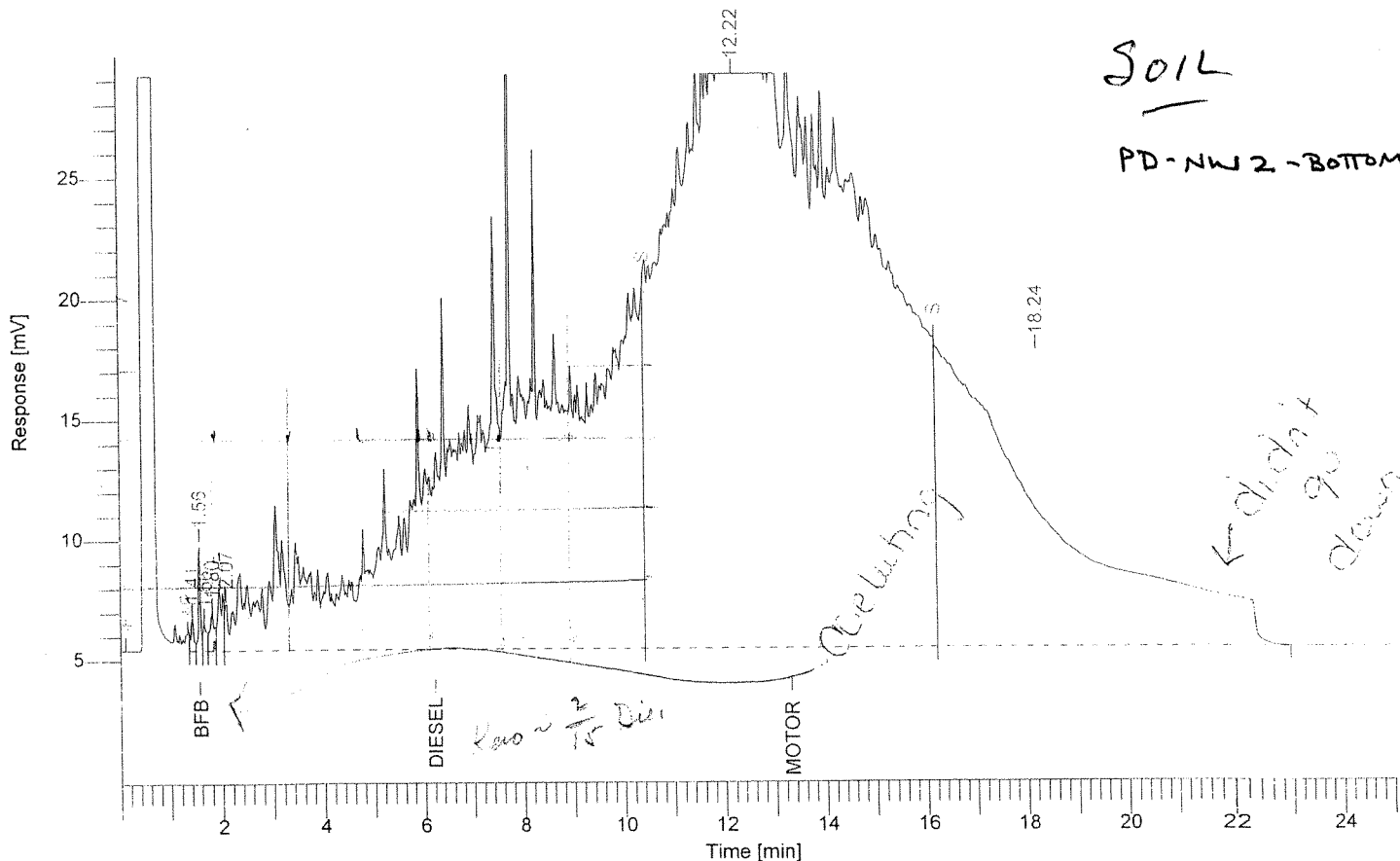
Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.41		0.002	1911	320
2	1.55	BFB	1.541	20173	5469
3	1.79		0.002	2296	380
4	2.20	Diesel	22.469	941723	364
5	14.02	Motor Oil	274.351	1e+07	39517
			298.366	1e+07	46049

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT828.TX0

Software Version : 6.1.2.0.1:D19
 Sample Name : A308177-03@20X
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 30

Date : 8/13/03 5:21:19 PM
 Data Acquisition Time : 8/13/03 5:21:51 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT829.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_081203.idx



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.41		0.005	5434	1248
2	1.56	BFB	0.984	13101	3975
3	1.66		0.006	5601	1114
4	1.80		0.009	9190	1475
5	2.07	Diesel	83.354	3512750	1915
6	12.22	Motor Oil	195.091	6962205	28519
7	18.24		1.914	1914392	5592
			281.364	1e+07	43837

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT829.TX0

APPENDIX C

**Laboratory Report and Chain-of-Custody Record
for the Soil Sample Analyzed by Zymax**



REPORT OF ANALYTICAL RESULTS

Client: Ed Conti
MFG, Inc.
180 Howard St., Ste. 200
San Francisco, CA 94105

Lab Number: 32743-1
Collected: 07/31/03
Received: 08/12/03
Matrix: Soil

Project: SPI-Arcata/Task #14
Project Number:
Collected by: Client

Sample Description:
PD-NE2-1.5'
Analyzed: 08/18/03
Method: See Below

CONSTITUENT	PQL* mg/kg	RESULT** mg/kg
-------------	---------------	-------------------

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C10-C18)	2000.	5800.
Total Petroleum Hydrocarbons (C18-C40)	2000.	12000.

Percent Surrogate Recovery ***

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

***Surrogate not detected due to dilution.

- Note: Analyzed by GC/MS Combination.
- Note: Extracted by EPA 3550 on 08/12/03.
- Note: TPH (C10-C18) quantitated against kerosene.
- Note: TPH (C18-C40) quantitated against motor oil.

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

SS4714
MSD #4
32743-1t.xls
MN/jdm/kg/yl/eg/pe

RECEIVED

OCT 31 2003

MFG, Inc.

Client: Ed Conti
MFG, Inc.
180 Howard St., Ste. 200
San Francisco, CA 94105

Lab Number: 32743-1
Collected: 07/31/03
Received: 08/12/03
Matrix: Soil

Project: SPI-Arcata/Task #14
Project Number:
Collected by: Client

Sample Description:
PD-NE2-1.5'
Analyzed: 08/16/03
Method: EPA 1664A

CONSTITUENT	PQL* mg/kg	RESULT** mg/kg
-------------	---------------	-------------------

OIL & GREASE - SILICA GEL TREATED

Oil and Grease	200.	13000.
----------------	------	--------

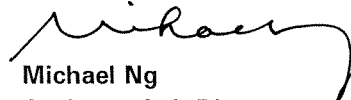
ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

O&G213
32743-1o.xls
MN/jdm/kg/mm/dg

Submitted by,
ZymaX envirotechnology, inc.


Michael Ng
Assistant Lab Director

RECEIVED

SEP 15 2003

MFG, inc.

Client: Ed Conti
MFG, Inc.
180 Howard St., Ste. 200
San Francisco, CA 94105

Lab Number: 32743-1
Collected: 07/31/03
Received: 08/12/03
Matrix: Soil

Project: SPI-Arcata/Task #14
Project Number:
Collected by: Client

Sample Description:
PD-NE2-1.5'
Analyzed: 09/03/03
Method: See Below

CONSTITUENT	PQL* mg/kg	RESULT** mg/kg
-------------	---------------	-------------------

TOTAL PETROLEUM HYDROCARBONS-SILICA GEL TREATED

Total Petroleum Hydrocarbons (C10-C18)	1000.	4100.
Total Petroleum Hydrocarbons (C18-C40)	1000.	8400.

Percent Surrogate Recovery ***

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

***Surrogate not detected due to dilution.

Note: Analyzed by GC/MS Combination.

Note: Extracted by EPA 3550 on 08/12/03.

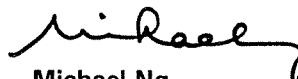
Note: Cleanup performed on extract by EPA 3630 (Silica Gel) on 09/02/03.

Note: TPH (C10-C18) quantitated against kerosene.

Note: TPH (C18-C40) quantitated against motor oil.

SS4714/SG1694
MSD #5
32743-1s.xls
MN/jdm/kg/yl/sd/pe

Submitted by,
ZymaX envirotechnology, inc.


Michael Ng
Assistant Lab Director

RECEIVED

OCT 31 2003

MFG, Inc.

Client:
ZyMaX envirotechnology, inc.
71 Zaca Lane, Suite 110
San Luis Obispo, CA 93401

Lab Number: QS SS4714
Collected:
Received:
Matrix: Soil

Project:
Project Number:
Collected by:

Sample Description:
Quality Assurance Spike
Analyzed: 08/13/03
Method: See Below

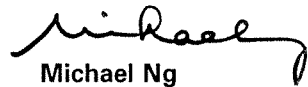
CONSTITUENT	Amount Spiked mg/kg	Amount Recovered mg/kg	Percent Recovery
TOTAL PETROLEUM HYDROCARBONS			
Total Petroleum Hydrocarbons	40.	39.	98
Percent Surrogate Recovery			110

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by GC/MS Combination.
Note: Extracted by EPA 3550 on 08/12/03.
Note: Analytical range is C10-C40.
Note: Spiked with diesel fuel.

SS4714
MSD #4
SS4714q.xls
MN/jdm/kg/yl/eg/hb

Submitted by,
ZyMaX envirotechnology, inc.


Michael Ng
Assistant Lab Director

RECEIVED
OCT 31 2003

Client:
ZyMaX envirotechnology, inc.
71 Zaca Lane, Suite 110
San Luis Obispo, CA 93401

Lab Number: QSD SS4714
Collected:
Received:
Matrix: Soil

Project:
Project Number:
Collected by:

Sample Description:
Quality Assurance Spike Duplicate
Analyzed: 08/14/03
Method: See Below

CONSTITUENT	Amount Spiked mg/kg	Amount Recovered mg/kg	Percent Recovery	Relative Percent Difference*
-------------	------------------------	---------------------------	---------------------	---------------------------------

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	40.	32.	80	20
Percent Surrogate Recovery			97	

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

*Relative Percent Difference of the spike and spike duplicate

Note: Analyzed by GC/MS Combination.

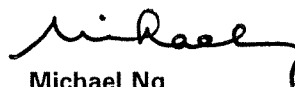
Note: Re-extracted by EPA 3550 on 08/14/03.

Note: Analytical range is C10-C40.

Note: Spiked with diesel fuel.

SS4714
MSD #3
SS4714q.xls
MN/jdm/kg/yl/eg/hb

Submitted by,
ZyMaX envirotechnology, inc.



Michael Ng
Assistant Lab Director

RECEIVED

OCT 3 1 2003

MFG, Inc.

Client:
ZyMaX envirotechnology, inc.
71 Zaca Lane, Suite 110
San Luis Obispo, CA 93401

Lab Number: BLK SS4714
Collected:
Received:
Matrix: Soil

Project:
Project Number:
Collected by:

Sample Description:
Method Blank
Analyzed: 08/13/03
Method: See Below

CONSTITUENT	PQL* mg/kg	RESULT** mg/kg
-------------	---------------	-------------------

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	10.	ND
Percent Surrogate Recovery		101

ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by GC/MS Combination.

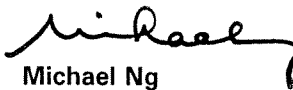
Note: Extracted by EPA 3550 on 08/12/03.

Note: Analytical range is C10-C40.

Note: TPH quantitated against diesel fuel.

SS4714
MSD #4
SS4714b.xls
MN/jdm/kg/yl/eg/hb

Submitted by,
ZyMaX envirotechnology, inc.


Michael Ng
Assistant Lab Director

RECEIVED

OCT 31 2003

envirotechnology, inc.



Client: Ed Conti
MFG, Inc.
180 Howard St., Ste. 200
San Francisco, CA 94105

Lab Number: 32743-1DUP
Collected: 07/31/03
Received: 08/12/03
Matrix: Soil

Project: SPI-Arcata/Task #14
Project Number:
Collected by: Client

Sample Description:
PD-NE2-1.5'
Analyzed: 08/16/03
Method: EPA 1664A

CONSTITUENT	PQL* mg/kg	RESULT** mg/kg
-------------	---------------	-------------------

OIL & GREASE - SILICA GEL TREATED

Oil and Grease	200.	10000.
----------------	------	--------

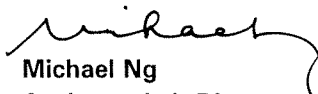
ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

O&G213
32743-1d.xls
MN/jdm/kg/mm/dg

Submitted by,
ZymaX envirotechnology, inc.


Michael Ng
Assistant Lab Director

RECEIVED

SEP 15 2003

MFG, Inc.

Client:
ZymaX envirotechnology, inc.
71 Zaca Lane
San Luis Obispo, CA 93401

Lab Number: QS O&G213
Collected:
Received:
Matrix: Soil

Project:
Project Number:
Collected by:

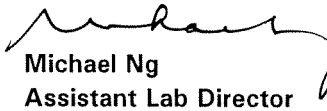
Sample Description:
Quality Assurance Spike
Analyzed: 08/16/03
Method: EPA 1664A

CONSTITUENT	Amount Spiked mg/kg	Amount Recovered mg/kg	Percent Recovery
Oil and Grease	800.	828	104

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

O&G213
O&G213q.xls
MN/jdm/kg/mm/dg

Submitted by,
ZymaX envirotechnology, inc.


Michael Ng
Assistant Lab Director

RECEIVED
SEP 15 2003
MFG, Inc.

Client:
ZymaX envirotechnology, inc.
71 Zaca Lane
San Luis Obispo, CA 93401

Lab Number: QSD O&G213
Collected:
Received:
Matrix: Soil

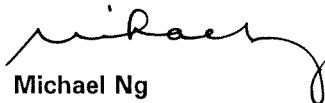
Project:
Project Number:
Collected by:

Sample Description: Quality Assurance Spike Duplicate
Analyzed: 08/16/03
Method: EPA 1664A

CONSTITUENT	Amount Spiked mg/kg	Amount Recovered mg/kg	Percent Recovery	Relative Percent Difference*
Oil and Grease	800.	888	111	7

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
*Relative Percent Difference of the spike and spike duplicate

O&G213
O&G213q.xls
MN/jdm/kg/mm/dg

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

RECEIVED
SEP 15 2003
MFG, Inc.

Client:
ZyMaX envirotechnology, inc.
71 Zaca Lane, Suite 110
San Luis Obispo, CA 93401

Lab Number: BLK Q&G213
Collected:
Received:
Matrix: Soil

Project:
Project Number:
Collected by:

Sample Description:
Method Blank
Analyzed: 08/16/03
Method: EPA 1664A

CONSTITUENT	PQL* mg/kg	RESULT** mg/kg
-------------	---------------	-------------------

Oil and Grease	200.	ND
----------------	------	----

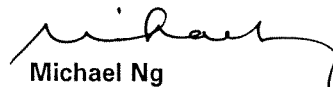
ZyMaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

Q&G213
Q&G213b.xls
MN/jdm/kg/mm/dg

Submitted by,
ZyMaX envirotechnology, inc.


Michael Ng
Assistant Lab Director

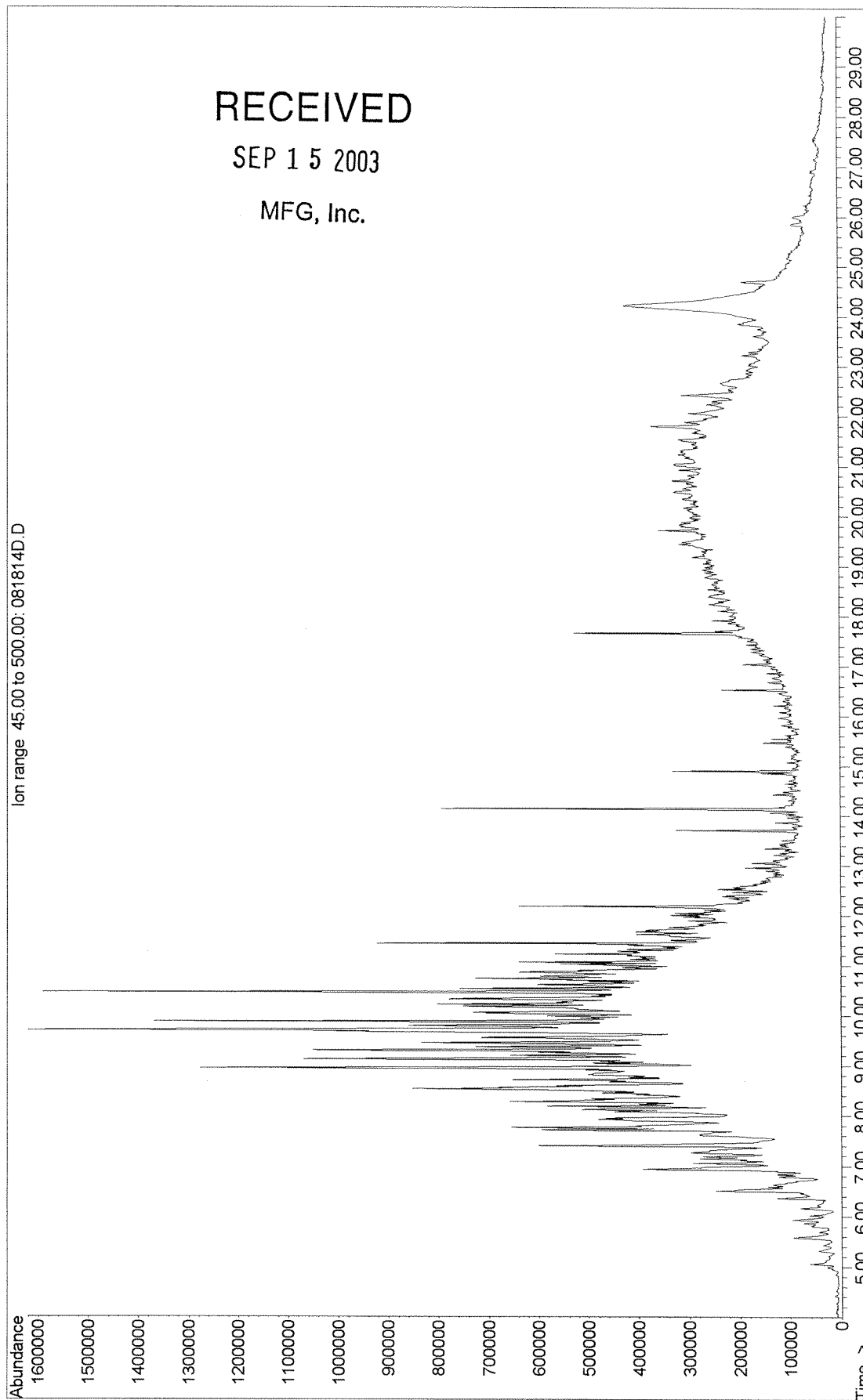
RECEIVED

SEP 15 2003

MFG, Inc.

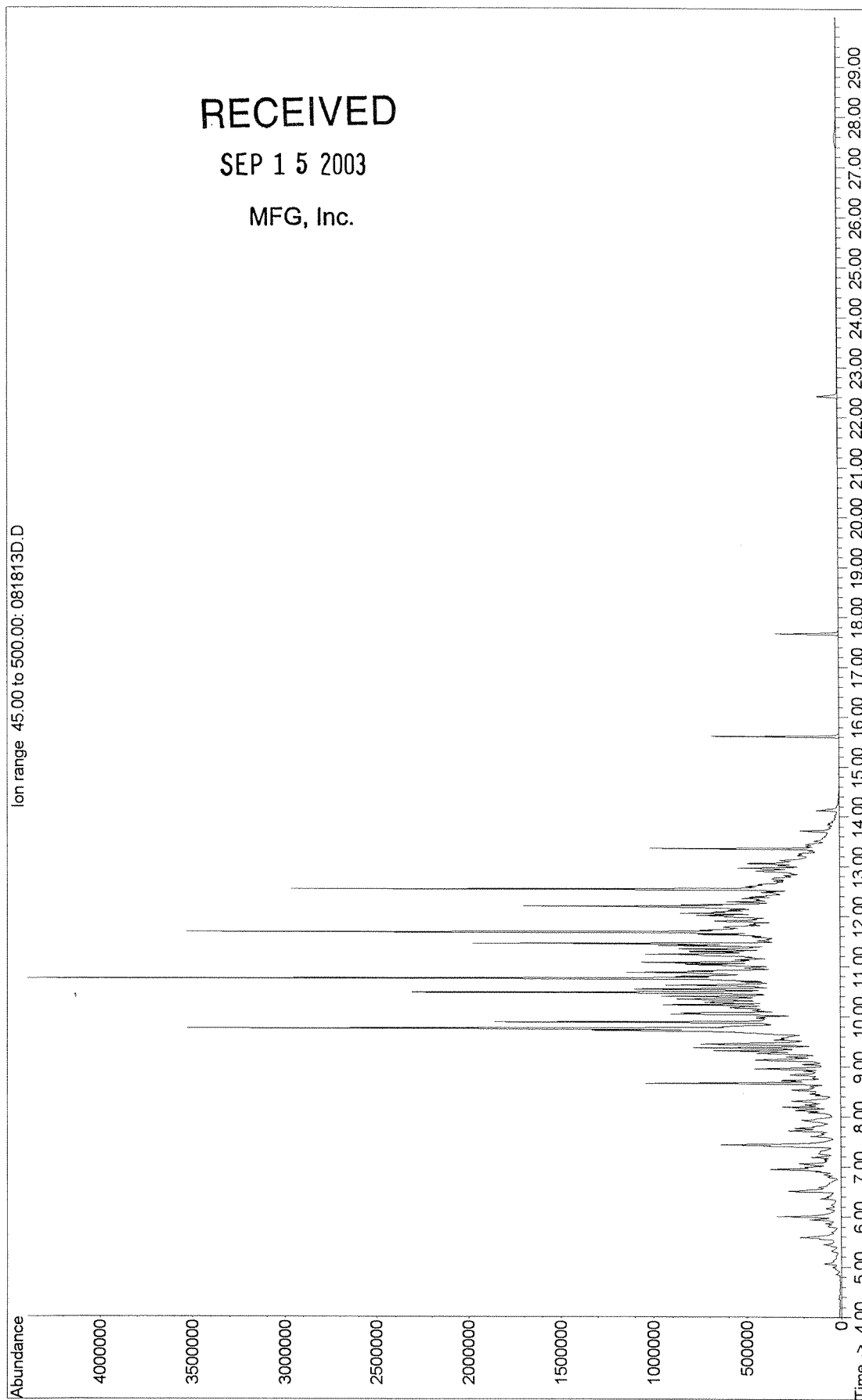


Sample Name: 32743-1a MFG/SPI-Arcate SS4714/Pe
Misc Info : 1uL,vf=2mL(1:100),25g,PD-NE2-1.5',8.13.03





Sample Name: 800ug/mL Kerosene Std
Misc Info : 1uL, I-030303-3



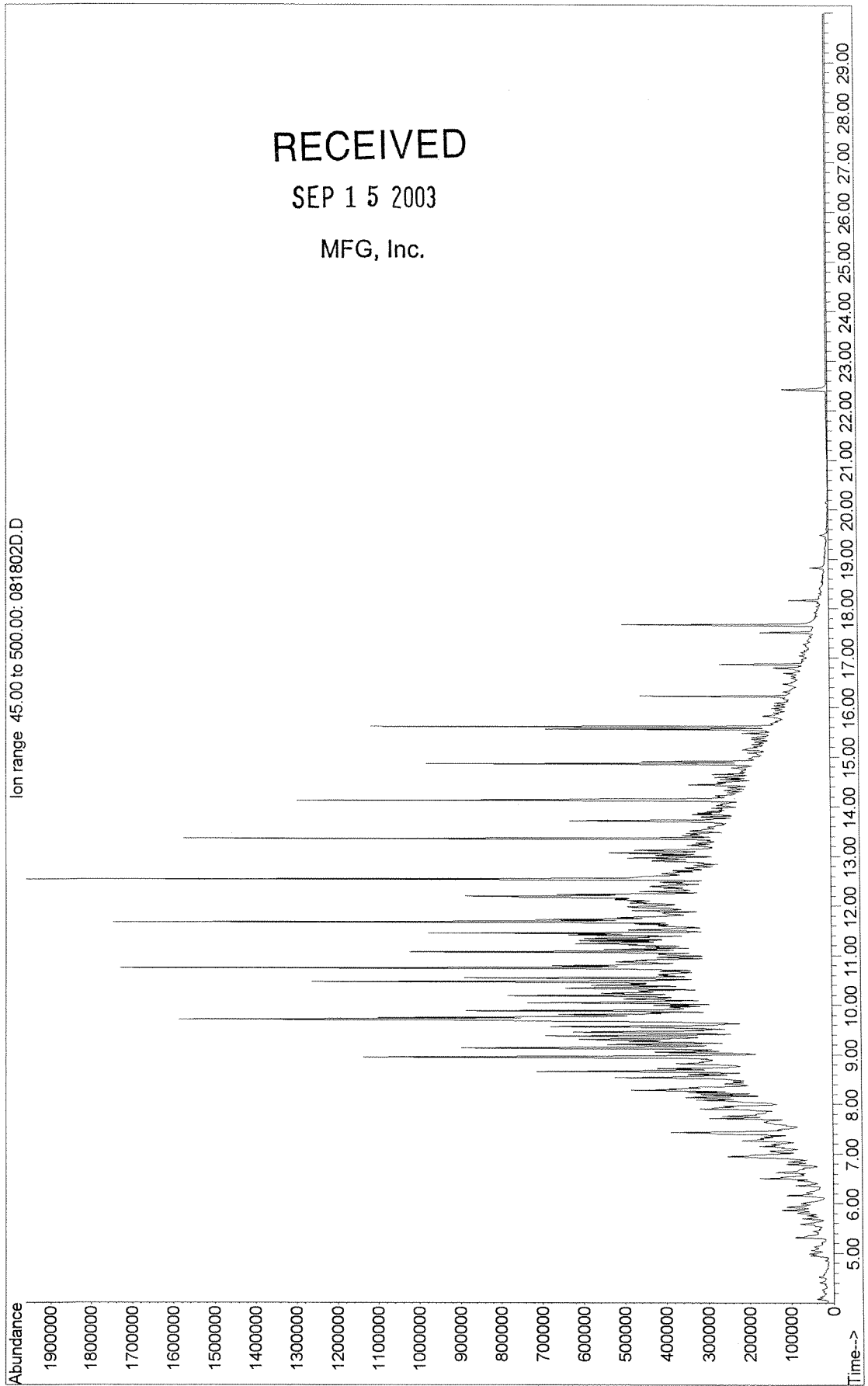
RECEIVED

SEP 15 2003

MFG, Inc.

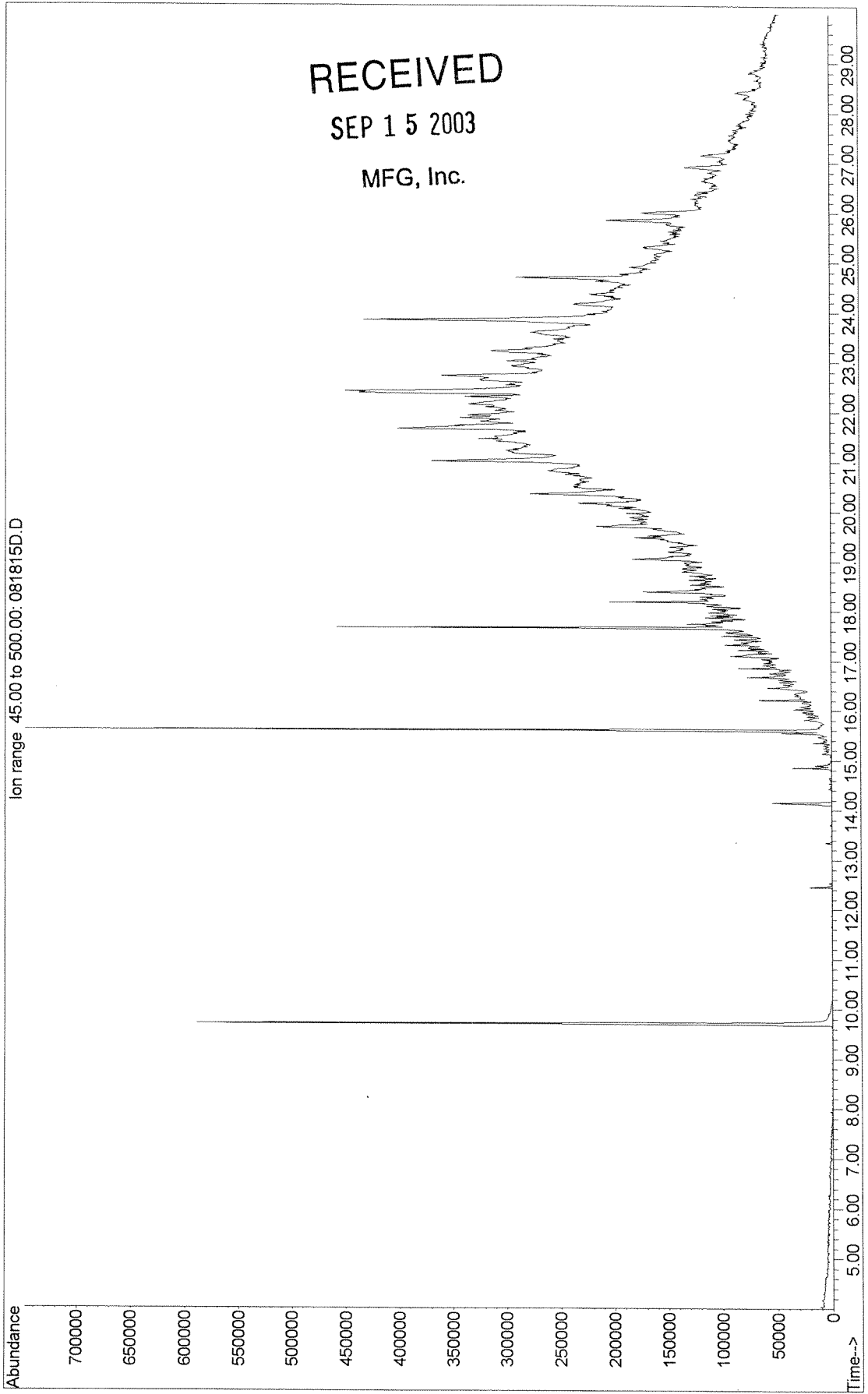


Sample Name: 800ug/mL Diesel #2 CC
Misc Info : 1uL, I-062703-3



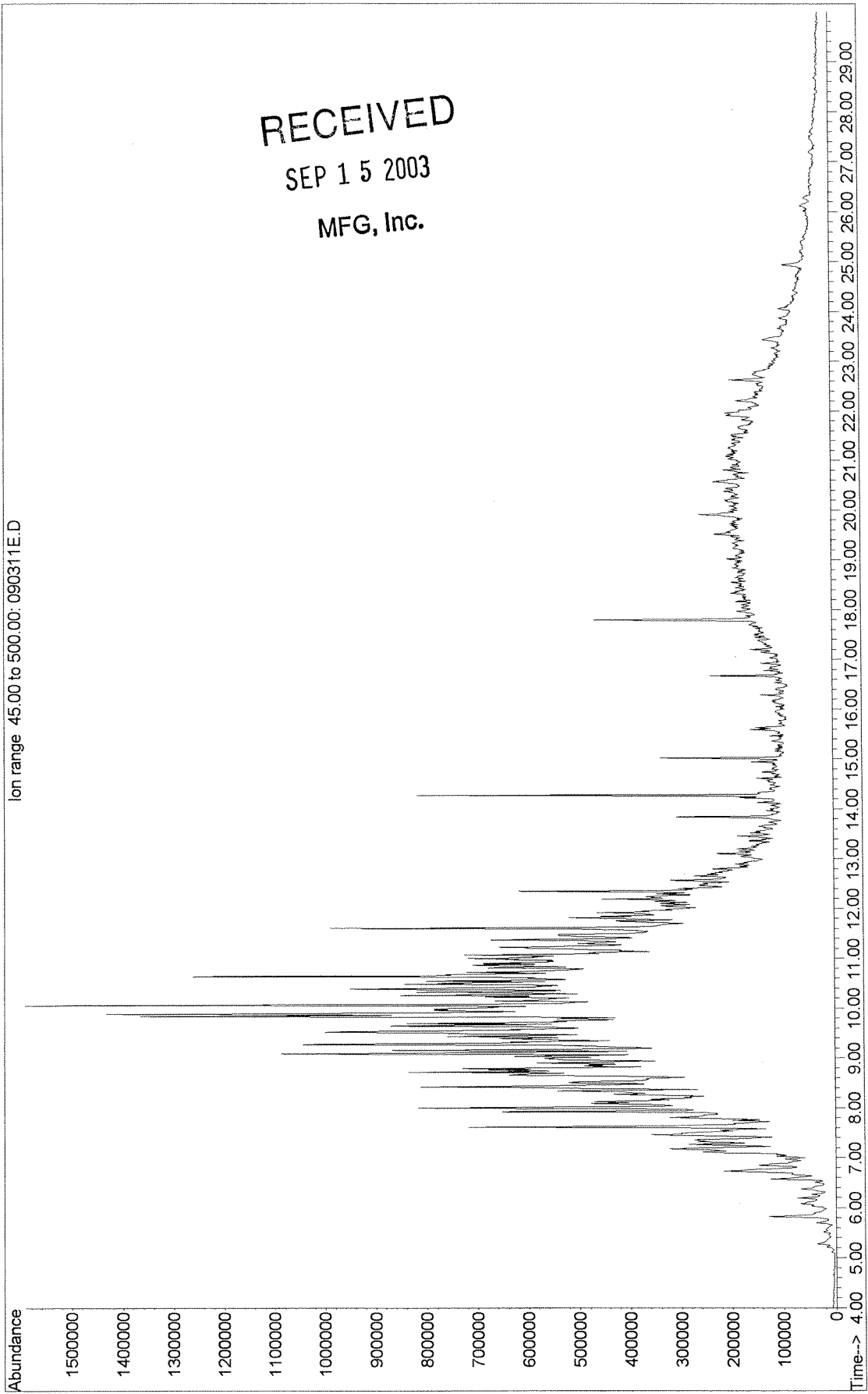


Sample Name: 1600ug/mL Motor Oil CC
Misc Info : 1uL, I-072803-10



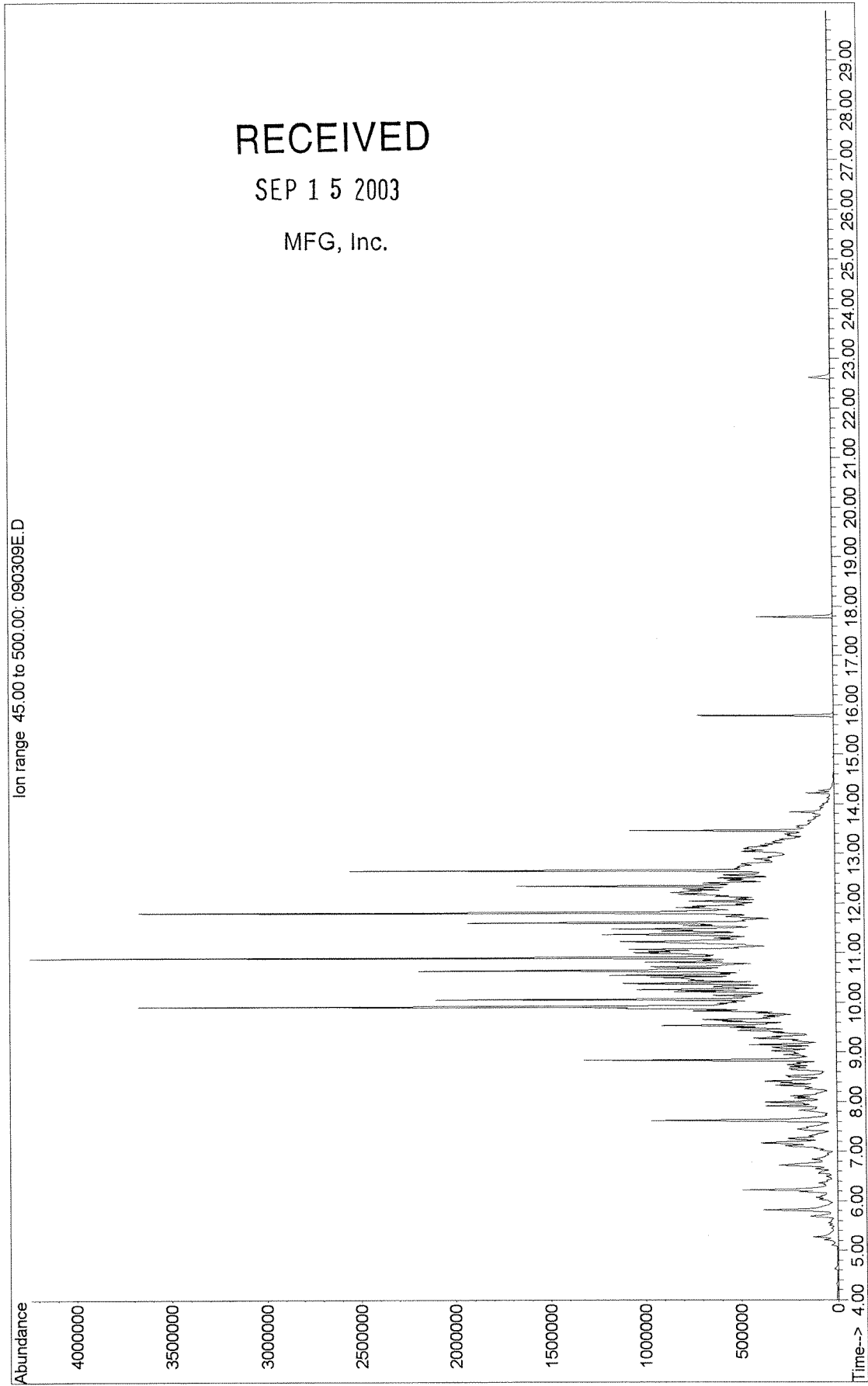


Sample Name: 32743-1/Si MFG/SPI SS4714/pe/SG1694
Misc Info : 1uL, [1:100], 25g, PD-NE2-1.5', 8.12.03/9.2.03





Sample Name: 800ug/mL Kerosene Std.
Misc Info : 1uL, I-030303-3



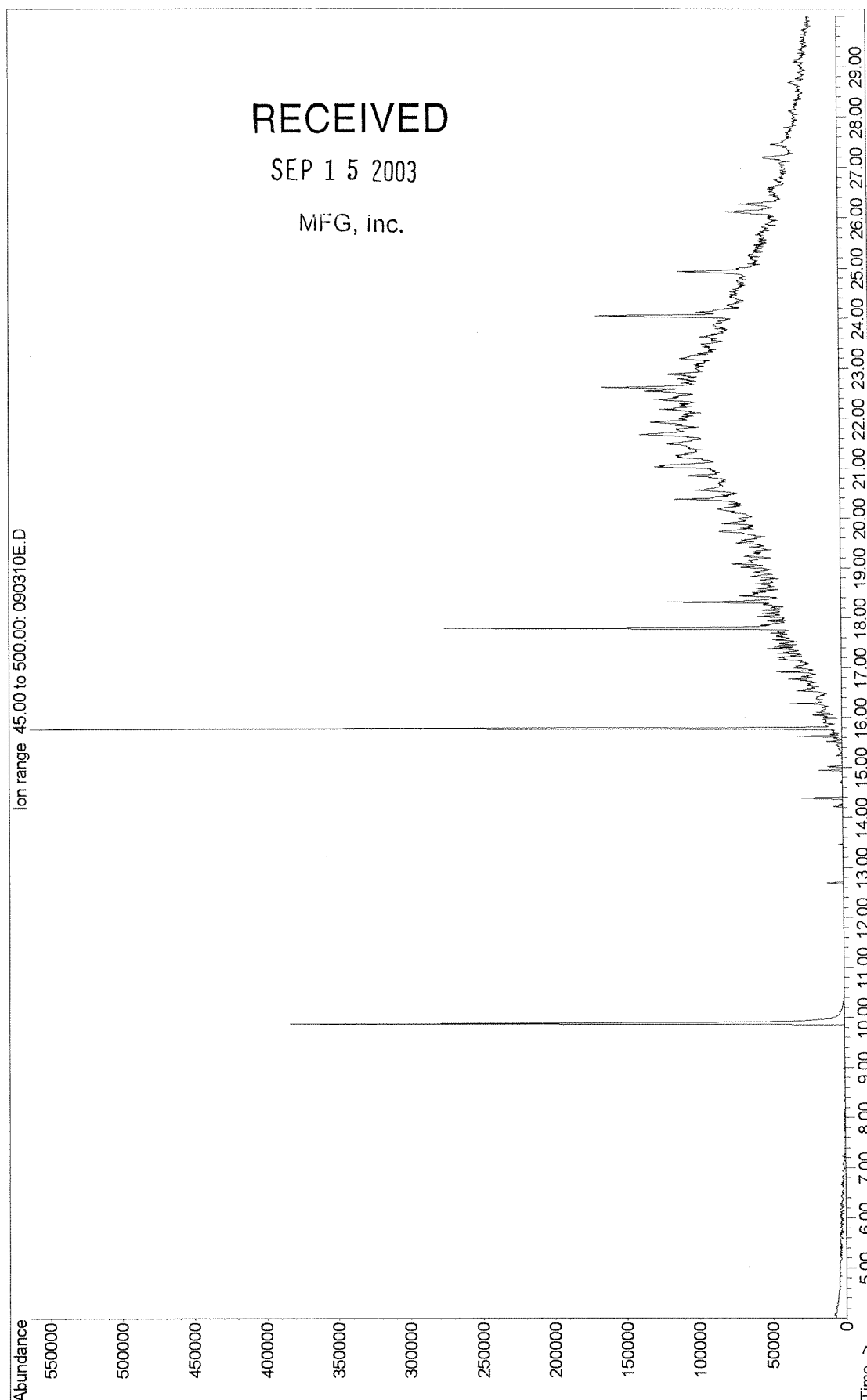
RECEIVED

SEP 15 2003

MFG, Inc.



Sample Name: 1600ug/mL Motor Oil CC
Misc Info : 1uL, I-050403-1





WORK ORDER CHAIN OF CUSTODY RECORD

Alpha Analytical Laboratories Inc. • 208 Mason Street, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

DATE 8-11-03 PAGE 1 of 1

CLIENT'S NAME: MFG, Inc
 STREET ADDRESS: 815 Crescent Way Arcata CA 95521
 PROJECT NAME: SPE - Arcata / Task #14
 CONTRACT/PURCHASE ORDER/QUOTE NUMBER: _____

CITY: ARCATA STATE: CA ZIP: 95521
 PROJECT MANAGER: ED Conti
 PHONE NUMBER: 707-826-8430
 FAX NUMBER: 707-826-8437
 SITE CONTACT: _____

SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM: _____

SAMPLED BY: _____

SAMPLE NUMBER/IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	SAMPLE TYPE			NO. OF CONTS.	EXPLAIN IRREGULARITIES BELOW
				LIQ	AIR	SOLID		
PD-NE2-1.5'	7/31/03	15:41	32743-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	* Tentative hydrocarbon ID required; quantities against the identified fuels provide chromatograms of Diesel, kerosene and the identified fuel. IF THERE ARE ANY QUESTIONS PLEASE CALL ED Conti
RECEIVED								
SEP 15 2003								
MFG, Inc.								
ANALYSES: <u>41.5-495-7110</u> <u>Requested by E. Conti, 8/25/03, stat</u>								

TURN AROUND TIME REQUESTED: STD

RECEIVED BY: (SIGNATURE) Shari Speck 8:11-03
 RECEIVED BY: (SIGNATURE) _____
 RECEIVED FOR LABORATORY BY: (SIGNATURE) _____
 AUTHORIZED BY: (SIGNATURE) Ed Conti 8/12/03

SAMPLE CONDITION ON RECEIPT: _____
 COLD/ICED? _____
 BUBBLES OR AIR SPACE? _____
 WERE SAMPLES PRESERVED? _____

SAMPLE DEPOSITION:
 1. STORAGE TIME REQUESTED _____ DAYS (SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES; THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.)
 2. SAMPLE TO BE RETURNED TO CLIENT? YES NO
 HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES. CLIENTS NOT PICKING UP HAZARDOUS WASTES MAY BE ASSESSED AN APPROPRIATE FEE.

SPECIAL INSTRUCTIONS: PLEASE indicate Cooler Temp

DRIVING TIME: _____ SITE TIME: _____ TOTAL TIME: _____

APPENDIX D

Waste Disposal Documentation

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST *		1. Generator's US EPA ID No. C A D 0 4 7 4 0 3 6 9 6 1 8 9 3 3		Manifest Document No.		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						A. State Manifest Document Number 22818933							
4. Generator's Phone (707 443-3111						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.]							
7. Transporter 2 Company Name						D. Transporter's Phone (800)974-4495							
8. US EPA ID Number						E. State Transporter's ID [Reserved.]							
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							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste Number State 223 EPA/Other NONE	
a. NON RCRA HAZARDOUS WASTE LIQUID, (OILY WATER)						001 TT D/DSSD G						State EPA/Other	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Wastes Listed Above 11A) 208848						K. Handling Codes for Wastes Listed Above a. 91 b. c. d.							
15. Special Handling Instructions and Additional Information USE PPE NAERG #: 11A. 171 SITE: 2293 SAMOA ROAD, ARCATA, CA 95518 EMERGENCY CONTACT :CHEMTREC 1-800-424-9300 Prog# 30617A1Z PC# A080021193													
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 BITI POZAH				Signature 				Month 08		Day 15		Year 03	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name JEFF BILKOW				Signature 				Month 08		Day 15		Year 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 VICENTE ESTRADA													
Signature 								Month 08		Day 15		Year 03	

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.)

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550


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 4. Generator's Phone (707 443-3111						A. State Manifest Document Number 22817615									
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									
7. Transporter 2 Company Name						8. US EPA ID Number									
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									
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) NON RCRA HAZARDOUS WASTE LIQUID WATER WITH QUALIFIED PENTACHLOROPHENOL 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.						12. Containers		13. Total		14. Unit		15. Waste Number			
						No.		Type		Quantity		Wt/Vol		State	
										005 DM 00230 5				NONE	
														EPA/Other	
														State	
J. Additional Descriptions for Materials Listed Above 11A) 200520 5 X 55 G						K. Handling Codes for Wastes Listed Above									
15. Special Handling Instructions and Additional Information USE PPE NAERG #: 11A. 171 SITE: 2593 NEW NAVY BASE ROAD, ARCATA, CA 95518						EMERGENCY CONTACT :CHEMTREC 1-800-424-9300 TYP# 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 Hanney				Signature <i>J Hanney</i>		Month 09		Day 12		Year 03					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name William Park				Signature <i>W Park</i>		Month 09		Day 12		Year 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 Jose Lito Colloca															
Signature <i>J Colloca</i>				Month 09		Day 12		Year 03							

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.)

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 1100 ARCATA		2503 NEW NAVY BASE ROAD 95518		
4. Generator's Phone (707) 443-3111		CA		
5. Transporter 1 Name ASBURY ENVIRONMENTAL SERVICES		6. US EPA ID Number CAD028277036	A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter 1 Phone 800 974-4495	
9. Destination Facility Name and Site Address ALTA MONT LANDFILL 10040 ALTA MONT PASS ROAD LIVERMORE		10. US EPA ID Number CAD981382732	C. State Transporter's ID	
			D. Transporter 2 Phone	
			E. State Facility's ID 675704349	
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit
a. NON HAZARDOUS SOLID (SOIL WITH DIESEL, MOTOR OIL)		No. Type		Unit
b.				
c.				
d.				
15. Additional Descriptions for Materials Listed Above 110 0020300		16. Handling Codes for Wastes Listed Above		
18. Special Handling Instructions and Additional Information USE PPE		EMERGENCY CONTACT : CHEMTREC 1-800-424-9300		
				
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	
Ken Williams		<i>Ken Williams</i>	9/11/03	
Printed/Typed Name		Signature	Date	
Ken Brown		<i>Ken Brown</i>	9/15/03	

GENERATOR FACILITY