PLYWOOD COVERED DITCH INVESTIGATION REPORT

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

June 9, 2003

MFG, Inc.
consulting scientists and engineers
a Tetra Tech company

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June 9, 2003

Prepared For:

SIERRA PACIFIC INDUSTRIES

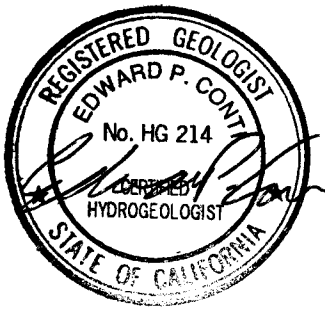
Prepared By:

MFG, INC.
1165 G Street, Suite E
Arcata, California 95521
(707) 826-8430

MFG Project No. 030229.8

PROFESSIONAL CERTIFICATION

This report was prepared by MFG, 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.



June 9, 2003

Edward P. Conti
C.HG. No. HG 214
Senior Consulting Geologist
MFG, INC.

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1.0 INTRODUCTION

MFG, Inc. has prepared this report on behalf of Sierra Pacific Industries (SPI) to document soil sampling activities in the plywood covered ditch at SPI's Arcata Division Sawmill. This work was performed 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). 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 at the Arcata Division Sawmill is presented in Figure 2. An enlargement of the plywood covered ditch area is presented in Figure 3.

This work was performed in accordance with the scope of work presented in MFG's *Plywood Covered Ditch Investigation* letter to SPI, dated March 31, 2003. Investigation activities consisted of collecting and chemically analyzing soil samples from two locations in the ditch. This report summarizes the methods and results of the soil sampling and analysis activities.

This report is organized as described below. Background information is provided in Section 2.0. The geology and hydrogeology of the Site is discussed in Section 3.0. The soil sampling and analysis methods and results are described in Section 4.0. Disposal of investigation-derived waste is presented in Section 5.0. Additional work planned is presented in Section 6.0, and references cited in this report are listed in Section 7.0.

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 Arcata Division Sawmill is included in Figure 2. The Site features in the area of the 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 in. The mill has been active from 1950 to present day.

2.2 Plywood Covered Ditch

The plywood covered ditch is located in the southwestern portion of the property (Figure 2). The ditch is approximately 20 feet long and a few feet wide. The ditch runs between the parts storage area and the oil shed, immediately northwest of the Hyster Shop (Figure 3). The ditch was excavated to install an underground electrical conduit and was covered with plywood during the installation process. The ditch currently contains an electrical conduit and is backfilled with native soil. It is no longer covered with plywood.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

The subsurface lithology and hydrogeology at the Site was previously investigated and described by Environet Consulting (Environet, 2003). The subsurface lithology consists primarily of fine- to medium-grained sand of apparent sand dune origin to a depth of approximately 22 feet below ground level (bgl), the maximum depth explored 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.

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). Groundwater was measured at a depth of approximately 2 feet bgl in a temporary monitoring well that was installed in April 2003 in the vicinity of the Truck Shop, which is located immediately south of the Hyster Shop. Based on the proximity of the Truck Shop to Humboldt Bay, the groundwater flow direction in this area is likely to the south-southeast, toward Humboldt Bay.

4.0 SOIL SAMPLING METHODS AND RESULTS

4.1 Field Methods

Prior to soil sampling activities, MFG obtained a boring permit from the Humboldt County Division of Environmental Health (HCDEH) (Appendix A). Underground Service Alert (USA) was contacted to mark the area for underground utilities and SPI personnel reviewed facility drawings for the presence of underground utilities in the vicinity of the plywood covered ditch.

On April 3, 2003, MFG attempted to collect soil samples using a hand auger; however, auger refusal was encountered at a depth of approximately 6 inches bgl at 3 attempted locations because of the gravelly nature of the subsurface material in the area. The three hand auger locations were subsequently filled with neat cement. On April 8, 2003, MFG returned to the area to collect soil samples at two locations using a shovel and stainless steel trowel. The two soil sampling locations (PD-1 and PD-2) are shown in Figure 3.

Soil samples were collected at the ground surface (0.0 to 0.5 feet bgl) and at a depth of 2.0 to 2.5 feet bgl at each location. Soil collected from each sample interval for chemical analysis was placed directly into wide-mouth glass jars with Teflon®-lined caps using the stainless steel trowel. 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 samples and accompanied the samples until receipt by the laboratory.

The soil was described in the field for lithologic classification, color and moisture content in accordance with the American Society of Testing and Materials (ASTM) Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) D 2488. Indications of contamination, including observations regarding odor or staining, if any, were noted on a boring log for each location. The boring logs are included as Appendix B. Headspace measurements of soil from each sample interval were made in the field using a Thermo-Environmental Instruments Model 580B portable photoionization detector (PID). The PID was calibrated using a 96 parts per million by volume (ppmv) isobutylene gas standard. The response factor of the PID was set such that the instrument would read in ppmv as isobutylene. To prepare the soil for headspace measurements, the soil was placed in a sealable plastic bag, the bag was sealed, and then the soil was broken up and agitated. The bag was allowed to stand for approximately 10

minutes, agitated again, and then the PID probe was inserted into the bag. The highest PID reading was recorded for each sample and noted on the boring log opposite the respective sample interval (Appendix B). At the conclusion of sampling activities, the soil that had been removed with the shovel was returned to each location and manually compacted to the surrounding grade. Photographs of the soil sampling activities are presented in Appendix C.

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.

Soil cuttings and equipment wash water generated during sampling activities were placed in separate steel, 55-gallon, Department of Transportation (DOT)-approved drums that were sealed and labeled and are being temporarily stored in a secure location at the Site pending disposal (Section 5.0).

4.2 Stratigraphy and Field Observations

The soil encountered during sampling activities consisted of concrete debris, gravel and medium sand from the ground surface to approximately 2.0 feet bgl. Silty sand with clay was encountered from approximately 2.0 to 2.5 feet bgl, the maximum depth explored. The depth to saturated soil was approximately 1.2 feet bgl. A slight organic-like odor was detected in each sample; however, evidence of soil staining was not observed (Appendix B). The PID readings from headspace measurements of the soil samples ranged from 6.0 to 44 ppmv (Appendix B).

4.3 Chemical Analysis Methods and Results

The 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 8015 with silica gel cleanup;
- Chlorinated phenols using the Canadian Pulp Method; 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 D.

Oil and Grease was detected in the four soil samples at concentrations ranging from 1,100 to 8,200 milligrams per kilogram (mg/kg). Total extractable petroleum hydrocarbons (TEPH) as diesel was detected in the four soil samples at concentrations ranging from 17 to 330 mg/kg. However, the laboratory report indicated that the diesel range organics in samples PD-1 (0-.5) and PD-2 (0-.5), collected from 0.0 to 0.5 feet bgl, were primarily due to overlap from a heavier oil range compound. TEPH as motor oil was detected in the four soil samples at concentrations ranging from 160 to 1,300 mg/kg (Table 1).

Chlorinated phenols were not detected in any of the soil samples. The only VOCs detected included: chlorobenzene, 1,4-dichlorobenzene, naphthalene and 1,2,4-trimethylbenzene at concentrations ranging from 0.24 to 0.49 mg/kg in soil sample PD-1 (2-2.5) collected at a depth of 2.0 to 2.5 feet bgl; and 1,4-dichlorobenzene at a concentration of 0.35 mg/kg in soil sample PD-2 (2-2.5) collected at a depth of 2.0 to 2.5 feet bgl. All other VOCs were not detected at or above their respective laboratory reporting limits in the four soil samples (Table 1).

5.0 DISPOSAL OF INVESTIGATION-DERIVED WASTE

Soil cuttings and equipment wash water are being stored temporarily at the Site in steel, 55-gallon drums (Section 4.1). Following completion of the additional work described in Section 6.0, investigation-derived waste from this investigation and the waste generated during the additional work will be disposed of in accordance with applicable regulations.

6.0 ADDITIONAL WORK PLANNED

SPI plans to remove the soil covering the electrical conduit and pour concrete in the area. This is a necessary safety action to secure the electrical conduit and protect mill personnel. Since petroleum hydrocarbons and low levels of some volatile organic compounds (VOCs) were detected in the soil samples collected during this investigation, additional soil in the vicinity of the plywood covered ditch will be removed in conjunction with the maintenance work described above. We anticipate excavating an area approximately 30 feet by 4 feet to a depth ranging from 2 to 3 feet bgl. The actual area and depth of excavation will be determined in the field based on field observations, physical access, and the stability of nearby structures.

Excavated soil will be placed in covered soil bins, drums, and/or a covered, bermed area at the Site. The excavated soil will be stored temporarily at the Site and then disposed of in conjunction with the soil generated during the plywood covered ditch investigation (Section 5.0).

If groundwater is encountered in the excavation, groundwater will be pumped from the pit and placed in temporary, above-ground holding tanks or drums at the Site. The volume of groundwater extracted will depend on the depth encountered, the size of the excavation, and the stability of the excavation sidewalls. A sample of the extracted groundwater will be collected and analyzed for oil and grease, total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil, and VOCs. The extracted groundwater will be stored temporarily at the Site pending the results of the chemical analyses and then disposed of along with equipment wash water generated during this work and during the plywood covered ditch investigation (Section 5.0).

Following completion of the excavation activities, confirmation soil and groundwater (if encountered) samples will be collected. At a minimum, 4 confirmation soil samples (one from each sidewall) and one groundwater sample will be collected. The confirmation samples will be analyzed for oil and grease, total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil, and VOCs.

The excavation will be backfilled with clean fill and concrete or asphalt will be placed at the ground surface.

MFG will prepare a report that summarizes the methods and results of the work discussed above. Observations made during the excavation activities will be summarized in the report. The report will include a Site plan showing the excavation area as well as the locations of confirmation samples. The report will also include tabulated chemical analysis data, copies of laboratory reports and sample chain-of custody records, and documentation of the management and disposal of investigation-derived waste.

7.0 REFERENCES

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

TABLE 1

SUMMARY OF CHEMICAL ANALYSIS RESULTS OF SOIL SAMPLES
FOR OIL AND GREASE, TEPH, CHLORINATED PHENOLS AND VOCs

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

SAMPLE ID	SAMPLE DEPTH (feet bgl)	SAMPLE DATE	LITHOLOGY	OIL & GREASE (mg/kg)	TEPH AS DIESEL (mg/kg)	TEPH AS MOTOR OIL (mg/kg)	CHLORINATED PHENOLS (mg/kg)	CHLORO-BENZENE (mg/kg)	1,4-DICHLORO-BENZENE (mg/kg)	NAPH-THALENE (mg/kg)	1,2,4-TRIMETHYL-BENZENE (mg/kg)	OTHER VOCs (mg/kg)
			Reporting Limit:	50	10	20	1.0	0.0050	0.0050	0.0050	0.0050	0.0050-0.020
PD-1(0-.5)	0.0-0.5	8-Apr-03	SAND	1,200	17 [1]	160	ND	ND	ND	ND	ND	ND
PD-1(2-2.5)	2.0-2.5	8-Apr-03	SILTY SAND W/ CLAY	7,800	330	1,300	ND	0.49	0.39	0.24	0.33	ND [0.22-0.87]
PD-2(0-.5)	0.0-0.5	8-Apr-03	SAND	1,100	20 [1]	250	ND	ND	ND	ND	ND	ND
PD-2(2-2.5)	2.0-2.5	8-Apr-03	SILTY SAND W/ CLAY	8,200	140	850	ND	ND [0.22]	0.35	ND [0.22]	ND [0.22]	ND [0.22-0.87]

NOTES:

TEPH	Total extractable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 with silica gel cleanup and quantified against diesel and motor oil standards.
VOCs	Volatile organic compounds. Analyzed using EPA Method 8260B.
bgl	Below ground level.
mg/kg	Milligrams per kilogram.
ND	Not detected at or above the laboratory reporting limit indicated at the top of the column.
[ ]	Indicates the reporting limit is different than that shown at the top of the column.
1.	Laboratory indicated that the result is primarily due to overlap from a heavier oil range compound.

Oil and Grease was analyzed using EPA Method 9071B with silica gel cleanup.
Chlorinated phenols were analyzed using the Canadian Pulp Method and included the following target analytes: 2,4,6-trichlorophenol; 2,3,5,6-tetrachlorophenol; 2,3,4,6-tetrachlorophenol; 2,3,4,5-tetrachlorophenol; and pentachlorophenol.

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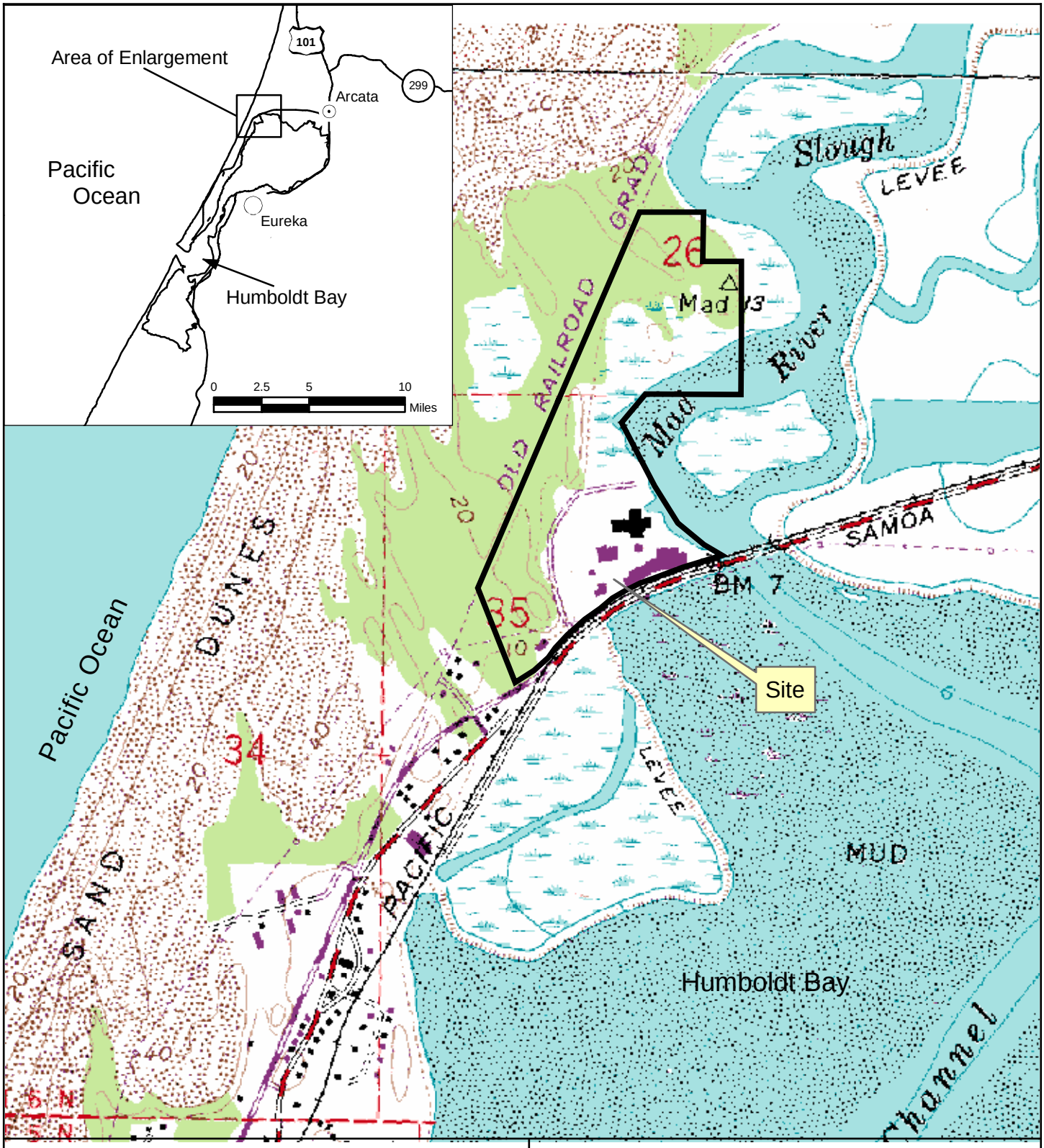

Source: USGS 24k Digital Raster Graph,
Eureka Quadrangle, Year - 1972

Site Boundary

0 500 1,000 2,000
Feet
Approximate Scale

N

LOCATION MAP

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229	By: I.Pryor	**Figure 1**
Date: 6/6/03	Checked: O.Plocher	

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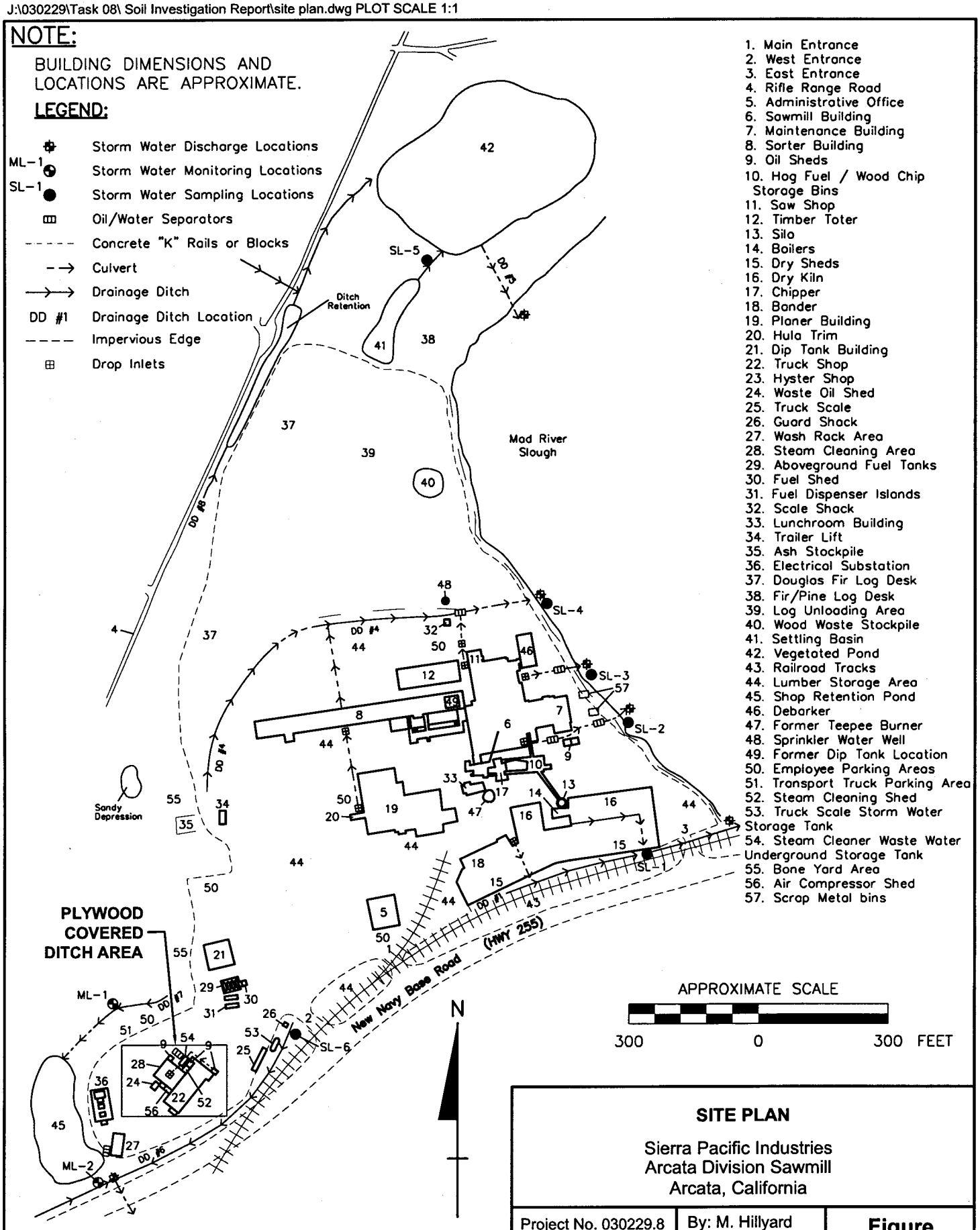
J:\030229\Task 08\ Soil Investigation Report\site plan.dwg PLOT SCALE 1:1



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

SITE PLAN

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229.8	By: M. Hillyard	**Figure 2**
Date: May 27, 2003	Checked: CGS	

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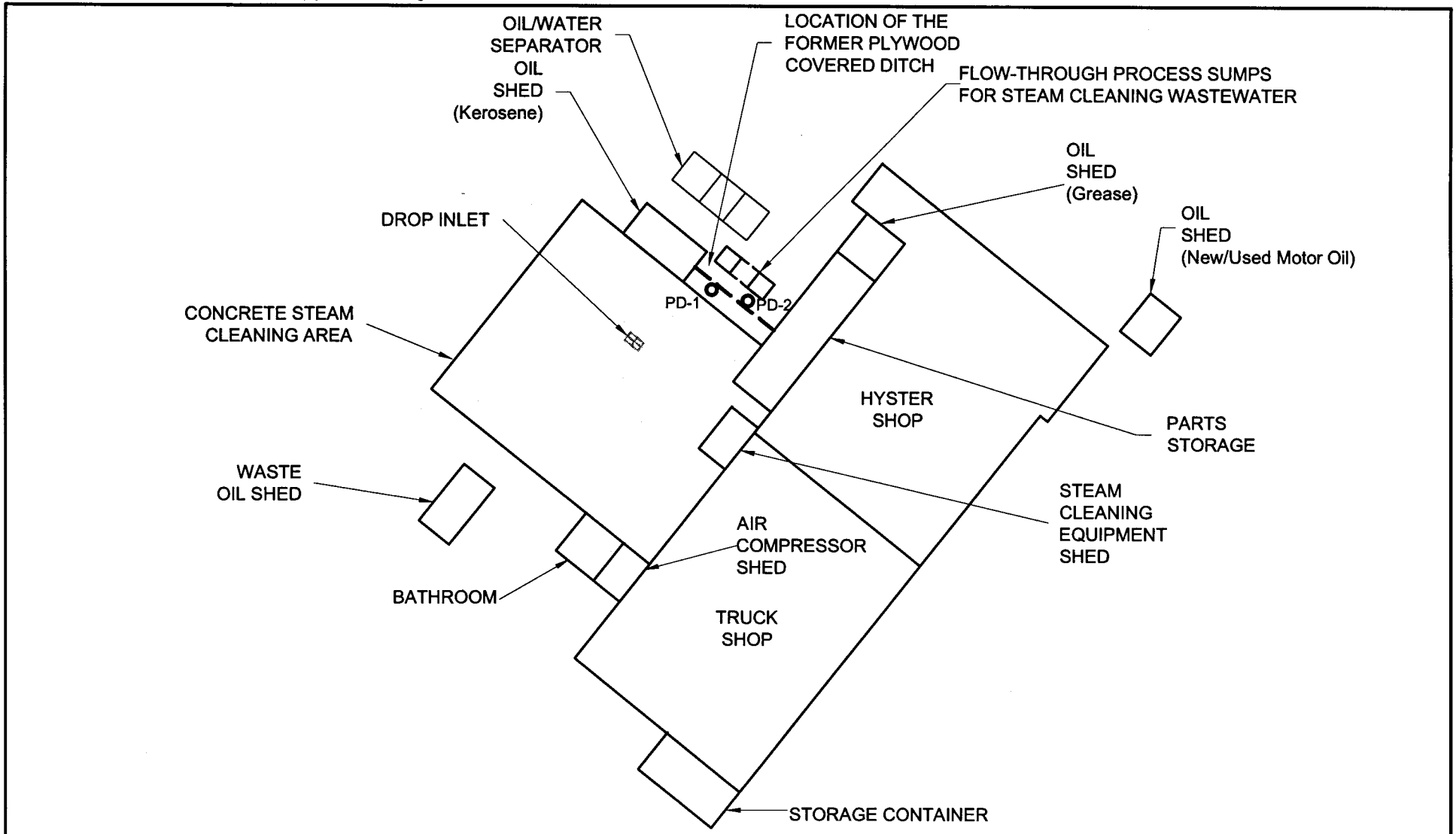
J:\030229\Task 08\Soil Investigation Report\plywood ditch.dwg PLOT SCALE 1:1



LEGEND

O PD-1 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL SAMPLES

— — — APPROXIMATE LOCATION OF ELECTRICAL CONDUIT IN THE FORMER PLYWOOD COVERED DITCH

N

0 15 30

APPROXIMATE SCALE

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

PLYWOOD COVERED DITCH SAMPLE LOCATIONS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229.8	By: M. Hillyard	**Figure 3**
Date: 5/27/03	Checked: CGS	

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APPENDIX A

Humboldt County Division of Environmental Health
Boring Permit

APR 1 2003

HUMBOLDT CO. DIVISION OF ENVIRONMENTAL HEALTH

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

Facility ID # 1NHU526 Permit # 27-E

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

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

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

Consultant: MFG, Inc. Telephone: 707-826-8430
Address: 1165 G. Street, Suite E Arcata, CA 95521 Reg.#/Type:

Driller: NA, hand augered Telephone:
Address: C-57 Lic.#:

# On-site				# Off-site			
Wells		Borings	7	Wells		Borings	

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

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

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

Investigation Phase: ☐ Initial ☑ Subsequent ☐ Remediation ☐ Closure

Suspected Contaminants: PCP, TCP, Dioxin, furan, TPH D, oil & grease

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

Disposal/Containment for Rinsate: Ashbury / 55-gallon drum

Disposal/Containment for Development Water: NA

Permits will not be processed with out the following information:

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

Proposed Work Date: Apr. 3 '03

rev. 6/98

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

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

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

Certificates of Insurance:

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

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

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

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

FOR OFFICE USE ONLY

Permit Approval: Norman Crawford **Date:** 4/1/2003

Fee: $116.00 **Date:** 4/1/2003 **Receipt:** 215399

Initial Inspection: _____ **Date:** _____

Final Inspection: _____ **Date:** _____

APPENDIX B

Boring Logs

ABBREVIATIONS/SYMBOLS USED IN BORING LOGS

GENERAL

PID - Photoionization Detector
OVM - Organic Vapor Meter
ppm - parts per million in air
sfc csg - surface casing
USCS - Unified Soil Classification System
NGVD - National Geodetic Vertical Datum of 1929
NAVD - North American Vertical Datum of 1988
NA - Not Analyzed

slt - slight or slightly
bgl - below ground level
DTW - depth to water

COLORS

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

SAND GRAIN SIZE

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

DENSITY/STIFFNESS

Med - Medium
V - Very

GEOLOGICAL CONTACTS

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

GEOTECHNICAL

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

MOISTURE CONTENT

▼ - Observed top of saturated soil interval

NOTE:

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

EXPLANATION FOR BORING LOGS

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LOG OF BORING PD-1

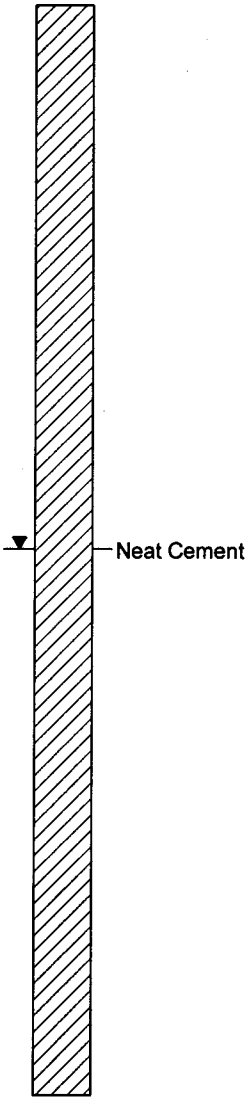
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.8

Drilling Agency	: MFG, Inc.	Logged By	: Jason Triolo
Drilling Method	: Shovel	Reviewed By	: Christopher Spill, R.G.
Sampler Type	: Stainless steel trowel		
Sampling Method	: Grab sample		
Ground Elevation	: Not Surveyed		

Date Started: April 8, 2003
Date Finished: April 8, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	SAND: dk brn (10YR 3/3); Med sand, few subangular F gravel and rootlets, dry.	SP	1	6	PID calibrated using 96 ppmv isobutylene.
	SAND w/ GRAVEL: dk brn (10YR 2/1); Med sand, some F subangular gravel, little concrete fragments, trace wood chips, moist.				PID = 23 ppmv (0.0 - 0.5 feet bgl). Slight organic odor.
1		SP			
2	SILTY SAND w/ CLAY: v. dk grayish brn (10YR 3/2); Med sand, some silt, trace clay, trace wood chips, wet.	SM	2	6	PID = 44 ppmv (2.0 - 2.5 feet bgl). Slight organic odor.
3	NOTE: 1. Depth to water measured at 1.25 feet bgl.				



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LOG OF BORING PD-2

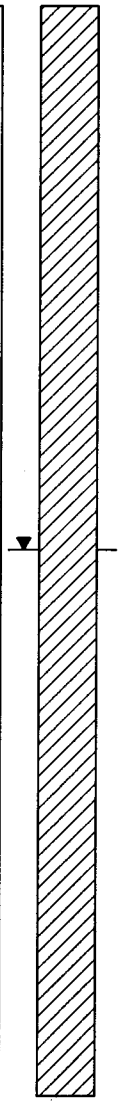
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.8

Drilling Agency	: MFG, Inc.	Logged By	: Jason Triolo
Drilling Method	: Shovel	Reviewed By	: Christopher Spill, R.G.
Sampler Type	: Stainless steel trowel		
Sampling Method	: Grab sample		
Ground Elevation	: Not Surveyed		

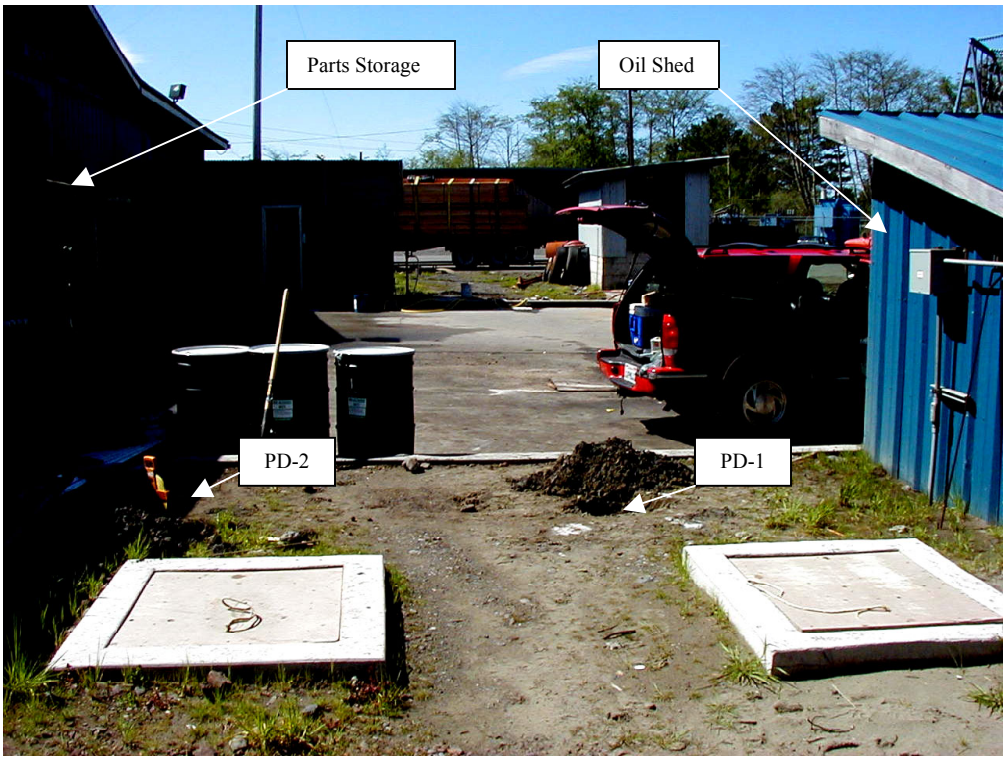
Date Started: April 8, 2003
Date Finished: April 8, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	SAND: dk brn (10YR 2/1); Med sand, few subangular F gravel and rootlets, dry.	SP	1	6	PID calibrated using 96 ppmv isobutylene.
	CLAYEY SAND w/ GRAVEL: v. dk grey (10YR 3/2); Med sand, some subangular F gravel, moist.				PID = 6.0 ppmv (0.0 - .5 feet bgl). Slight organic odor
	some wood chip fragments.				
1		SC			
2	SILTY SAND w/ CLAY: v. dk grey (10YR 3/2); Med sand, some silt, few subrounded F gravel, few clay, wet.	SM	2	6	PID = 20 ppmv (2.0 - 2.5 feet bgl).
	NOTE: 1. Depth to water measured at 1.25 feet bgl.				
3					

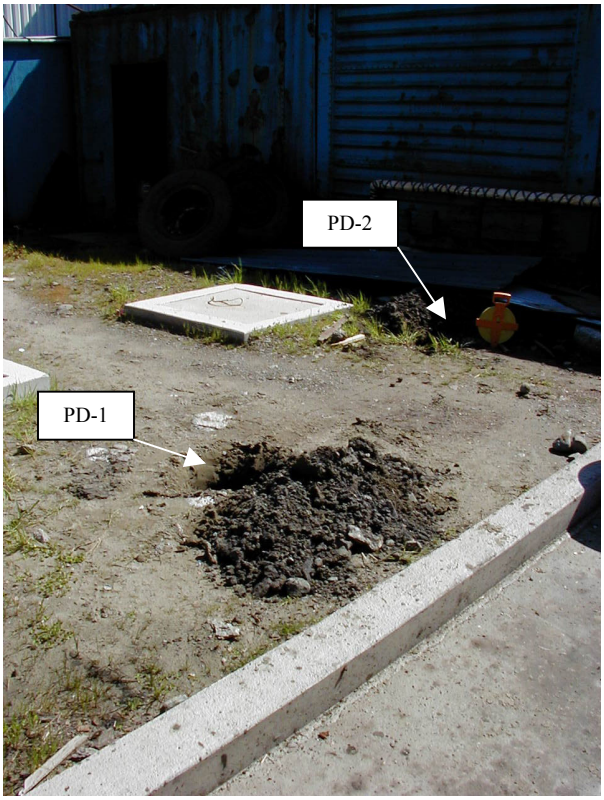


APPENDIX C

Photographs



Picture looking southwest showing the location of the Plywood Covered Ditch (now filled and not covered with plywood) with sampling locations PD-1 and PD-2.



Picture looking southeast showing sampling locations PD-1 and PD-2.

Soil sample location PD-1.

Soil sample location PD-2.

APPENDIX D

Laboratory Report and Chain of Custody Record for Soil Samples

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

19 May 2003

MFG, Inc - Arcata
Attn: Matt Hillyard
1165 G. Street, Suite E
Arcata, CA 95521
RE: SPI Arcata Sawmill
Work Order: A304264

Enclosed are the results of analyses for samples received by the laboratory on 04/09/03 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cheryl Watson For Sheri L. Speaks
Project Manager

This represents an amended copy
of the original report

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Tetra Tech/MFG, Inc.

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	POL	NOTE
PD-1 (0-.5) (A304264-01)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B								
Acetone	EPA 8260B	AD32511	04/21/03	04/22/03	1	ND mg/kg	0.020	
Benzene	"	"	"	"	"	ND "	0.0050	
Bromobenzene	"	"	"	"	"	ND "	0.0050	
Bromochloromethane	"	"	"	"	"	ND "	0.0050	
Bromodichloromethane	"	"	"	"	"	ND "	0.0050	
Bromoform	"	"	"	"	"	ND "	0.0050	
Bromomethane	"	"	"	"	"	ND "	0.0050	
n-Butylbenzene	"	"	"	"	"	ND "	0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0050	
Chlorobenzene	"	"	"	"	"	ND "	0.0050	
Chloroethane	"	"	"	"	"	ND "	0.0050	
Chloroform	"	"	"	"	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	

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Project Manager

5/19/03

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Report Date: 05/19/03 09:29
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A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	POL	NOTE
PD-1 (0-.5) (A304264-01)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								
1,3-Dichloropropane	EPA 8260B	"	"	04/22/03	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.015	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		POL	NOTE
PD-1 (0-.5) (A304264-01)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									
m,p-Xylene	EPA 8260B	"	"	04/22/03	"	ND "		0.0050	
o-Xylene	"	"	"	"	"	ND "		0.0050	
Xylenes (total)	"	"	"	"	"	ND "		0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*118 %*	*70-130*		
Surrogate: Toluene-d8	"	"	"	"		*99.2 %*	*70-130*		
Surrogate: Bromofluorobenzene	"	"	"	"		*84.0 %*	*70-130*		
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AD31611	04/10/03	04/14/03	1	ND mg/kg		1.0	
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
Pentachlorophenol	"	"	"	"	"	ND "		1.0	
Surrogate: Tribromophenol	"	"	"	"		*72.6 %*	*23-140*		
Conventional Chemistry Parameters by APHA/EPA Methods									
Oil & Grease (HEM-SG)	EPA 9071B	AD32307	04/17/03	04/22/03	1	**1200 mg/kg**		**50**	
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	EPA 8015DRO	AD31615	04/16/03	04/17/03	10	**17 mg/kg**		**10**	D-09
TPH as Motor Oil	"	"	"	"	"	**160 "**		**20**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*57.1 %*	*25-132*		
PD-1 (2-2.5) (A304264-02)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**			
Volatile Organic Compounds by EPA Method 8260B									**R-06**
Acetone	EPA 8260B	AD32209	04/15/03	04/17/03	43.3	ND mg/kg		0.87	
Benzene	"	"	"	"	"	ND "		0.22	
Bromobenzene	"	"	"	"	"	ND "		0.22	
Bromochloromethane	"	"	"	"	"	ND "		0.22	
Bromodichloromethane	"	"	"	"	"	ND "		0.22	
Bromoform	"	"	"	"	"	ND "		0.22	

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	POL	NOTE
PD-1 (2-2.5) (A304264-02)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-06**
Bromomethane	EPA 8260B	"	"	04/17/03	"	ND "	0.22	
n-Butylbenzene	"	"	"	"	"	ND "	0.22	
sec-Butylbenzene	"	"	"	"	"	ND "	0.22	
tert-Butylbenzene	"	"	"	"	"	ND "	0.22	
Carbon tetrachloride	"	"	"	"	"	ND "	0.22	
Chlorobenzene	"	"	"	"	"	**0.49 "**	**0.22**	
Chloroethane	"	"	"	"	"	ND "	0.22	
Chloroform	"	"	"	"	"	ND "	0.22	
Chloromethane	"	"	"	"	"	ND "	0.22	
2-Chlorotoluene	"	"	"	"	"	ND "	0.22	
4-Chlorotoluene	"	"	"	"	"	ND "	0.22	
Dibromochloromethane	"	"	"	"	"	ND "	0.22	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.22	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.22	
Dibromomethane	"	"	"	"	"	ND "	0.22	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.22	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.22	
1,4-Dichlorobenzene	"	"	"	"	"	**0.39 "**	**0.22**	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.22	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.22	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.22	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.22	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.22	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.22	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.22	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.22	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.22	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.22	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.22	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.22	
Ethylbenzene	"	"	"	"	"	ND "	0.22	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	POL	NOTE
PD-1 (2-2.5) (A304264-02)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-06**
Hexachlorobutadiene	EPA 8260B	"	"	04/17/03	"	ND "	0.22	
Isopropylbenzene	"	"	"	"	"	ND "	0.22	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.22	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.65	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.43	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.22	
Methylene chloride	"	"	"	"	"	ND "	0.22	
Naphthalene	"	"	"	"	"	**0.24 "**	**0.22**	
n-Propylbenzene	"	"	"	"	"	ND "	0.22	
Styrene	"	"	"	"	"	ND "	0.22	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.22	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.22	
Tetrachloroethene	"	"	"	"	"	ND "	0.22	
Toluene	"	"	"	"	"	ND "	0.22	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.22	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.22	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.22	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.22	
Trichloroethene	"	"	"	"	"	ND "	0.22	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.22	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.22	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.22	
1,2,4-Trimethylbenzene	"	"	"	"	"	**0.33 "**	**0.22**	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.22	
Vinyl chloride	"	"	"	"	"	ND "	0.22	
m,p-Xylene	"	"	"	"	"	ND "	0.22	
o-Xylene	"	"	"	"	"	ND "	0.22	
Xylenes (total)	"	"	"	"	"	ND "	0.22	
Surrogate: Dibromofluoromethane	"	"	"	"		*79.7 %*	*70-130*	
Surrogate: Toluene-d8	"	"	"	"		*95.4 %*	*70-130*	
Surrogate: Bromofluorobenzene	"	"	"	"		*95.4 %*	*70-130*	

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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		POL	NOTE
PD-1 (2-2.5) (A304264-02)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AD31611	04/10/03	04/14/03	1	ND mg/kg		1.0	
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
Pentachlorophenol	"	"	"	"	"	ND "		1.0	
Surrogate: Tribromophenol	"	"	"	"		*78.2 %*	*23-140*		
Conventional Chemistry Parameters by APHA/EPA Methods									
Oil & Grease (HEM-SG)	EPA 9071B	AD32307	04/17/03	04/22/03	1	**7800 mg/kg**		**50**	
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	EPA 8015DRO	AD31615	04/16/03	04/17/03	10	**330 mg/kg**		**10**	
TPH as Motor Oil	"	"	"	"	"	**1300 "**		**20**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*49.3 %*	*25-132*		
PD-2 (0-.5) (A304264-03)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**			
Volatile Organic Compounds by EPA Method 8260B									
Acetone	EPA 8260B	AD32511	04/21/03	04/22/03	1	ND mg/kg		0.020	
Benzene	"	"	"	"	"	ND "		0.0050	
Bromobenzene	"	"	"	"	"	ND "		0.0050	
Bromochloromethane	"	"	"	"	"	ND "		0.0050	
Bromodichloromethane	"	"	"	"	"	ND "		0.0050	
Bromoform	"	"	"	"	"	ND "		0.0050	
Bromomethane	"	"	"	"	"	ND "		0.0050	
n-Butylbenzene	"	"	"	"	"	ND "		0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "		0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "		0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "		0.0050	
Chlorobenzene	"	"	"	"	"	ND "		0.0050	
Chloroethane	"	"	"	"	"	ND "		0.0050	

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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	POL	NOTE
PD-2 (0-.5) (A304264-03)		**Sample Type: Soil**				**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								
Chloroform	EPA 8260B	"	"	04/22/03	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.0050	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.0050	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.0050	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.015	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	POL	NOTE
PD-2 (0-.5) (A304264-03)		**Sample Type: Soil**				**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								
Naphthalene	EPA 8260B	"	"	04/22/03	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	
Xylenes (total)	"	"	"	"	"	ND "	0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*106 %*	*70-130*	
Surrogate: Toluene-d8	"	"	"	"		*101 %*	*70-130*	
Surrogate: Bromofluorobenzene	"	"	"	"		*82.4 %*	*70-130*	

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		POL	NOTE
PD-2 (0-.5) (A304264-03)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AD31611	04/10/03	04/14/03	1	ND mg/kg		1.0	
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
Pentachlorophenol	"	"	"	"	"	ND "		1.0	
Surrogate: Tribromophenol	"	"	"	"		*37.9 %*	*23-140*		
Conventional Chemistry Parameters by APHA/EPA Methods									
Oil & Grease (HEM-SG)	EPA 9071B	AD32307	04/17/03	04/22/03	1	**1100 mg/kg**		**50**	
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	EPA 8015DRO	AD31615	04/16/03	04/17/03	10	**20 mg/kg**		**10**	D-09
TPH as Motor Oil	"	"	"	"	"	**250 "**		**20**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*48.5 %*	*25-132*		
PD-2 (2-2.5) (A304264-04)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**			
Volatile Organic Compounds by EPA Method 8260B									**R-06**
Acetone	EPA 8260B	AD32209	04/15/03	04/17/03	43.3	ND mg/kg		0.87	
Benzene	"	"	"	"	"	ND "		0.22	
Bromobenzene	"	"	"	"	"	ND "		0.22	
Bromochloromethane	"	"	"	"	"	ND "		0.22	
Bromodichloromethane	"	"	"	"	"	ND "		0.22	
Bromoform	"	"	"	"	"	ND "		0.22	
Bromomethane	"	"	"	"	"	ND "		0.22	
n-Butylbenzene	"	"	"	"	"	ND "		0.22	
sec-Butylbenzene	"	"	"	"	"	ND "		0.22	
tert-Butylbenzene	"	"	"	"	"	ND "		0.22	
Carbon tetrachloride	"	"	"	"	"	ND "		0.22	
Chlorobenzene	"	"	"	"	"	ND "		0.22	
Chloroethane	"	"	"	"	"	ND "		0.22	
Chloroform	"	"	"	"	"	ND "		0.22	

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MFG, Inc - Arcata
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Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	POL	NOTE
PD-2 (2-2.5) (A304264-04)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-06**
Chloromethane	EPA 8260B	"	"	04/17/03	"	ND "	0.22	
2-Chlorotoluene	"	"	"	"	"	ND "	0.22	
4-Chlorotoluene	"	"	"	"	"	ND "	0.22	
Dibromochloromethane	"	"	"	"	"	ND "	0.22	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.22	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.22	
Dibromomethane	"	"	"	"	"	ND "	0.22	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.22	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.22	
1,4-Dichlorobenzene	"	"	"	"	"	**0.35** "	**0.22**	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.22	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.22	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.22	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.22	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	0.22	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.22	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.22	
1,3-Dichloropropane	"	"	"	"	"	ND "	0.22	
2,2-Dichloropropane	"	"	"	"	"	ND "	0.22	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.22	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.22	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.22	
Ethylbenzene	"	"	"	"	"	ND "	0.22	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.22	
Isopropylbenzene	"	"	"	"	"	ND "	0.22	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.22	
Methyl ethyl ketone	"	"	"	"	"	ND "	0.65	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.43	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.22	
Methylene chloride	"	"	"	"	"	ND "	0.22	
Naphthalene	"	"	"	"	"	ND "	0.22	

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Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	POL	NOTE
PD-2 (2-2.5) (A304264-04)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-06**
n-Propylbenzene	EPA 8260B	"	"	04/17/03	"	ND "	0.22	
Styrene	"	"	"	"	"	ND "	0.22	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.22	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.22	
Tetrachloroethene	"	"	"	"	"	ND "	0.22	
Toluene	"	"	"	"	"	ND "	0.22	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.22	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.22	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.22	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.22	
Trichloroethene	"	"	"	"	"	ND "	0.22	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.22	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.22	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.22	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.22	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.22	
Vinyl chloride	"	"	"	"	"	ND "	0.22	
m,p-Xylene	"	"	"	"	"	ND "	0.22	
o-Xylene	"	"	"	"	"	ND "	0.22	
Xylenes (total)	"	"	"	"	"	ND "	0.22	
Surrogate: Dibromofluoromethane	"	"	"	"		*84.8 %*	*70-130*	
Surrogate: Toluene-d8	"	"	"	"		*97.2 %*	*70-130*	
Surrogate: Bromofluorobenzene	"	"	"	"		*93.5 %*	*70-130*	

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		POL	NOTE
PD-2 (2-2.5) (A304264-04)			**Sample Type: Soil**			**Sampled: 04/08/03 00:00**			
Chlorinated Phenols by Canadian Pulp Method									
2,4,6-Trichlorophenol	EnvCan	AD31611	04/10/03	04/14/03	1	ND mg/kg		1.0	
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "		1.0	
Pentachlorophenol	"	"	"	"	"	ND "		1.0	
Surrogate: Tribromophenol	"	"	"	"		*35.5 %*	*23-140*		
Conventional Chemistry Parameters by APHA/EPA Methods									
Oil & Grease (HEM-SG)	EPA 9071B	AD32307	04/17/03	04/22/03	1	**8200 mg/kg**		**50**	
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	EPA 8015DRO	AD31615	04/16/03	04/17/03	10	**140 mg/kg**		**10**	
TPH as Motor Oil	"	"	"	"	"	**850 "**		**20**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*49.5 %*	*25-132*		

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
Blank (AD32209-BLK1)				Prepared: 04/15/03 Analyzed: 04/16/03						
Acetone	ND	0.87	mg/kg							
Benzene	ND	0.22	"							
Bromobenzene	ND	0.22	"							
Bromochloromethane	ND	0.22	"							
Bromodichloromethane	ND	0.22	"							
Bromoform	ND	0.22	"							
Bromomethane	ND	0.22	"							
n-Butylbenzene	ND	0.22	"							
sec-Butylbenzene	ND	0.22	"							
tert-Butylbenzene	ND	0.22	"							
Carbon tetrachloride	ND	0.22	"							
Chlorobenzene	ND	0.22	"							
Chloroethane	ND	0.22	"							
Chloroform	ND	0.22	"							
Chloromethane	ND	0.22	"							
2-Chlorotoluene	ND	0.22	"							
4-Chlorotoluene	ND	0.22	"							
Dibromochloromethane	ND	0.22	"							
1,2-Dibromo-3-chloropropane	ND	0.22	"							
1,2-Dibromoethane (EDB)	ND	0.22	"							
Dibromomethane	ND	0.22	"							
1,2-Dichlorobenzene	ND	0.22	"							
1,3-Dichlorobenzene	ND	0.22	"							
1,4-Dichlorobenzene	ND	0.22	"							
Dichlorodifluoromethane	ND	0.22	"							
1,1-Dichloroethane	ND	0.22	"							

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
Blank (AD32209-BLK1)				Prepared: 04/15/03 Analyzed: 04/16/03						
1,2-Dichloroethane	ND	0.22	"							
1,1-Dichloroethene	ND	0.22	"							
cis-1,2-Dichloroethene	ND	0.22	"							
trans-1,2-Dichloroethene	ND	0.22	"							
1,2-Dichloropropane	ND	0.22	"							
1,3-Dichloropropane	ND	0.22	"							
2,2-Dichloropropane	ND	0.22	"							
1,1-Dichloropropene	ND	0.22	"							
cis-1,3-Dichloropropene	ND	0.22	"							
trans-1,3-Dichloropropene	ND	0.22	"							
Ethylbenzene	ND	0.22	"							
Hexachlorobutadiene	ND	0.22	"							
Isopropylbenzene	ND	0.22	"							
p-Isopropyltoluene	ND	0.22	"							
Methyl ethyl ketone	ND	0.65	"							
Methyl isobutyl ketone	ND	0.43	"							
Methyl tert-butyl ether	ND	0.22	"							
Methylene chloride	ND	0.22	"							
Naphthalene	ND	0.22	"							
n-Propylbenzene	ND	0.22	"							
Styrene	ND	0.22	"							
1,1,1,2-Tetrachloroethane	ND	0.22	"							
1,1,2,2-Tetrachloroethane	ND	0.22	"							
Tetrachloroethene	ND	0.22	"							
Toluene	ND	0.22	"							
1,2,3-Trichlorobenzene	ND	0.22	"							
1,2,4-Trichlorobenzene	ND	0.22	"							

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
Blank (AD32209-BLK1)				Prepared: 04/15/03 Analyzed: 04/16/03						
1,1,1-Trichloroethane	ND	0.22	"							
1,1,2-Trichloroethane	ND	0.22	"							
Trichloroethene	ND	0.22	"							
Trichlorofluoromethane	ND	0.22	"							
Trichlorotrifluoroethane	ND	0.22	"							
1,2,3-Trichloropropane	ND	0.22	"							
1,2,4-Trimethylbenzene	ND	0.22	"							
1,3,5-Trimethylbenzene	ND	0.22	"							
Vinyl chloride	ND	0.22	"							
m,p-Xylene	ND	0.22	"							
o-Xylene	ND	0.22	"							
Xylenes (total)	ND	0.22	"							
Surrogate: Dibromofluoromethane	*4.35*		"	*5.41*		*80.4*	*70-130*			
Surrogate: Toluene-d8	*5.47*		"	*5.41*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*4.60*		"	*5.41*		*85.0*	*70-130*			
LCS (AD32209-BS1)				Prepared: 04/15/03 Analyzed: 04/16/03						
Acetone	4.80	0.87	mg/kg	5.33		90.1	3-147			
Benzene	1.27	0.22	"	1.35		94.1	71-116			
Bromobenzene	1.46	0.22	"	1.35		108	87-112			
Bromochloromethane	1.11	0.22	"	1.35		82.2	77-113			
Bromodichloromethane	1.36	0.22	"	1.35		101	85-121			
Bromoform	1.50	0.22	"	1.35		111	86-124			
Bromomethane	1.35	0.22	"	1.35		100	47-128			
n-Butylbenzene	1.37	0.22	"	1.35		101	66-113			
sec-Butylbenzene	1.45	0.22	"	1.35		107	76-115			
tert-Butylbenzene	1.40	0.22	"	1.35		104	77-120			

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
LCS (AD32209-BS1)				Prepared: 04/15/03 Analyzed: 04/16/03						
Carbon tetrachloride	1.46	0.22	"	1.35		108	67-118			
Chlorobenzene	1.31	0.22	"	1.35		97.0	79-114			
Chloroethane	1.28	0.22	"	1.35		94.8	57-121			
Chloroform	1.33	0.22	"	1.35		98.5	75-115			
Chloromethane	1.26	0.22	"	1.35		93.3	60-110			
2-Chlorotoluene	1.55	0.22	"	1.35		115	67-127			
4-Chlorotoluene	1.49	0.22	"	1.35		110	73-110			
Dibromochloromethane	1.30	0.22	"	1.35		96.3	85-121			
1,2-Dibromo-3-chloropropane	1.46	0.22	"	1.35		108	70-120			
1,2-Dibromoethane (EDB)	1.51	0.22	"	1.35		112	82-122			
Dibromomethane	1.34	0.22	"	1.35		99.3	75-117			
1,2-Dichlorobenzene	1.39	0.22	"	1.35		103	80-115			
1,3-Dichlorobenzene	1.47	0.22	"	1.35		109	77-123			
1,4-Dichlorobenzene	1.35	0.22	"	1.35		100	66-116			
Dichlorodifluoromethane	1.16	0.22	"	1.35		85.9	54-107			
1,1-Dichloroethane	1.31	0.22	"	1.35		97.0	74-121			
1,2-Dichloroethane	1.32	0.22	"	1.35		97.8	73-116			
1,1-Dichloroethene	1.50	0.22	"	1.35		111	60-124			
cis-1,2-Dichloroethene	1.34	0.22	"	1.35		99.3	77-117			
trans-1,2-Dichloroethene	1.39	0.22	"	1.35		103	61-120			
1,2-Dichloropropane	1.31	0.22	"	1.35		97.0	79-120			
1,3-Dichloropropane	1.37	0.22	"	1.35		101	80-116			
2,2-Dichloropropane	1.30	0.22	"	1.35		96.3	27-151			
1,1-Dichloropropene	1.27	0.22	"	1.35		94.1	57-119			
cis-1,3-Dichloropropene	1.31	0.22	"	1.35		97.0	81-119			
trans-1,3-Dichloropropene	1.38	0.22	"	1.35		102	86-128			
Ethylbenzene	1.47	0.22	"	1.35		109	79-114			

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MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
LCS (AD32209-BS1)				Prepared: 04/15/03 Analyzed: 04/16/03						
Hexachlorobutadiene	1.54	0.22	"	1.35		114	68-131			
Isopropylbenzene	1.41	0.22	"	1.35		104	77-113			
p-Isopropyltoluene	1.35	0.22	"	1.35		100	74-115			
Methyl ethyl ketone	2.49	0.65	"	2.71		91.9	19-150			
Methyl isobutyl ketone	2.25	0.43	"	2.69		83.6	53-137			
Methyl tert-butyl ether	1.41	0.22	"	1.35		104	59-128			
Methylene chloride	1.39	0.22	"	1.35		103	72-114			
Naphthalene	1.41	0.22	"	1.35		104	75-118			
n-Propylbenzene	1.37	0.22	"	1.35		101	75-114			
Styrene	1.44	0.22	"	1.35		107	82-114			
1,1,1,2-Tetrachloroethane	1.56	0.22	"	1.35		116	84-118			
1,1,2,2-Tetrachloroethane	1.36	0.22	"	1.35		101	81-121			
Tetrachloroethene	1.46	0.22	"	1.35		108	66-124			
Toluene	1.52	0.22	"	1.35		113	73-124			
1,2,3-Trichlorobenzene	1.38	0.22	"	1.35		102	68-119			
1,2,4-Trichlorobenzene	1.41	0.22	"	1.35		104	58-120			
1,1,1-Trichloroethane	1.26	0.22	"	1.35		93.3	69-114			
1,1,2-Trichloroethane	1.41	0.22	"	1.35		104	84-119			
Trichloroethene	1.33	0.22	"	1.35		98.5	77-118			
Trichlorofluoromethane	1.28	0.22	"	1.35		94.8	63-115			
Trichlorotrifluoroethane	1.24	0.22	"	1.33		93.2	61-119			
1,2,3-Trichloropropane	1.43	0.22	"	1.35		106	86-123			
1,2,4-Trimethylbenzene	1.44	0.22	"	1.35		107	75-111			
1,3,5-Trimethylbenzene	1.40	0.22	"	1.35		104	77-114			
Vinyl chloride	1.16	0.22	"	1.35		85.9	47-142			
m,p-Xylene	2.98	0.22	"	2.70		110	75-113			
o-Xylene	1.53	0.22	"	1.35		113	67-126			

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1165 G. Street, Suite E
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Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
LCS (AD32209-BS1)				Prepared: 04/15/03 Analyzed: 04/16/03						
Xylenes (total)	4.51	0.22	"	4.05		111	75-113			
Surrogate: Dibromofluoromethane	*4.85*		"	*5.41*		*89.6*	*70-130*			
Surrogate: Toluene-d8	*5.69*		"	*5.41*		*105*	*70-130*			
Surrogate: Bromofluorobenzene	*5.76*		"	*5.41*		*106*	*70-130*			
LCS Dup (AD32209-BSD1)				Prepared: 04/15/03 Analyzed: 04/16/03						
Acetone	4.62	0.87	mg/kg	5.33		86.7	3-147	3.82	25	
Benzene	1.24	0.22	"	1.35		91.9	71-116	2.39	25	
Bromobenzene	1.44	0.22	"	1.35		107	87-112	1.38	25	
Bromochloromethane	1.17	0.22	"	1.35		86.7	77-113	5.26	25	
Bromodichloromethane	1.22	0.22	"	1.35		90.4	85-121	10.9	25	
Bromoform	1.48	0.22	"	1.35		110	86-124	1.34	25	
Bromomethane	1.37	0.22	"	1.35		101	47-128	1.47	25	
n-Butylbenzene	1.37	0.22	"	1.35		101	66-113	0.00	25	
sec-Butylbenzene	1.39	0.22	"	1.35		103	76-115	4.23	25	
tert-Butylbenzene	1.40	0.22	"	1.35		104	77-120	0.00	25	
Carbon tetrachloride	1.42	0.22	"	1.35		105	67-118	2.78	25	
Chlorobenzene	1.39	0.22	"	1.35		103	79-114	5.93	25	
Chloroethane	1.20	0.22	"	1.35		88.9	57-121	6.45	25	
Chloroform	1.28	0.22	"	1.35		94.8	75-115	3.83	25	
Chloromethane	1.16	0.22	"	1.35		85.9	60-110	8.26	25	
2-Chlorotoluene	1.48	0.22	"	1.35		110	75-113	4.62	25	
4-Chlorotoluene	1.46	0.22	"	1.35		108	73-110	2.03	25	
Dibromochloromethane	1.46	0.22	"	1.35		108	85-121	11.6	25	
1,2-Dibromo-3-chloropropane	1.42	0.22	"	1.35		105	70-120	2.78	25	
1,2-Dibromoethane (EDB)	1.47	0.22	"	1.35		109	82-122	2.68	25	
Dibromomethane	1.36	0.22	"	1.35		101	75-117	1.48	25	

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1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
LCS Dup (AD32209-BSD1)				Prepared: 04/15/03 Analyzed: 04/16/03						
1,2-Dichlorobenzene	1.37	0.22	"	1.35		101	80-115	1.45	25	
1,3-Dichlorobenzene	1.43	0.22	"	1.35		106	77-123	2.76	25	
1,4-Dichlorobenzene	1.35	0.22	"	1.35		100	66-116	0.00	25	
Dichlorodifluoromethane	1.13	0.22	"	1.35		83.7	54-107	2.62	25	
1,1-Dichloroethane	1.38	0.22	"	1.35		102	74-121	5.20	25	
1,2-Dichloroethane	1.27	0.22	"	1.35		94.1	73-116	3.86	25	
1,1-Dichloroethene	1.35	0.22	"	1.35		100	60-124	10.5	25	
cis-1,2-Dichloroethene	1.26	0.22	"	1.35		93.3	77-117	6.15	25	
trans-1,2-Dichloroethene	1.35	0.22	"	1.35		100	61-120	2.92	25	
1,2-Dichloropropane	1.22	0.22	"	1.35		90.4	79-120	7.11	25	
1,3-Dichloropropane	1.44	0.22	"	1.35		107	80-116	4.98	25	
2,2-Dichloropropane	1.31	0.22	"	1.35		97.0	27-151	0.766	25	
1,1-Dichloropropene	1.28	0.22	"	1.35		94.8	57-119	0.784	25	
cis-1,3-Dichloropropene	1.29	0.22	"	1.35		95.6	81-119	1.54	25	
trans-1,3-Dichloropropene	1.37	0.22	"	1.35		101	86-128	0.727	25	
Ethylbenzene	1.41	0.22	"	1.35		104	79-114	4.17	25	
Hexachlorobutadiene	1.52	0.22	"	1.35		113	68-131	1.31	25	
Isopropylbenzene	1.38	0.22	"	1.35		102	77-113	2.15	25	
p-Isopropyltoluene	1.33	0.22	"	1.35		98.5	74-115	1.49	25	
Methyl ethyl ketone	2.39	0.65	"	2.71		88.2	19-150	4.10	25	
Methyl isobutyl ketone	2.08	0.43	"	2.69		77.3	53-137	7.85	25	
Methyl tert-butyl ether	1.29	0.22	"	1.35		95.6	59-128	8.89	25	
Methylene chloride	1.31	0.22	"	1.35		97.0	72-114	5.93	25	
Naphthalene	1.41	0.22	"	1.35		104	75-118	0.00	25	
n-Propylbenzene	1.37	0.22	"	1.35		101	75-114	0.00	25	
Styrene	1.37	0.22	"	1.35		101	82-114	4.98	25	
1,1,1,2-Tetrachloroethane	1.56	0.22	"	1.35		116	84-118	0.00	25	

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
LCS Dup (AD32209-BSD1)				Prepared: 04/15/03 Analyzed: 04/16/03						
1,1,2,2-Tetrachloroethane	1.34	0.22	"	1.35		99.3	81-121	1.48	25	
Tetrachloroethene	1.40	0.22	"	1.35		104	66-124	4.20	25	
Toluene	1.49	0.22	"	1.35		110	73-124	1.99	25	
1,2,3-Trichlorobenzene	1.43	0.22	"	1.35		106	68-119	3.56	25	
1,2,4-Trichlorobenzene	1.43	0.22	"	1.35		106	58-120	1.41	25	
1,1,1-Trichloroethane	1.33	0.22	"	1.35		98.5	69-114	5.41	25	
1,1,2-Trichloroethane	1.35	0.22	"	1.35		100	84-119	4.35	25	
Trichloroethene	1.22	0.22	"	1.35		90.4	77-118	8.63	25	
Trichlorofluoromethane	1.24	0.22	"	1.35		91.9	63-115	3.17	25	
Trichlorotrifluoroethane	1.28	0.22	"	1.33		96.2	61-119	3.17	25	
1,2,3-Trichloropropane	1.39	0.22	"	1.35		103	86-123	2.84	25	
1,2,4-Trimethylbenzene	1.41	0.22	"	1.35		104	75-111	2.11	25	
1,3,5-Trimethylbenzene	1.38	0.22	"	1.35		102	77-114	1.44	25	
Vinyl chloride	1.11	0.22	"	1.35		82.2	47-142	4.41	25	
m,p-Xylene	2.93	0.22	"	2.70		109	75-113	1.69	25	
o-Xylene	1.47	0.22	"	1.35		109	79-112	4.00	25	
Xylenes (total)	4.39	0.22	"	4.05		108	75-113	2.70	25	
Surrogate: Dibromofluoromethane	*4.47*		"	*5.41*		*82.6*	*70-130*			
Surrogate: Toluene-d8	*5.67*		"	*5.41*		*105*	*70-130*			
Surrogate: Bromofluorobenzene	*5.59*		"	*5.41*		*103*	*70-130*			
Matrix Spike (AD32209-MS1)		**Source: A304264-01**		Prepared: 04/15/03 Analyzed: 04/16/03						
Acetone	5.01	0.87	mg/kg	5.33	ND	94.0	3-147			
Benzene	1.28	0.22	"	1.35	ND	94.8	71-116			
Bromobenzene	1.35	0.22	"	1.35	ND	100	87-112			
Bromochloromethane	1.20	0.22	"	1.35	ND	88.9	77-113			
Bromodichloromethane	1.38	0.22	"	1.35	ND	102	85-121			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD32209 - EPA 5030 Soil MS										
Matrix Spike (AD32209-MS1)	**Source: A304264-01**			Prepared: 04/15/03		Analyzed: 04/16/03				
Bromoform	1.38	0.22	"	1.35	ND	102	86-124			
Bromomethane	1.48	0.22	"	1.35	ND	110	47-128			
n-Butylbenzene	1.38	0.22	"	1.35	ND	102	66-113			
sec-Butylbenzene	1.40	0.22	"	1.35	ND	104	76-115			
tert-Butylbenzene	1.37	0.22	"	1.35	ND	101	77-120			
Carbon tetrachloride	1.48	0.22	"	1.35	ND	110	67-118			
Chlorobenzene	1.34	0.22	"	1.35	ND	99.3	79-114			
Chloroethane	1.29	0.22	"	1.35	ND	95.6	57-121			
Chloroform	1.35	0.22	"	1.35	ND	100	75-115			
Chloromethane	1.39	0.22	"	1.35	ND	103	60-110			
2-Chlorotoluene	1.46	0.22	"	1.35	ND	108	75-113			
4-Chlorotoluene	1.42	0.22	"	1.35	ND	105	73-110			
Dibromochloromethane	1.24	0.22	"	1.35	ND	91.9	85-121			
1,2-Dibromo-3-chloropropane	1.40	0.22	"	1.35	ND	104	70-120			
1,2-Dibromoethane (EDB)	1.22	0.22	"	1.35	ND	90.4	82-122			
Dibromomethane	1.39	0.22	"	1.35	ND	103	75-117			
1,2-Dichlorobenzene	1.35	0.22	"	1.35	ND	100	80-115			
1,3-Dichlorobenzene	1.38	0.22	"	1.35	ND	102	77-123			
1,4-Dichlorobenzene	1.32	0.22	"	1.35	ND	97.8	66-116			
Dichlorodifluoromethane	1.24	0.22	"	1.35	ND	91.9	54-107			
1,1-Dichloroethane	1.53	0.22	"	1.35	ND	113	74-121			
1,2-Dichloroethane	1.42	0.22	"	1.35	ND	105	73-116			
1,1-Dichloroethene	1.55	0.22	"	1.35	ND	115	60-124			
cis-1,2-Dichloroethene	1.39	0.22	"	1.35	ND	103	77-117			
trans-1,2-Dichloroethene	1.46	0.22	"	1.35	ND	108	61-120			
1,2-Dichloropropane	1.20	0.22	"	1.35	ND	88.9	79-120			
1,3-Dichloropropane	1.25	0.22	"	1.35	ND	92.6	80-116			

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

CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
Matrix Spike (AD32209-MS1)	**Source: A304264-01**			Prepared: 04/15/03		Analyzed: 04/16/03				
2,2-Dichloropropane	1.42	0.22	"	1.35	ND	105	27-151			
1,1-Dichloropropene	1.31	0.22	"	1.35	ND	97.0	57-119			
cis-1,3-Dichloropropene	1.24	0.22	"	1.35	ND	91.9	81-119			
trans-1,3-Dichloropropene	1.21	0.22	"	1.35	ND	89.6	86-128			
Ethylbenzene	1.34	0.22	"	1.35	ND	99.3	79-114			
Hexachlorobutadiene	1.61	0.22	"	1.35	ND	119	18-170			
Isopropylbenzene	1.34	0.22	"	1.35	ND	99.3	77-113			
p-Isopropyltoluene	1.30	0.22	"	1.35	ND	96.3	74-115			
Methyl ethyl ketone	2.69	0.65	"	2.71	ND	99.3	19-150			
Methyl isobutyl ketone	2.36	0.43	"	2.69	ND	87.7	53-137			
Methyl tert-butyl ether	1.35	0.22	"	1.35	ND	100	59-128			
Methylene chloride	1.46	0.22	"	1.35	ND	108	72-114			
Naphthalene	1.36	0.22	"	1.35	ND	101	75-118			
n-Propylbenzene	1.33	0.22	"	1.35	ND	98.5	75-114			
Styrene	1.32	0.22	"	1.35	ND	97.8	82-114			
1,1,1,2-Tetrachloroethane	1.44	0.22	"	1.35	ND	107	84-118			
1,1,2,2-Tetrachloroethane	1.27	0.22	"	1.35	ND	94.1	81-121			
Tetrachloroethene	1.33	0.22	"	1.35	ND	98.5	66-124			
Toluene	1.39	0.22	"	1.35	ND	103	73-124			
1,2,3-Trichlorobenzene	1.38	0.22	"	1.35	ND	102	68-119			
1,2,4-Trichlorobenzene	1.41	0.22	"	1.35	ND	104	58-120			
1,1,1-Trichloroethane	1.48	0.22	"	1.35	ND	110	69-114			
1,1,2-Trichloroethane	1.22	0.22	"	1.35	ND	90.4	84-119			
Trichloroethene	1.33	0.22	"	1.35	ND	98.5	77-118			
Trichlorofluoromethane	1.42	0.22	"	1.35	ND	105	63-115			
Trichlorotrifluoroethane	1.32	0.22	"	1.33	ND	99.2	61-119			
1,2,3-Trichloropropane	1.26	0.22	"	1.35	ND	93.3	86-123			

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Project Manager

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MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32209 - EPA 5030 Soil MS										
Matrix Spike (AD32209-MS1)	**Source: A304264-01**			Prepared: 04/15/03 Analyzed: 04/16/03						
1,2,4-Trimethylbenzene	1.39	0.22	"	1.35	ND	103	75-111			
1,3,5-Trimethylbenzene	1.34	0.22	"	1.35	ND	99.3	77-114			
Vinyl chloride	1.24	0.22	"	1.35	ND	91.9	47-142			
m,p-Xylene	2.81	0.22	"	2.70	ND	104	75-113			
o-Xylene	1.43	0.22	"	1.35	ND	106	79-112			
Xylenes (total)	4.24	0.22	"	4.05	ND	105	75-113			
Surrogate: Dibromofluoromethane	*5.33*		"	*5.41*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*5.41*		"	*5.41*		*100*	*70-130*			
Surrogate: Bromofluorobenzene	*5.46*		"	*5.41*		*101*	*70-130*			
Batch AD32511 - EPA 5030 Soil MS										
Blank (AD32511-BLK1)				Prepared: 04/21/03 Analyzed: 04/22/03						
Acetone	ND	0.020	mg/kg							
Benzene	ND	0.0050	"							
Bromobenzene	ND	0.0050	"							
Bromochloromethane	ND	0.0050	"							
Bromodichloromethane	ND	0.0050	"							
Bromoform	ND	0.0050	"							
Bromomethane	ND	0.0050	"							
n-Butylbenzene	ND	0.0050	"							
sec-Butylbenzene	ND	0.0050	"							
tert-Butylbenzene	ND	0.0050	"							
Carbon tetrachloride	ND	0.0050	"							
Chlorobenzene	ND	0.0050	"							
Chloroethane	ND	0.0050	"							
Chloroform	ND	0.0050	"							

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Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32511 - EPA 5030 Soil MS										
Blank (AD32511-BLK1)				Prepared: 04/21/03 Analyzed: 04/22/03						
Chloromethane	ND	0.0050	"							
2-Chlorotoluene	ND	0.0050	"							
4-Chlorotoluene	ND	0.0050	"							
Dibromochloromethane	ND	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Dibromomethane	ND	0.0050	"							
1,2-Dichlorobenzene	ND	0.0050	"							
1,3-Dichlorobenzene	ND	0.0050	"							
1,4-Dichlorobenzene	ND	0.0050	"							
Dichlorodifluoromethane	ND	0.0050	"							
1,1-Dichloroethane	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
1,1-Dichloroethene	ND	0.0050	"							
cis-1,2-Dichloroethene	ND	0.0050	"							
trans-1,2-Dichloroethene	ND	0.0050	"							
1,2-Dichloropropane	ND	0.0050	"							
1,3-Dichloropropane	ND	0.0050	"							
2,2-Dichloropropane	ND	0.0050	"							
1,1-Dichloropropene	ND	0.0050	"							
cis-1,3-Dichloropropene	ND	0.0050	"							
trans-1,3-Dichloropropene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Hexachlorobutadiene	ND	0.0050	"							
Isopropylbenzene	ND	0.0050	"							
p-Isopropyltoluene	ND	0.0050	"							
Methyl ethyl ketone	ND	0.015	"							

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32511 - EPA 5030 Soil MS										
Blank (AD32511-BLK1)				Prepared: 04/21/03 Analyzed: 04/22/03						
Methyl isobutyl ketone	ND	0.010	"							
Methyl tert-butyl ether	ND	0.0050	"							
Methylene chloride	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
n-Propylbenzene	ND	0.0050	"							
Styrene	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
Tetrachloroethene	ND	0.0050	"							
Toluene	ND	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0050	"							
Trichlorofluoromethane	ND	0.0050	"							
Trichlorotrifluoroethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
m,p-Xylene	ND	0.0050	"							
o-Xylene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: Dibromofluoromethane	*0.140*		"	*0.125*		*112*	*70-130*			
Surrogate: Toluene-d8	*0.124*		"	*0.125*		*99.2*	*70-130*			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32511 - EPA 5030 Soil MS										
Blank (AD32511-BLK1)				Prepared: 04/21/03 Analyzed: 04/22/03						
Surrogate: Bromofluorobenzene	*0.107*		"	*0.125*		*85.6*	*70-130*			
LCS (AD32511-BS1)				Prepared: 04/21/03 Analyzed: 04/23/03						
Acetone	0.159	0.020	mg/kg	0.123		129	3-147			
Benzene	0.0279	0.0050	"	0.0312		89.4	71-116			
Bromobenzene	0.0286	0.0050	"	0.0312		91.7	87-112			
Bromochloromethane	0.0292	0.0050	"	0.0312		93.6	77-113			
Bromodichloromethane	0.0272	0.0050	"	0.0312		87.2	85-121			
Bromoform	0.0276	0.0050	"	0.0312		88.5	86-124			
Bromomethane	0.0261	0.0050	"	0.0312		83.7	47-128			
n-Butylbenzene	0.0244	0.0050	"	0.0312		78.2	66-113			
sec-Butylbenzene	0.0260	0.0050	"	0.0312		83.3	76-115			
tert-Butylbenzene	0.0249	0.0050	"	0.0312		79.8	77-120			
Carbon tetrachloride	0.0270	0.0050	"	0.0312		86.5	67-118			
Chlorobenzene	0.0281	0.0050	"	0.0312		90.1	79-114			
Chloroethane	0.0270	0.0050	"	0.0312		86.5	57-121			
Chloroform	0.0290	0.0050	"	0.0312		92.9	75-115			
Chloromethane	0.0300	0.0050	"	0.0312		96.2	60-110			
2-Chlorotoluene	0.0275	0.0050	"	0.0312		88.1	75-113			
4-Chlorotoluene	0.0251	0.0050	"	0.0312		80.4	73-110			
Dibromochloromethane	0.0252	0.0050	"	0.0312		80.8	56-141			
1,2-Dibromo-3-chloropropane	0.0308	0.0050	"	0.0312		98.7	70-120			
1,2-Dibromoethane (EDB)	0.0298	0.0050	"	0.0312		95.5	82-122			
Dibromomethane	0.0271	0.0050	"	0.0312		86.9	75-117			
1,2-Dichlorobenzene	0.0262	0.0050	"	0.0312		84.0	80-115			
1,3-Dichlorobenzene	0.0258	0.0050	"	0.0312		82.7	77-123			
1,4-Dichlorobenzene	0.0259	0.0050	"	0.0312		83.0	66-116			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32511 - EPA 5030 Soil MS										
LCS (AD32511-BS1)				Prepared: 04/21/03 Analyzed: 04/23/03						
Dichlorodifluoromethane	0.0326	0.0050	"	0.0312		104	54-107			
1,1-Dichloroethane	0.0278	0.0050	"	0.0312		89.1	74-121			
1,2-Dichloroethane	0.0288	0.0050	"	0.0312		92.3	73-116			
1,1-Dichloroethene	0.0298	0.0050	"	0.0312		95.5	60-124			
cis-1,2-Dichloroethene	0.0276	0.0050	"	0.0312		88.5	77-117			
trans-1,2-Dichloroethene	0.0276	0.0050	"	0.0312		88.5	61-120			
1,2-Dichloropropane	0.0281	0.0050	"	0.0312		90.1	79-120			
1,3-Dichloropropane	0.0311	0.0050	"	0.0312		99.7	80-116			
2,2-Dichloropropane	0.0326	0.0050	"	0.0312		104	27-151			
1,1-Dichloropropene	0.0294	0.0050	"	0.0312		94.2	57-119			
cis-1,3-Dichloropropene	0.0266	0.0050	"	0.0312		85.3	81-119			
trans-1,3-Dichloropropene	0.0274	0.0050	"	0.0312		87.8	86-128			
Ethylbenzene	0.0256	0.0050	"	0.0312		82.1	79-114			
Hexachlorobutadiene	0.0280	0.0050	"	0.0312		89.7	64-112			
Isopropylbenzene	0.0278	0.0050	"	0.0312		89.1	77-113			
p-Isopropyltoluene	0.0232	0.0050	"	0.0312		74.4	74-115			
Methyl ethyl ketone	0.0644	0.015	"	0.0627		103	19-150			
Methyl isobutyl ketone	0.0556	0.010	"	0.0624		89.1	53-137			
Methyl tert-butyl ether	0.0282	0.0050	"	0.0312		90.4	59-128			
Methylene chloride	0.0340	0.0050	"	0.0312		109	72-114			
Naphthalene	0.0284	0.0050	"	0.0312		91.0	75-118			
n-Propylbenzene	0.0252	0.0050	"	0.0312		80.8	75-114			
Styrene	0.0253	0.0050	"	0.0312		81.1	65-126			
1,1,1,2-Tetrachloroethane	0.0286	0.0050	"	0.0312		91.7	84-118			
1,1,2,2-Tetrachloroethane	0.0286	0.0050	"	0.0312		91.7	81-121			
Tetrachloroethene	0.0411	0.0050	"	0.0312		132	52-138			
Toluene	0.0294	0.0050	"	0.0312		94.2	73-124			

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD32511 - EPA 5030 Soil MS										
LCS (AD32511-BS1)				Prepared: 04/21/03 Analyzed: 04/23/03						
1,2,3-Trichlorobenzene	0.0277	0.0050	"	0.0312		88.8	68-119			
1,2,4-Trichlorobenzene	0.0254	0.0050	"	0.0312		81.4	58-120			
1,1,1-Trichloroethane	0.0291	0.0050	"	0.0312		93.3	69-114			
1,1,2-Trichloroethane	0.0302	0.0050	"	0.0312		96.8	84-119			
Trichloroethene	0.0304	0.0050	"	0.0312		97.4	77-118			
Trichlorofluoromethane	0.0273	0.0050	"	0.0312		87.5	63-115			
Trichlorotrifluoroethane	0.0277	0.0050	"	0.0308		89.9	61-119			
1,2,3-Trichloropropane	0.0310	0.0050	"	0.0312		99.4	86-123			
1,2,4-Trimethylbenzene	0.0254	0.0050	"	0.0312		81.4	75-111			
1,3,5-Trimethylbenzene	0.0241	0.0050	"	0.0312		77.2	77-114			
Vinyl chloride	0.0292	0.0050	"	0.0312		93.6	47-142			
m,p-Xylene	0.0542	0.0050	"	0.0625		86.7	75-113			
o-Xylene	0.0264	0.0050	"	0.0312		84.6	79-112			
Xylenes (total)	0.0806	0.0050	"	0.0938		85.9	75-113			
Surrogate: Dibromofluoromethane	*0.144*		"	*0.125*		*115*	*70-130*			
Surrogate: Toluene-d8	*0.147*		"	*0.125*		*118*	*70-130*			
Surrogate: Bromofluorobenzene	*0.136*		"	*0.125*		*109*	*70-130*			
LCS Dup (AD32511-BSD1)				Prepared: 04/21/03 Analyzed: 04/23/03						
Acetone	0.154	0.020	mg/kg	0.123		125	3-147	3.19	25	
Benzene	0.0286	0.0050	"	0.0312		91.7	71-116	2.48	25	
Bromobenzene	0.0256	0.0050	"	0.0312		82.1	71-127	11.1	25	
Bromochloromethane	0.0286	0.0050	"	0.0312		91.7	77-113	2.08	25	
Bromodichloromethane	0.0278	0.0050	"	0.0312		89.1	85-121	2.18	25	
Bromoform	0.0233	0.0050	"	0.0312		74.7	57-138	16.9	25	
Bromomethane	0.0254	0.0050	"	0.0312		81.4	47-128	2.72	25	
n-Butylbenzene	0.0222	0.0050	"	0.0312		71.2	66-113	9.44	25	

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD32511 - EPA 5030 Soil MS										
LCS Dup (AD32511-BSD1)				Prepared: 04/21/03 Analyzed: 04/23/03						
sec-Butylbenzene	0.0244	0.0050	"	0.0312		78.2	76-115	6.35	25	
tert-Butylbenzene	0.0240	0.0050	"	0.0312		76.9	66-124	3.68	25	
Carbon tetrachloride	0.0271	0.0050	"	0.0312		86.9	67-118	0.370	25	
Chlorobenzene	0.0260	0.0050	"	0.0312		83.3	79-114	7.76	25	
Chloroethane	0.0282	0.0050	"	0.0312		90.4	57-121	4.35	25	
Chloroform	0.0298	0.0050	"	0.0312		95.5	75-115	2.72	25	
Chloromethane	0.0300	0.0050	"	0.0312		96.2	60-110	0.00	25	
2-Chlorotoluene	0.0270	0.0050	"	0.0312		86.5	75-113	1.83	25	
4-Chlorotoluene	0.0239	0.0050	"	0.0312		76.6	73-110	4.90	25	
Dibromochloromethane	0.0245	0.0050	"	0.0312		78.5	56-141	2.82	25	
1,2-Dibromo-3-chloropropane	0.0284	0.0050	"	0.0312		91.0	70-120	8.11	25	
1,2-Dibromoethane (EDB)	0.0292	0.0050	"	0.0312		93.6	82-122	2.03	25	
Dibromomethane	0.0280	0.0050	"	0.0312		89.7	75-117	3.27	25	
1,2-Dichlorobenzene	0.0242	0.0050	"	0.0312		77.6	67-117	7.94	25	
1,3-Dichlorobenzene	0.0238	0.0050	"	0.0312		76.3	65-124	8.06	25	
1,4-Dichlorobenzene	0.0236	0.0050	"	0.0312		75.6	66-116	9.29	25	
Dichlorodifluoromethane	0.0336	0.0050	"	0.0312		108	52-145	3.02	25	
1,1-Dichloroethane	0.0286	0.0050	"	0.0312		91.7	74-121	2.84	25	
1,2-Dichloroethane	0.0290	0.0050	"	0.0312		92.9	73-116	0.692	25	
1,1-Dichloroethene	0.0290	0.0050	"	0.0312		92.9	60-124	2.72	25	
cis-1,2-Dichloroethene	0.0276	0.0050	"	0.0312		88.5	77-117	0.00	25	
trans-1,2-Dichloroethene	0.0244	0.0050	"	0.0312		78.2	61-120	12.3	25	
1,2-Dichloropropane	0.0300	0.0050	"	0.0312		96.2	79-120	6.54	25	
1,3-Dichloropropane	0.0292	0.0050	"	0.0312		93.6	80-116	6.30	25	
2,2-Dichloropropane	0.0328	0.0050	"	0.0312		105	27-151	0.612	25	
1,1-Dichloropropene	0.0288	0.0050	"	0.0312		92.3	57-119	2.06	25	
cis-1,3-Dichloropropene	0.0280	0.0050	"	0.0312		89.7	81-119	5.13	25	

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32511 - EPA 5030 Soil MS										
LCS Dup (AD32511-BSD1)				Prepared: 04/21/03 Analyzed: 04/23/03						
trans-1,3-Dichloropropene	0.0260	0.0050	"	0.0312		83.3	55-133	5.24	25	
Ethylbenzene	0.0248	0.0050	"	0.0312		79.5	79-114	3.17	25	
Hexachlorobutadiene	0.0261	0.0050	"	0.0312		83.7	64-112	7.02	25	
Isopropylbenzene	0.0257	0.0050	"	0.0312		82.4	77-113	7.85	25	
p-Isopropyltoluene	0.0220	0.0050	"	0.0312		70.5	62-120	5.31	25	
Methyl ethyl ketone	0.0680	0.015	"	0.0627		108	19-150	5.44	25	
Methyl isobutyl ketone	0.0560	0.010	"	0.0624		89.7	53-137	0.717	25	
Methyl tert-butyl ether	0.0289	0.0050	"	0.0312		92.6	59-128	2.45	25	
Methylene chloride	0.0326	0.0050	"	0.0312		104	72-114	4.20	25	
Naphthalene	0.0274	0.0050	"	0.0312		87.8	75-118	3.58	25	
n-Propylbenzene	0.0256	0.0050	"	0.0312		82.1	75-114	1.57	25	
Styrene	0.0249	0.0050	"	0.0312		79.8	65-126	1.59	25	
1,1,1,2-Tetrachloroethane	0.0268	0.0050	"	0.0312		85.9	84-118	6.50	25	
1,1,2,2-Tetrachloroethane	0.0252	0.0050	"	0.0312		80.8	65-136	12.6	25	
Tetrachloroethene	0.0388	0.0050	"	0.0312		124	66-124	5.76	25	
Toluene	0.0276	0.0050	"	0.0312		88.5	73-124	6.32	25	
1,2,3-Trichlorobenzene	0.0262	0.0050	"	0.0312		84.0	68-119	5.57	25	
1,2,4-Trichlorobenzene	0.0248	0.0050	"	0.0312		79.5	58-120	2.39	25	
1,1,1-Trichloroethane	0.0274	0.0050	"	0.0312		87.8	69-114	6.02	25	
1,1,2-Trichloroethane	0.0284	0.0050	"	0.0312		91.0	84-119	6.14	25	
Trichloroethene	0.0307	0.0050	"	0.0312		98.4	77-118	0.982	25	
Trichlorofluoromethane	0.0272	0.0050	"	0.0312		87.2	63-115	0.367	25	
Trichlorotrifluoroethane	0.0269	0.0050	"	0.0308		87.3	61-119	2.93	25	
1,2,3-Trichloropropane	0.0278	0.0050	"	0.0312		89.1	86-123	10.9	25	
1,2,4-Trimethylbenzene	0.0237	0.0050	"	0.0312		76.0	75-111	6.92	25	
1,3,5-Trimethylbenzene	0.0227	0.0050	"	0.0312		72.8	65-123	5.98	25	
Vinyl chloride	0.0293	0.0050	"	0.0312		93.9	47-142	0.342	25	

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32511 - EPA 5030 Soil MS										
LCS Dup (AD32511-BSD1)				Prepared: 04/21/03 Analyzed: 04/23/03						
m,p-Xylene	0.0498	0.0050	"	0.0625		79.7	75-113	8.46	25	
o-Xylene	0.0244	0.0050	"	0.0312		78.2	67-126	7.87	25	
Xylenes (total)	0.0742	0.0050	"	0.0938		79.1	75-113	8.27	25	
Surrogate: Dibromofluoromethane	*0.148*		"	*0.125*		*118*	*70-130*			
Surrogate: Toluene-d8	*0.140*		"	*0.125*		*112*	*70-130*			
Surrogate: Bromofluorobenzene	*0.129*		"	*0.125*		*103*	*70-130*			
Matrix Spike (AD32511-MS1)		**Source: A304264-01**		Prepared: 04/21/03 Analyzed: 04/23/03						
Acetone	0.123	0.020	mg/kg	0.123	ND	100	3-147			
Benzene	0.0240	0.0050	"	0.0312	ND	76.9	71-116			
Bromobenzene	0.0171	0.0050	"	0.0312	ND	54.8	55-136			QM-07
Bromochloromethane	0.0224	0.0050	"	0.0312	ND	71.8	58-133			
Bromodichloromethane	0.0236	0.0050	"	0.0312	ND	75.6	51-126			
Bromoform	0.0201	0.0050	"	0.0312	ND	64.4	47-138			
Bromomethane	0.0171	0.0050	"	0.0312	ND	54.8	47-128			
n-Butylbenzene	0.00725	0.0050	"	0.0312	ND	23.2	29-153			QM-07
sec-Butylbenzene	0.00970	0.0050	"	0.0312	ND	31.1	44-148			QM-07
tert-Butylbenzene	0.0114	0.0050	"	0.0312	ND	36.5	49-141			QM-07
Carbon tetrachloride	0.0231	0.0050	"	0.0312	ND	74.0	67-118			
Chlorobenzene	0.0190	0.0050	"	0.0312	ND	60.9	54-130			
Chloroethane	0.0250	0.0050	"	0.0312	ND	80.1	57-121			
Chloroform	0.0254	0.0050	"	0.0312	ND	81.4	75-115			
Chloromethane	0.0186	0.0050	"	0.0312	ND	59.6	57-130			
2-Chlorotoluene	0.0144	0.0050	"	0.0312	ND	46.2	52-140			QM-07
4-Chlorotoluene	0.0140	0.0050	"	0.0312	ND	44.9	49-139			QM-07
Dibromochloromethane	0.0200	0.0050	"	0.0312	ND	64.1	48-135			
1,2-Dibromo-3-chloropropane	0.0230	0.0050	"	0.0312	ND	73.7	70-120			

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32511 - EPA 5030 Soil MS										
Matrix Spike (AD32511-MS1)		**Source: A304264-01**		Prepared: 04/21/03		Analyzed: 04/23/03				
1,2-Dibromoethane (EDB)	0.0225	0.0050	"	0.0312	ND	72.1	36-156			
Dibromomethane	0.0232	0.0050	"	0.0312	ND	74.4	53-137			
1,2-Dichlorobenzene	0.0142	0.0050	"	0.0312	ND	45.5	44-137			
1,3-Dichlorobenzene	0.0120	0.0050	"	0.0312	ND	38.5	44-137			QM-07
1,4-Dichlorobenzene	0.0140	0.0050	"	0.0312	ND	44.9	44-137			
Dichlorodifluoromethane	0.0305	0.0050	"	0.0312	ND	97.8	54-107			
1,1-Dichloroethane	0.0264	0.0050	"	0.0312	ND	84.6	74-121			
1,2-Dichloroethane	0.0250	0.0050	"	0.0312	ND	80.1	73-116			
1,1-Dichloroethene	0.0262	0.0050	"	0.0312	ND	84.0	60-124			
cis-1,2-Dichloroethene	0.0222	0.0050	"	0.0312	ND	71.2	54-129			
trans-1,2-Dichloroethene	0.0178	0.0050	"	0.0312	ND	57.1	61-120			QM-07
1,2-Dichloropropane	0.0258	0.0050	"	0.0312	ND	82.7	79-120			
1,3-Dichloropropane	0.0251	0.0050	"	0.0312	ND	80.4	80-116			
2,2-Dichloropropane	0.0284	0.0050	"	0.0312	ND	91.0	27-151			
1,1-Dichloropropene	0.0222	0.0050	"	0.0312	ND	71.2	57-119			
cis-1,3-Dichloropropene	0.0206	0.0050	"	0.0312	ND	66.0	55-129			
trans-1,3-Dichloropropene	0.0196	0.0050	"	0.0312	ND	62.8	34-139			
Ethylbenzene	0.0164	0.0050	"	0.0312	ND	52.6	55-138			QM-07
Hexachlorobutadiene	0.00500	0.0050	"	0.0312	ND	16.0	16-172			
Isopropylbenzene	0.0152	0.0050	"	0.0312	ND	48.7	51-137			QM-07
p-Isopropyltoluene	0.00720	0.0050	"	0.0312	ND	23.1	37-143			QM-07
Methyl ethyl ketone	0.0429	0.015	"	0.0627	ND	68.4	19-150			
Methyl isobutyl ketone	0.0247	0.010	"	0.0624	ND	39.6	29-155			
Methyl tert-butyl ether	0.0255	0.0050	"	0.0312	ND	81.7	59-128			
Methylene chloride	0.0209	0.0050	"	0.0312	ND	67.0	53-137			
Naphthalene	0.0120	0.0050	"	0.0312	ND	38.5	26-152			
n-Propylbenzene	0.0132	0.0050	"	0.0312	ND	42.3	47-143			QM-07

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CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	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 AD32511 - EPA 5030 Soil MS										
Matrix Spike (AD32511-MS1)		**Source: A304264-01**		Prepared: 04/21/03		Analyzed: 04/23/03				
Styrene	0.0149	0.0050	"	0.0312	ND	47.8	32-150			
1,1,1,2-Tetrachloroethane	0.0209	0.0050	"	0.0312	ND	67.0	39-153			
1,1,2,2-Tetrachloroethane	0.0218	0.0050	"	0.0312	ND	69.9	42-140			
Tetrachloroethene	0.0219	0.0050	"	0.0312	ND	70.2	66-124			
Toluene	0.0214	0.0050	"	0.0312	ND	68.6	50-148			
1,2,3-Trichlorobenzene	0.00990	0.0050	"	0.0312	ND	31.7	31-148			
1,2,4-Trichlorobenzene	0.00880	0.0050	"	0.0312	ND	28.2	30-148			QM-07
1,1,1-Trichloroethane	0.0250	0.0050	"	0.0312	ND	80.1	69-114			
1,1,2-Trichloroethane	0.0240	0.0050	"	0.0312	ND	76.9	39-152			
Trichloroethene	0.0223	0.0050	"	0.0312	ND	71.5	50-146			
Trichlorofluoromethane	0.0246	0.0050	"	0.0312	ND	78.8	63-115			
Trichlorotrifluoroethane	0.0206	0.0050	"	0.0308	ND	66.9	61-119			
1,2,3-Trichloropropane	0.0240	0.0050	"	0.0312	ND	76.9	38-152			
1,2,4-Trimethylbenzene	0.0114	0.0050	"	0.0312	ND	36.5	43-150			QM-07
1,3,5-Trimethylbenzene	0.0117	0.0050	"	0.0312	ND	37.5	47-140			QM-07
Vinyl chloride	0.0208	0.0050	"	0.0312	ND	66.7	47-142			
m,p-Xylene	0.0312	0.0050	"	0.0625	ND	49.9	54-139			QM-07
o-Xylene	0.0167	0.0050	"	0.0312	ND	53.5	58-136			QM-07
Xylenes (total)	0.0480	0.0050	"	0.0938	ND	51.2	54-139			QM-07
Surrogate: Dibromofluoromethane	*0.138*		"	*0.125*		*110*	*70-130*			
Surrogate: Toluene-d8	*0.125*		"	*0.125*		*100*	*70-130*			
Surrogate: Bromofluorobenzene	*0.118*		"	*0.125*		*94.4*	*70-130*			

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Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Chlorinated Phenols by Canadian Pulp Method - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD31611 - Solvent Extraction										
Blank (AD31611-BLK1)				Prepared: 04/10/03 Analyzed: 04/14/03						
2,4,6-Trichlorophenol	ND	1.0	mg/kg							
2,3,5,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,5-Tetrachlorophenol	ND	1.0	"							
Pentachlorophenol	ND	1.0	"							
Surrogate: Tribromophenol	*0.0840*		"	*0.124*		*67.7*	*23-140*			
LCS (AD31611-BS1)				Prepared: 04/10/03 Analyzed: 04/14/03						
2,4,6-Trichlorophenol	0.0226	1.0	mg/kg	0.0250		90.4	20-99			
2,3,5,6-Tetrachlorophenol	0.0126	1.0	"	0.0250		50.4	23-110			
2,3,4,6-Tetrachlorophenol	0.0157	1.0	"	0.0250		62.8	21-97			
2,3,4,5-Tetrachlorophenol	0.0181	1.0	"	0.0250		72.4	14-151			
Pentachlorophenol	0.0130	1.0	"	0.0250		52.0	10-168			
Surrogate: Tribromophenol	*0.100*		"	*0.124*		*80.6*	*23-140*			
LCS Dup (AD31611-BSD1)				Prepared: 04/10/03 Analyzed: 04/14/03						
2,4,6-Trichlorophenol	0.0231	1.0	mg/kg	0.0250		92.4	20-99	2.19	50	
2,3,5,6-Tetrachlorophenol	0.0131	1.0	"	0.0250		52.4	23-110	3.89	50	
2,3,4,6-Tetrachlorophenol	0.0166	1.0	"	0.0250		66.4	21-97	5.57	50	
2,3,4,5-Tetrachlorophenol	0.0174	1.0	"	0.0250		69.6	14-151	3.94	50	
Pentachlorophenol	0.0132	1.0	"	0.0250		52.8	10-168	1.53	50	
Surrogate: Tribromophenol	*0.103*		"	*0.124*		*83.1*	*23-140*			

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Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 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 AD32307 - General Preparation										
Blank (AD32307-BLK1)				Prepared: 04/18/03		Analyzed: 04/22/03				
Oil & Grease (HEM-SG)	ND	50	mg/kg							
LCS (AD32307-BS1)				Prepared: 04/18/03		Analyzed: 04/22/03				
Oil & Grease (HEM-SG)	2920	50	mg/kg	3000		97.3	80-120			
LCS Dup (AD32307-BSD1)				Prepared: 04/18/03		Analyzed: 04/22/03				
Oil & Grease (HEM-SG)	3000	50	mg/kg	3000		100	80-120	2.70	20	
Duplicate (AD32307-DUP1)	Source: A304264-04			Prepared: 04/17/03		Analyzed: 04/22/03				
Oil & Grease (HEM-SG)	7940	50	mg/kg		8200			3.22	200	
Matrix Spike (AD32307-MS1)	Source: A304264-04			Prepared: 04/18/03		Analyzed: 04/22/03				
Oil & Grease (HEM-SG)	10300	50	mg/kg	2500	8200	84.0	80-120			
Matrix Spike Dup (AD32307-MSD1)	Source: A304264-04			Prepared: 04/18/03		Analyzed: 04/22/03				
Oil & Grease (HEM-SG)	12400	50	mg/kg	2500	8200	168	80-120	18.5	20	QM-05

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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MAY 2 9 2003
Tetra Tech/MFG, Inc.

Cheryl Watson For Sheri L. Speaks
Project Manager

5/19/03

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
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Matt Hillyard

Report Date: 05/19/03 09:29
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 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 AD31615 - CA LUFT - orb shaker										
Blank (AD31615-BLK1)				Prepared: 04/16/03 Analyzed: 04/17/03						
TPH as Diesel	ND	1.0	mg/kg							
TPH as Motor Oil	ND	2.0	"							
Surrogate: 1,4-Bromofluorobenzene	*4.80*		"	*13.7*		*35.0*	*25-132*			
LCS (AD31615-BS1)				Prepared: 04/16/03 Analyzed: 04/17/03						
TPH as Diesel	37.3	1.0	mg/kg	40.5		92.1	70-130			
TPH as Motor Oil	41.1	2.0	"	40.6		101	70-130			
Surrogate: 1,4-Bromofluorobenzene	*7.84*		"	*13.7*		*57.2*	*25-132*			
LCS Dup (AD31615-BSD1)				Prepared: 04/16/03 Analyzed: 04/17/03						
TPH as Diesel	40.0	1.0	mg/kg	40.5		98.8	70-130	6.99	20	
TPH as Motor Oil	40.9	2.0	"	40.6		101	70-130	0.488	20	
Surrogate: 1,4-Bromofluorobenzene	*9.26*		"	*13.7*		*67.6*	*25-132*			

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.

RECEIVED
MAY 23 2003
Tetra Tech/MFG, Inc.

Cheryl Watson For Sheri L. Speaks
Project Manager

5/19/03

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

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MFG, Inc - Arcata
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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304264	04/09/2003 15:30	MFGARC	

Notes and Definitions

D-09	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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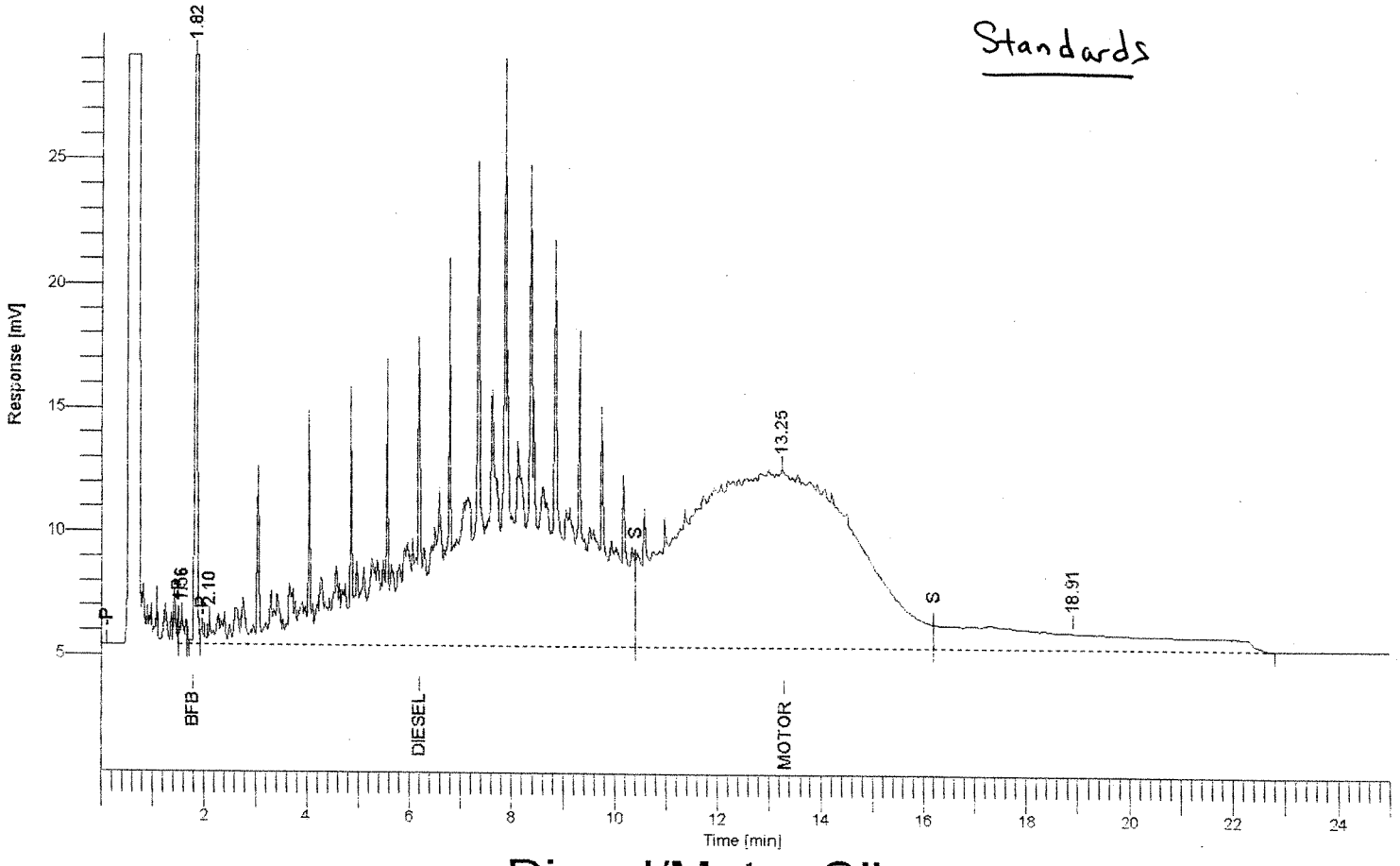
Software Version	:	6.1.2.0.1:D19	Date	:	4/17/03 2:37:1
Sample Name	:	DM(41.12)	Data Acquisition Time	:	4/17/03 2:12:12 PM
Instrument Name	:	DsMo			
Rack/Vial	:	0/0			
Sample Amount	:	1.000000	Channel	:	A
Cycle	:	117	Operator	:	manager
			Dilution Factor	:	1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT956.rst
Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_041403.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.56		0.007	6809	953
2	1.82	BFB	8.732	238950	85715
3	2.10	Diesel	40.985	1931500	841
4	13.25	Motor Oil	43.026	1721194	7279
5	18.91		0.249	249327	648
			92.998	4147780	95436

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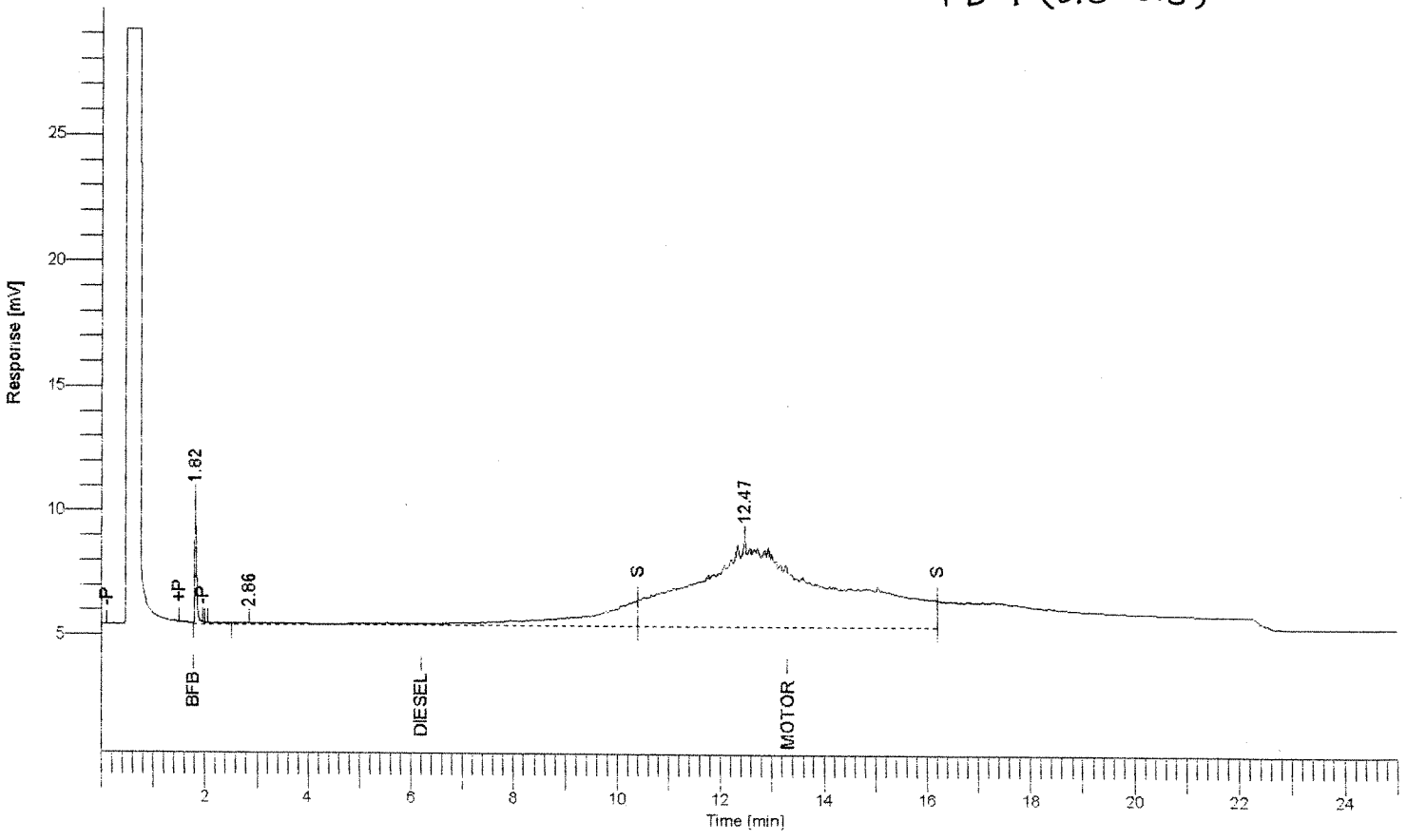
Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT956.TXO

Software Version	:	6.1.2.0.1:D19	Date	:	4/17/03 11:19:
Sample Name	:	A304164-01@10	Data Acquisition Time	:	4/17/03 10:54:3 AM
Instrument Name	:	DsMo2			
Rack/Vial	:	0/0			
Sample Amount	:	1.000000	Channel	:	A
Cycle	:	112	Operator	:	manager
			Dilution Factor	:	1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT951.rst
Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_041403.seq

PD-1 (0.0-0.5)



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.82	BFB	0.782	13703	3990
2	2.86	Diesel	1.691	87569	76
3	12.47	Motor Oil	15.622	627154	3539
			18.096	728426	7605

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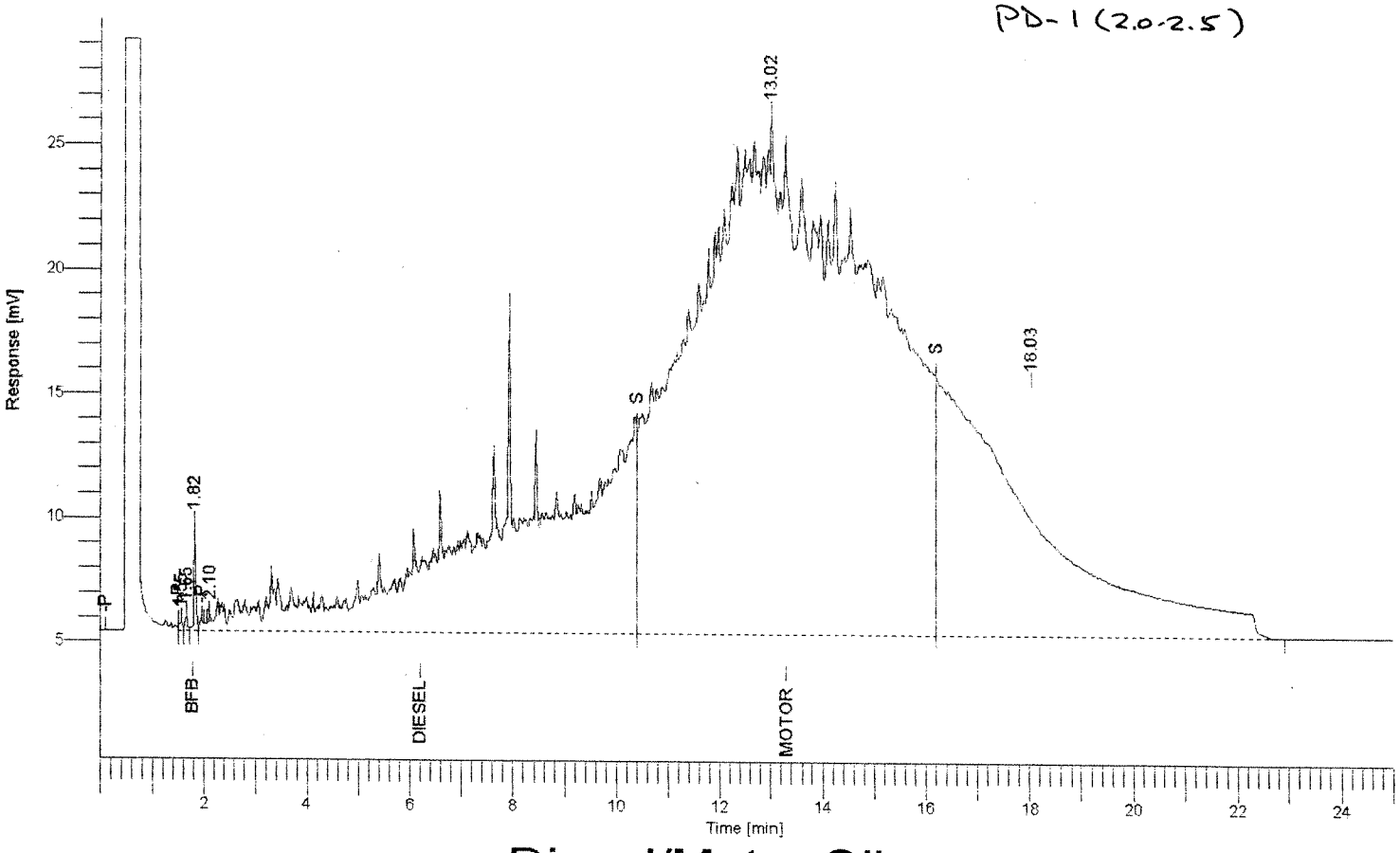
Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT951.TXO

Software Version	:	6.1.2.0.1:D19	Date	:	4/17/03 11:59
Sample Name	:	A30464-02@10	Data Acquisition Time	:	4/17/03 11:34:(AM
Instrument Name	:	DsMo2			
Rack/Vial	:	0/0			
Sample Amount	:	1.000000	Channel	:	A
Cycle	:	113	Operator	:	manager
			Dilution Factor	:	1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT952.rst
Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_041403.seq

PD-1 (2.0-2.5)



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.55		0.002	1670	338
2	1.65		0.002	2297	546
3	1.82	BFB	0.676	10662	3414
4	2.10	Diesel	32.524	1535987	616
5	13.02	Motor Oil	126.189	5001560	20866
6	18.03		1.395	1394919	4745
			160.788	7947095	30526

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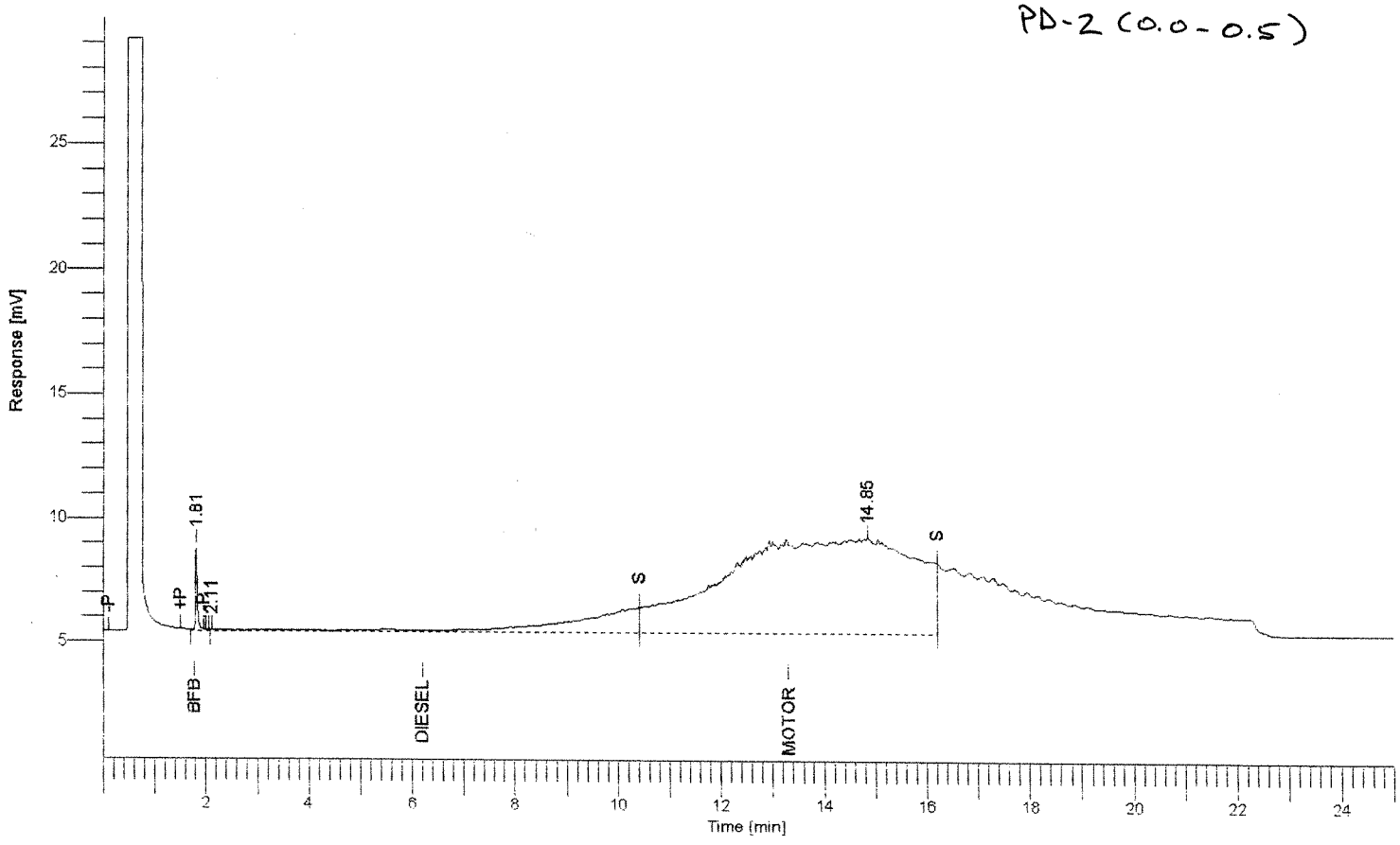
Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT952.TXO

Software Version	:	6.1.2.0.1:D19	Date	:	4/17/03 12:38:
Sample Name	:	A30476 4-03@10	Data Acquisition Time	:	4/17/03 12:13:3 PM
Instrument Name	:	DsMo2			
Rack/Vial	:	0/0			
Sample Amount	:	1.000000	Channel	:	A
Cycle	:	114	Operator	:	manager
			Dilution Factor	:	1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT953.rst
Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_041403.seq

PD-2 (0.0-0.5)



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.81	BFB	0.665	10330	3089
2	2.11	Diesel	2.034	103741	68
3	14.85	Motor Oil	24.604	986438	3867
			27.303	1100509	7024

RECEIVED
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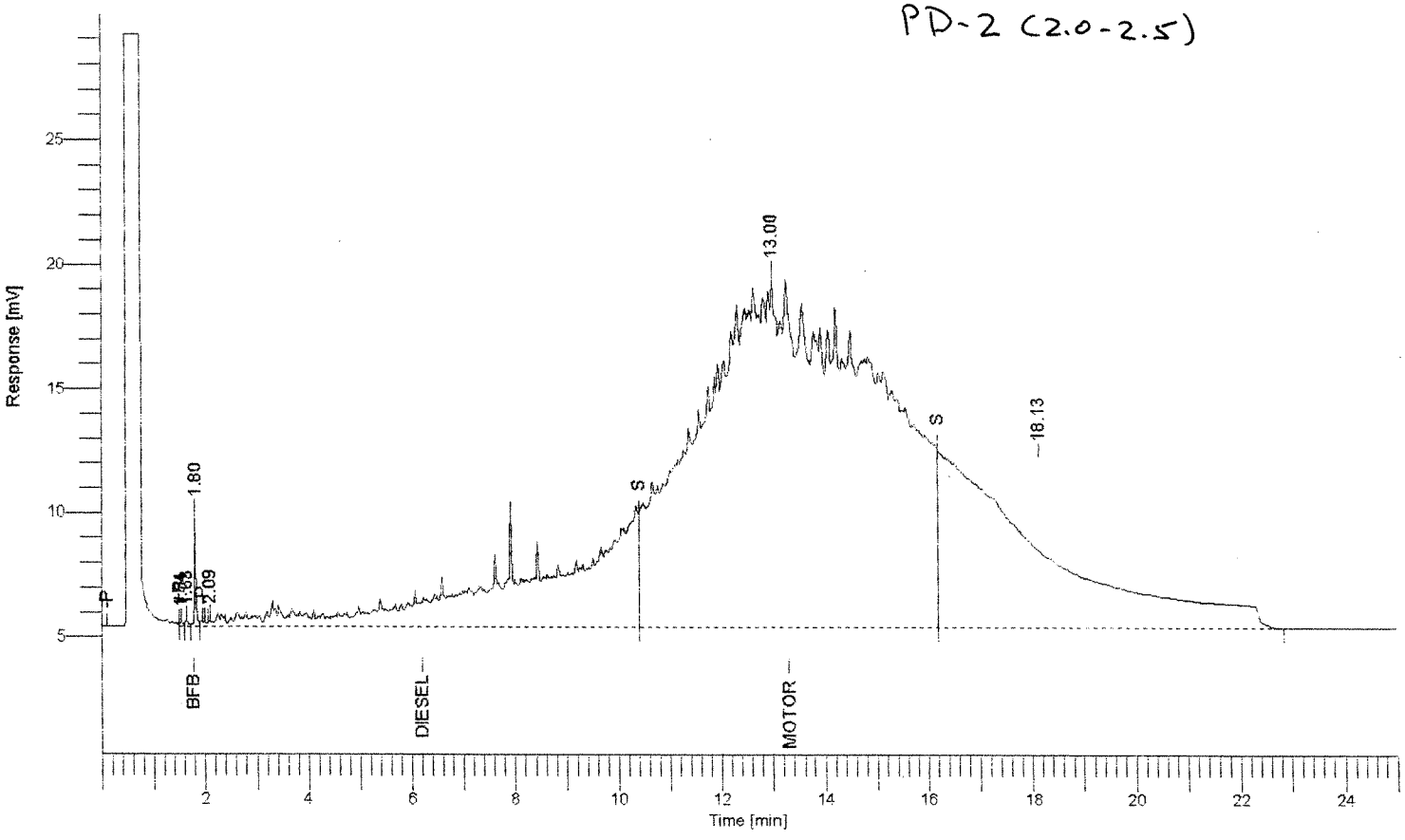
MFG, Inc.

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT953.TXO

Software Version	:	6.1.2.0.1:D19	Date	:	4/17/03 1:18:1
Sample Name	:	A304164-04@10	Data Acquisition Time	:	4/17/03 12:53:0 PM
Instrument Name	:	DsMo 2			
Rack/Vial	:	0/0			
Sample Amount	:	1.000000	Channel	:	A
Cycle	:	115	Operator	:	manager
			Dilution Factor	:	1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT954.rst
Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_041403.seq

PD-2 (2.0-2.5)



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.54		0.001	863	186
2	1.63		0.001	1182	255
3	1.80	BFB	0.678	10721	3572
4	2.09	Diesel	14.174	675316	273
5	13.00	Motor Oil	84.672	3371417	14232
6	18.13		0.991	991448	3103
			100.518	5050946	21621

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MFG, Inc.

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT954.TXO

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43288

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

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

☐ Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954

☐ Osburn Office
P.O. Box 30
Wallace, ID
83873-0030
Tel: (208) 556-6811
Fax: (208) 556-7271

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

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

PROJECT NO: 030229 PROJECT NAME: SPI Arcata Sawmill PAGE: 1 OF: 2

SAMPLER (Signature): PROJECT MANAGER: Ed Conti DATE: 4/8/03

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

SAMPLES

ANALYSIS REQUEST

Field Sample Identification	Sample DATE	Sample TIME	Sample Matrix*	Preservation HCl	Preservation HNO_3	Preservation H_2SO_4	Preservation COLD	Preservation	FILTRATION*	Containers VOLUME (ml/oz)	Containers TYPE*	Containers NO.	Constituents/Method: TEPH Diesel/Motor Oil, BOSM, Silica Gel	Constituents/Method: Oil/Grease 1664	Constituents/Method: VOC, 8260 + EDC/EDB	Constituents/Method: PCB/TCP Canadian 82B	Constituents/Method: TPH gasoline 5030/8015 m	Handling HOLD	Handling RUSH	Handling STANDARD	Remarks
PD-1 (0-.5)	4/8/03		SO				✓			4-oz	G	1	✓	✓		✓					A3042604-1
PD-1 (2-2.5)	4/8/03		SO				✓			4-oz	G	1	✓	✓		✓					-2
PD-2 (0-.5)	4/8/03		SO				✓			4-oz	G	1	✓	✓		✓					-3
PD-2 (2-2.5)	4/8/03		SO				✓			4-oz	G	1	✓	✓		✓					-4
WO-1	4/8/03		AQ				✓			1L	G	2	✓	✓							-5
WO-1	4/8/03		AQ	✓			✓			40ml	G	6			✓		✓				-6

TOTAL NUMBER OF CONTAINERS

LABORATORY COMMENTS/CONDITION OF SAMPLES Cooler Temp:

RELINQUISHED BY: SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	RECIEVED BY: SIGNATURE	PRINTED NAME	COMPANY
	J. Trujillo	MFG	4/9/03	10:15		John Taylor	Alpha
	John Taylor	Alpha	4/9/03	15:30		Shari Speaks	Alpha
							LABORATORY

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

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