WASTE OIL UNDERGROUND STORAGE TANK INVESTIGATION AND CLOSURE REPORT

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

June 10, 2003

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

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REPORT

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Prepared For:

SIERRA PACIFIC INDUSTRIES

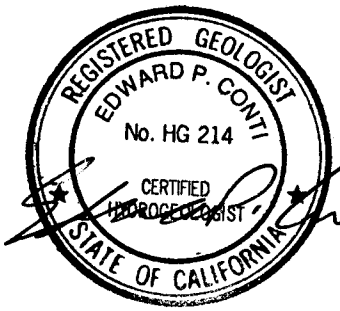
Prepared By:

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

MFG Project No. 030229.7

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 10, 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 documenting the investigation and closure of a waste oil underground storage tank (UST) at the Sierra Pacific Industries (SPI) Arcata Division Sawmill located at 2593 New Navy Base Road, Arcata, California (hereinafter "the Site"). MFG, Inc. has prepared this report on behalf of SPI 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 Site location is shown in Figure 1. A Site plan showing the location of the former waste oil UST is presented in Figure 2. An enlargement of the former waste oil UST area is presented in Figure 3.

This work was performed in general accordance with MFG's *Waste Oil UST Investigation* letter to SPI, dated April 4, 2003 and MFG's *Waste Oil Underground Storage Tank Removal* letter to SPI, dated April 9, 2003. This report summarizes the methods and results of the investigation and closure activities related to the waste oil UST.

The remainder of this report is organized as follows. The initial UST investigation, including soil boring, soil classification, groundwater sampling, and groundwater sample chemical analysis methods and results are described in Section 2.0. Removal of the UST, confirmation soil and groundwater sampling, and soil and groundwater chemical analysis methods and results are described in Section 3.0. Disposal of the investigation-derived waste is presented in Section 4.0. Additional work planned for the UST area is presented in Section 5.0, and references cited in this report are listed in Section 6.0.

2.0 UNDERGROUND STORAGE TANK INVESTIGATION

2.1 Background and Interviews with Site Personnel

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

MFG reviewed historical documents and interviewed various SPI employees that were knowledgeable about the Site's history and the relative age and location of the waste oil UST. The location of the UST was estimated to be adjacent to the southwestern edge of the steam cleaning pad near the Truck Shop (Figure 3). The interviewed employees believed that the waste oil UST was taken out of service in the 1970s but there were conflicting recollections as to whether it had been removed from the subsurface. The goals of the UST investigation were to evaluate the soil and groundwater quality in the vicinity of the suspected former UST and, if still present in the subsurface, to locate the UST.

Based on the historical documents and interviews with knowledgeable SPI personnel, no other USTs are believed to have ever been present at the Site.

2.2 Field Methods

2.2.1 Introduction

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

On April 7, 2003, concrete at each boring location was cored using a rotary drill and subsequently removed. Two soil borings were advanced by Fisch Environmental Exploration Services (Fisch) of

Valley Springs, California using a direct-push drilling rig under the direction of MFG. One boring (WO-1) was located to the southeast of the suspected UST location and advanced to a depth of 12 feet below ground level (bgl). A second boring (WO-2) was located within the area suspected to be the footprint of the former tank pit for the UST. During drilling activities at boring WO-2, the UST was encountered at a depth of approximately 1 foot below ground level (bgl). MFG's *Waste Oil UST Investigation* letter to SPI, dated April 4, 2003, identified two additional boring locations in the vicinity of the UST; however, these borings were not advanced after the UST was discovered. MFG initiated removal activities at the time the UST was discovered. The removal activities are described in Section 3.0 of this report.

Soil boring WO-1 was subsequently backfilled with neat cement at the conclusion of groundwater sampling activities (Section 2.2.3). Soil boring WO-2 was temporarily backfilled with neat cement and subsequently excavated at the time of the tank removal.

2.2.2 Soil Sampling

Soil samples from boring WO-1 were collected in 4-foot long, clear PVC liners inserted into the drive casing of the direct push drill rig. The soil from each 4-foot interval was extruded from the PVC liner and examined. 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 and staining, if any, were noted in the field on a boring log. The boring log is 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 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). No soil samples were preserved for chemical analysis.

Drilling and sampling equipment was decontaminated before and after use by washing it in a solution of Liquinox® detergent and distilled water and then triple rinsing with distilled water.

Soil cuttings and equipment wash water generated during drilling and sampling activities were placed in separate steel, 55-gallon, Department of Transportation (DOT)-approved drums that were sealed and labeled. The drums are being temporarily stored in a secure location at the Site pending disposal (Section 4.0).

2.2.3 Groundwater Sampling

On April 7, 2003, a temporary well was installed in boring WO-1 to an approximate depth of 10 feet below ground level (bgl). The temporary well was constructed of 1-inch diameter, flush threaded Schedule 40 PVC screen with 0.010-inch slot size and pre-packed silica sand filter sleeves from the bottom of the boring to ground surface.

After installation, the temporary well was developed by removing groundwater using a peristaltic pump and dedicated Teflon® tubing. During development, the temperature, pH and specific conductance of the purge water were measured periodically. Well development continued until the water quality parameters stabilized and the groundwater removed from the well was relatively free of sediment. Approximately three casing volumes of groundwater were removed from the temporary well during the development process. The well development record field form is provided in Appendix C.

On April 8, 2003, the temporary well was purged and a groundwater sample collected using a peristaltic pump and dedicated Teflon® tubing. During purging, the temperature, pH and specific conductance of the purge water were measured and recorded in the field. Purging was complete when the field-measured parameters were relatively stable and at least three casing volumes of water had been removed from the temporary well. The groundwater sampling record field form is provided in Appendix C. The groundwater sample was placed into the appropriate containers, labeled and immediately placed in an ice-cooled, insulated chest for transport to the laboratory. A chain-of-custody record was completed for the sample and accompanied the sample until receipt by the laboratory. A copy of the chain-of-custody record is provided in Appendix D.

Water generated during groundwater sampling and equipment decontamination was placed into the steel, 55-gallon drum containing the equipment wash water from the drilling and soil sampling activities. The drum is being temporarily stored in a secure location at the Site pending disposal (Section 4.0).

After completion of groundwater sampling activities, the temporary well casing was removed and the boring was grouted with neat cement using a tremie pipe.

2.3 Stratigraphy and Field Observations

The soil encountered during drilling activities consisted of fine- to medium-grained sand with varying amounts of gravel to a depth of approximately 8.6 feet below ground level (bgl). The sand and gravel was underlain by fine- to medium-grained sand to a depth of approximately 12 feet bgl, the maximum depth explored. The depth to saturated soil was approximately 1.5 feet bgl. The depth to water in the temporary well was measured at approximately 1.7 feet bgl on April 8, 2003. The PID readings from headspace measurements of the soil samples ranged from 3.2 to 9.3 ppmv (Appendix B). No evidence of petroleum hydrocarbon impact was noted during soil and groundwater sampling activities.

2.4 Analytical Methods and Results

The groundwater sample collected from boring WO-1 was submitted for chemical analysis to Alpha Analytical Laboratories Inc. of Ukiah, California, a laboratory certified by the California Department of Health Services (DHS). The sample was analyzed for the following parameters:

- Oil and Grease using EPA Method 1664 with silica gel cleanup;
- Total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil using modified EPA Method 8015 with silica gel cleanup;
- Total purgeable petroleum hydrocarbons (TPPH) as gasoline using modified EPA Method 8015;
- Volatile organic compounds (VOCs) using EPA Method 8260B;

- Semi-volatile organic compounds (SVOCs), pentachlorophenol (PCP), total polychlorinated biphenyls (PCBs) and creosote compounds using EPA Method 8270D; and

- Dissolved wear metals (cadmium, chromium, nickel, lead and zinc) using EPA Method 6010B.

Copies of the laboratory reports and chain-of-custody records are included in Appendix D. The analytical results are summarized in Table 1.

Oil and grease was not detected at or above the laboratory reporting limit of 5,000 micrograms per liter (µg/L) in the groundwater sample from temporary well WO-1. TEPH as diesel was detected in the groundwater sample at a concentration of 200 µg/L. TEPH as motor oil was detected in the groundwater sample at a concentration of 290 µg/L. Concentrations of TPPH as gasoline, VOCs, SVOCs, PCP, total PCBs, creosote compounds and dissolved wear metals (cadmium, chromium, nickel, lead and zinc) were not detected at or above their respective laboratory reporting limits (Table 1).

3.0 UNDERGROUND STORAGE TANK REMOVAL

3.1 Removal of the Waste Oil UST and Field Observations

On April 7, 2003, shortly after the UST was discovered, approximately 200 gallons of water and some residual oil were removed from the UST through boring WO-2, which penetrated the top of the UST. After the liquid contents of the UST were removed, the hole in the top of the UST was plugged and boring WO-2 was grouted with neat cement. As directed by SPI, MFG initiated plans to excavate and remove the waste oil UST.

Prior to excavation and removal activities, Hake Construction of Eureka, California obtained a UST removal permit from the Humboldt County Division of Environmental Health (HCDEH). A copy of the permit is provided in Appendix E. MFG notified the California Coastal Commission of the planned excavation and removal activities. The California Coastal Commission provided MFG with a letter, dated April 18, 2003, indicating that the UST removal activities were exempt from requiring a coastal development permit. A copy of the California Coastal Commission letter is also provided in Appendix E.

On April 22, 2003, Hake Construction removed the UST from the subsurface by first excavating the concrete and fill material around the top and southwest side of the UST, and then lifting the UST from the excavation using a chain attached to the backhoe bucket. Upon removal, the UST was placed on 10-milliliter (ml)-thick plastic and blocked to prevent the tank from rolling onto its side. The tank was constructed of steel and was approximately 12 feet long and 4 feet in diameter with an estimated nominal capacity of 1,000 gallons. The tank was inspected for evidence of holes and corrosion by Dean Adams of the HCDEH and MFG personnel. The tank showed evidence of staining along the bottom and sides and was breached in numerous areas. The tank appeared to have been crushed and abandoned in-place.

Once the tank was removed, residual petroleum hydrocarbon staining was noted in the soil immediately surrounding the former UST location.

The sediment and sludge that accumulated inside the tank over the years was removed and placed into five steel, DOT-approved, 55-gallon drums. The drums were sealed and labeled and are being temporarily stored in a secure location at the Site pending disposal (Section 4.0). The tank was then sealed in the 10-ml thick plastic to prevent contact with stormwater runoff prior to UST transportation and disposal (Section 4.0).

After inspection of the tank, additional excavation was conducted by Hake Construction to remove soil impacted by residual petroleum hydrocarbons. Soil excavation was performed to the southeast, southwest and northwest of the former UST as well as beneath the former UST. Additional soil excavation was not feasible to the northeast due to the presence of a concrete pad associated with the steam cleaning area.

As soil impacted with petroleum hydrocarbons was removed, one degraded 30-gallon steel drum and one degraded 55-gallon steel drum were discovered beneath the former location of the waste oil UST. The degraded drums were below the groundwater surface and contained groundwater. The drums were subsequently removed from the subsurface. The bung hole cap for the 30-gallon drum was marked "Shell," indicating that the drum likely originally contained oil. The 55-gallon drum did not have any identification markings or labels to indicate its former contents, if any. SPI personnel believed that the drums were used to fill a void beneath the UST. The sediment and sludge that accumulated inside the degraded drums over the years was removed and placed into the five 55-gallon drums used to containerize the sediment and sludge from the UST. The drums were steam cleaned at the Site prior to disposal (Section 4.0).

At the conclusion of soil removal activities, the excavation measured approximately 15 feet long by 7 feet wide with a total depth of approximately 6 feet bgl. The stratigraphy in the vicinity of the former UST consisted of sand and gravel to the depth of the excavation. Residual petroleum hydrocarbon staining was noted in the soil along the excavation sidewalls and floor after completion of soil removal activities.

The total volume of soil removed was approximately 18 cubic yards. The excavated soil was stockpiled at the Site in a bermed area constructed by Hake Construction and covered with plastic to prevent storm water infiltration and runoff.

Groundwater was observed in the excavation at a depth of approximately 5 feet bgl. Petroleum hydrocarbon globules were noted on the water surface in the excavation. Approximately 430 gallons of groundwater were pumped from the excavation directly into three, aboveground, polyethylene tanks and stored temporarily at the Site prior to disposal (Section 4.0).

After excavation and removal activities, SPI completed an *Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report* form. The form was submitted to the HCDEH on April 25, 2003. A copy of the form is presented in Appendix F.

Photographs of UST removal activities are included in Appendix G.

3.2 Confirmation Sampling and Analysis

3.2.1 Field Methods

After soil removal activities, MFG conducted confirmation soil and groundwater sampling of the excavation. The confirmation sampling was performed under the direction of Dean Adams of the HCDEH and in accordance with MFG's *Waste Oil Underground Storage Tank Removal* letter to SPI, dated April 9, 2003.

3.2.1.1 Confirmation Soil Sampling

A total of 4 confirmation soil samples were collected from the excavation sidewalls by MFG following soil removal activities. Two of the soil samples (NW-1-6' and SE-1-6') were collected from the northwest and southeast sidewalls at depths of approximately 6 feet bgl, immediately below the approximate bottom of the former UST. These two samples were collected as directed by the HCDEH inspector. Two additional soil samples (NE-1-4' and SW-1-4') were collected from the northeast and southwest sidewalls at depths of approximately 4 feet bgl, immediately above the soil/water interface. The locations of confirmation soil samples are shown in Figure 3.

In order to collect soil samples from the excavation, Hake Construction removed soil from the desired sampling locations using the backhoe bucket. At each sample location, approximately 6 inches of soil were removed from the soil surface in the backhoe bucket and a clean, stainless steel sample liner was driven into the newly exposed soil in the backhoe bucket. Following sample collection, the ends of the sample liners were covered with Teflon® sheets, capped with polyethylene lids and sealed with duct tape. Each sample was labeled, placed in an individual polyethylene Ziploc® bag and immediately packed in an insulated, ice-cooled 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. A copy of the chain-of-custody record is included in Appendix H.

Soil from the selected sampling locations was screened in the field by MFG for the presence of organic vapors using a PID as presented in Section 2.2.2. The PID readings for the soil sampling locations are presented in Table 2.

3.2.1.2 Confirmation Groundwater Sampling

After purging the excavation (Section 3.2.1), a groundwater sample was collected from the excavation using a peristaltic pump and disposable Teflon® tubing. The sample was pumped directly into containers provided by the laboratory. The sample was labeled and immediately placed in an insulated, ice-cooled chest for transport to the laboratory. A chain-of-custody record was completed for the sample and accompanied the sample until receipt by the laboratory. A copy of the chain-of-custody record is included in Appendix H.

3.2.2 Analytical Methods and Results

3.2.2.1 Confirmation Soil Samples

The confirmation soil samples collected from the excavation were submitted for chemical analysis to Alpha Analytical Laboratories Inc. of Ukiah, California, a laboratory certified by the California DHS. The four confirmation soil samples were analyzed for the following parameters:

- Total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil using modified EPA Method 8015 with silica gel cleanup; and
- Total purgeable petroleum hydrocarbons (TPPH) as gasoline using modified EPA Method 8015.

Confirmation soil samples NW-1-6' and SE-1-6' were also analyzed for the following parameters:

- Oil and grease using EPA Method 9071B with silica gel cleanup;

- Volatile organic compounds (VOCs) using EPA Method 8260B;
- Semi-volatile organic compounds (SVOCs), pentachlorophenol (PCP), total polychlorinated biphenyls (PCBs) and creosote compounds using EPA Method 8270D; and
- Wear metals (cadmium, chromium, nickel, lead and zinc) using EPA Method 6010B.

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

Oil and grease was detected in soil samples NW-1-6' at a concentration of 4,000 milligrams per kilogram (mg/kg) and SE-1-6' at a concentration of 540 mg/kg. TEPH as diesel was detected in the four soil samples at concentrations ranging from 74 to 5,000 mg/kg. TEPH as motor oil was detected in the four soil samples at concentrations ranging from 250 to 4,500 mg/kg. TPPH as gasoline was detected in the four soil samples at concentrations ranging from 14 to 980 mg/kg; however, the laboratory report indicated that the gasoline range organics in samples NE-1-4', SW-1-4' and NW-1-6' were primarily due to overlap from diesel range compounds.

The VOCs acetone and methyl ethyl ketone (MEK) were detected in confirmation soil sample SE-1-6' at concentrations of 0.13 and 0.031 mg/kg, respectively. The analyte 1,2,4-trimethylbenzene was detected in confirmation soil sample NW-1-6' at a concentration of 0.23 mg/kg. No other VOCs were detected at or above their respective laboratory reporting limits in these two soil samples (Table 2).

Concentrations of SVOCs, PCP, total PCBs, creosote compounds and cadmium were not detected at or above their respective laboratory reporting limits in confirmation soil samples NW-1-6' and SE-1-6' (Table 2). Chromium was detected in soil samples NW-1-6' at a concentration of 14 mg/kg and SE-1-6' at a concentration of 29 mg/kg. Nickel was detected in soil samples NW-1-6' at a concentration of 19 mg/kg and SE-1-6' at a concentration of 39 mg/kg. Lead was detected in soil samples NW-1-6' at a concentration of 26 mg/kg and SE-1-6' at a concentration of 9.3 mg/kg. Zinc was detected in soil samples NW-1-6' at a concentration of 75 mg/kg and SE-1-6' at a concentration of 30 mg/kg.

3.2.2.2 Confirmation Groundwater Sample

The confirmation groundwater sample from the UST excavation was submitted for chemical analysis to Alpha Analytical Laboratories Inc. of Ukiah, California, a laboratory certified by the California DHS. The confirmation sample was analyzed for the following parameters:

- Oil and grease using EPA Method 1664 with silica gel cleanup;
- Total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil using modified EPA Method 8015 with a silica gel cleanup;
- Total purgeable petroleum hydrocarbons (TPPH) as gasoline using modified EPA Method 8015;
- Volatile organic compounds (VOCs) using EPA Method 8260B;
- Semi-volatile organic compounds (SVOCs), pentachlorophenol (PCP); total polychlorinated biphenyls (PCBs) and creosote compounds using EPA Method 8270D; and
- Dissolved wear metals (cadmium, chromium, nickel, lead and zinc) using EPA Method 6010B.

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

Oil and grease was detected in the confirmation groundwater sample at a concentration of 24,000 µg/L. TEPH as diesel was detected at a concentration of 5,600 µg/L. TEPH as motor oil was detected at a concentration of 13,000 µg/L. TPPH as gasoline was detected at a concentration of 370 µg/L; however, the laboratory report indicated that the diesel range organics in the sample were primarily due to overlap from diesel range compounds.

Concentrations of VOCs, SVOCs, PCP, total PCBs, creosote compounds and dissolved wear metals (cadmium, chromium, nickel, lead and zinc) were not detected in the confirmation groundwater sample at or above their respective reporting limits (Table 1).

3.3 Backfill and Site Restoration

Following completion of confirmation sampling activities, the excavation for the UST was backfilled to surrounding grade with clean material consisting of sand and gravel. The backfill material was obtained from a local gravel pit and was compacted in-place using the backhoe bucket.

4.0 DISPOSAL OF INVESTIGATION-DERIVED WASTE

4.1 Underground Storage Tank

On April 24, 2003, the empty tank was transported by Ecology Control Industries (ECI) to its facility in Richmond, California. The tank was steam cleaned at the ECI facility and recycled as scrap metal. A copy of the waste disposal manifest for the tank is provided in Appendix H.

4.2 Degraded Drums, Tank Sediment, Soil Stockpile, Excavation Purge Water and Equipment Wash Water

The degraded drums were steam cleaned and placed in SPI's scrap metal bin and transported to North State Recycling in Redding, California. The five 55-gallon drums containing tank sediment, the 18 cubic yards of excavated soil, the 430 gallons of excavation purge water and the single 55-gallon drum of equipment wash water will be characterized and disposed of by SPI in accordance with applicable regulations.

5.0 ADDITIONAL WORK PLANNED

In response to the discovery of soil and groundwater impacted with petroleum hydrocarbons in the immediate vicinity of the former UST location, an additional investigation will be performed. The proposed work and boring locations will be presented in a work plan to the RWQCB for approval. A report summarizing the methods and results of the approved work will be prepared and submitted to the RWQCB in accordance with the approved work plan.

In response to the discovery of two degraded drums beneath the UST, the presence of additional drums in the vicinity will be investigated using geophysical survey methods. The planned work was summarized in MFG's *Geophysical Investigation Work Plan* letter to the RWQCB, dated May 23, 2003. The work plan was approved by the RWQCB on May 28, 2003. The geophysical survey is scheduled to occur during late June or early July of 2003. A report summarizing the findings of the geophysical investigation will be prepared and submitted to the RWQCB in accordance with the approved work plan.

6.0 REFERENCES

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

TABLES

TABLE 1

SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

SAMPLE ID	DEPTH TO WATER (feet bgl)	SAMPLE DATE	OIL & GREASE (µg/L)	TEPH AS DIESEL (µg/L)	TEPH AS MOTOR OIL (µg/L)	TPPH AS GASOLINE (µg/L)	VOCs (µg/L)	SVOCs (µg/L)	PCP (µg/L)	TOTAL PCBs (µg/L)	CADMIUM (µg/L)	CHROMIUM (µg/L)	NICKEL (µg/L)	LEAD (µg/L)	ZINC (µg/L)
		Reporting Limit:	5,000	54	110	50	1.5-25	10-50	50	100	10	50	100	50	100
WO-1[1]	2	08-Apr-03	ND	200	290	ND	ND[3.0-50]	ND	ND	ND	ND	ND	ND	ND	ND
Tank Pit Water[2]	5	22-Apr-03	24,000	5,600	13,000	370[3]	ND	ND[20-100]	ND[100]	ND[200]	ND	ND	ND	ND	ND

NOTES:

TEPH	Total extractable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 with silica gel cleanup and quantified against diesel and motor oil standards.
TPPH	Total purgeable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 and quantified against a gasoline standard.
VOCs	Volatile organic compounds. Analyzed using EPA Method 8260B.
SVOCs	Semi-volatile organic compounds. Analyzed using EPA Method 8270D.
PCP	Pentachlorophenol. Analyzed using EPA Method 8270D.
PCBs	Polychlorinated biphenyls. Analyzed using EPA Method 8270D.
bgl	Below ground level.
µg/L	Micrograms per liter.
ND	Not detected at or above the laboratory reporting limit indicated at the top of column.
[ ]	Indicates the laboratory reporting limit if different than that shown at top of column.
--	Not analyzed.
1.	Sample WO-1 collected from a temporary monitoring well located approximately 6 feet southeast of the former UST
2.	Tank Pit Water was a grab sample collected from the tank pit following UST removal.
3.	The laboratory report indicated that the result in the gasoline range is primarily due to overlap from diesel range compounds.

Oil and Grease was analyzed using EPA Method 1664 with silica gel cleanup.
Metals (dissolved) were analyzed using EPA Method 6010B.

TABLE 2

SUMMARY OF CHEMICAL ANALYSES OF CONFIRMATION SOIL SAMPLES

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)	TPPH AS GASOLINE (mg/kg)	ACETONE (mg/kg)	MEK (mg/kg)	1,2,4-TMB (mg/kg)	OTHER VOCs (mg/kg)	SVOCs (mg/kg)	PCP (mg/kg)	TOTAL PCBs (mg/kg)	CADMIUM (mg/kg)	CHROMIUM (mg/kg)	NICKEL (mg/kg)	LEAD (mg/kg)	ZINC (mg/kg)	FIELD PID (ppmv)
			Reporting Limit:	50	1.0	2.0	1.0	0.020	0.015	0.0050	0.0050-0.010	0.33-1.6	1.6	3.0	1.0	5.0	10	5.0	10	NA
NE-1-4'	4.0	22-Apr-03	SAND	--	5,000	1,800	980 [1]	--	--	--	--	--	--	--	--	--	--	--	--	19
SW-1-4'	4.0	22-Apr-03	SAND	--	2,300	4,500	650 [1]	--	--	--	--	--	--	--	--	--	--	--	--	51
NW-1-6'	6.0	22-Apr-03	SAND	4,000	1,900	2,800	170 [1]	ND[0.87]	ND [0.65]	0.23	ND[0.22-0.43]	ND[1.6-8.0]	ND[8.0]	ND[15]	ND	14	19	26	75	11
SE-1-6'	6.0	22-Apr-03	SAND	540	74	250	14	0.13	0.031	ND	ND	ND	ND	ND	ND	29	39	9.3	30	9

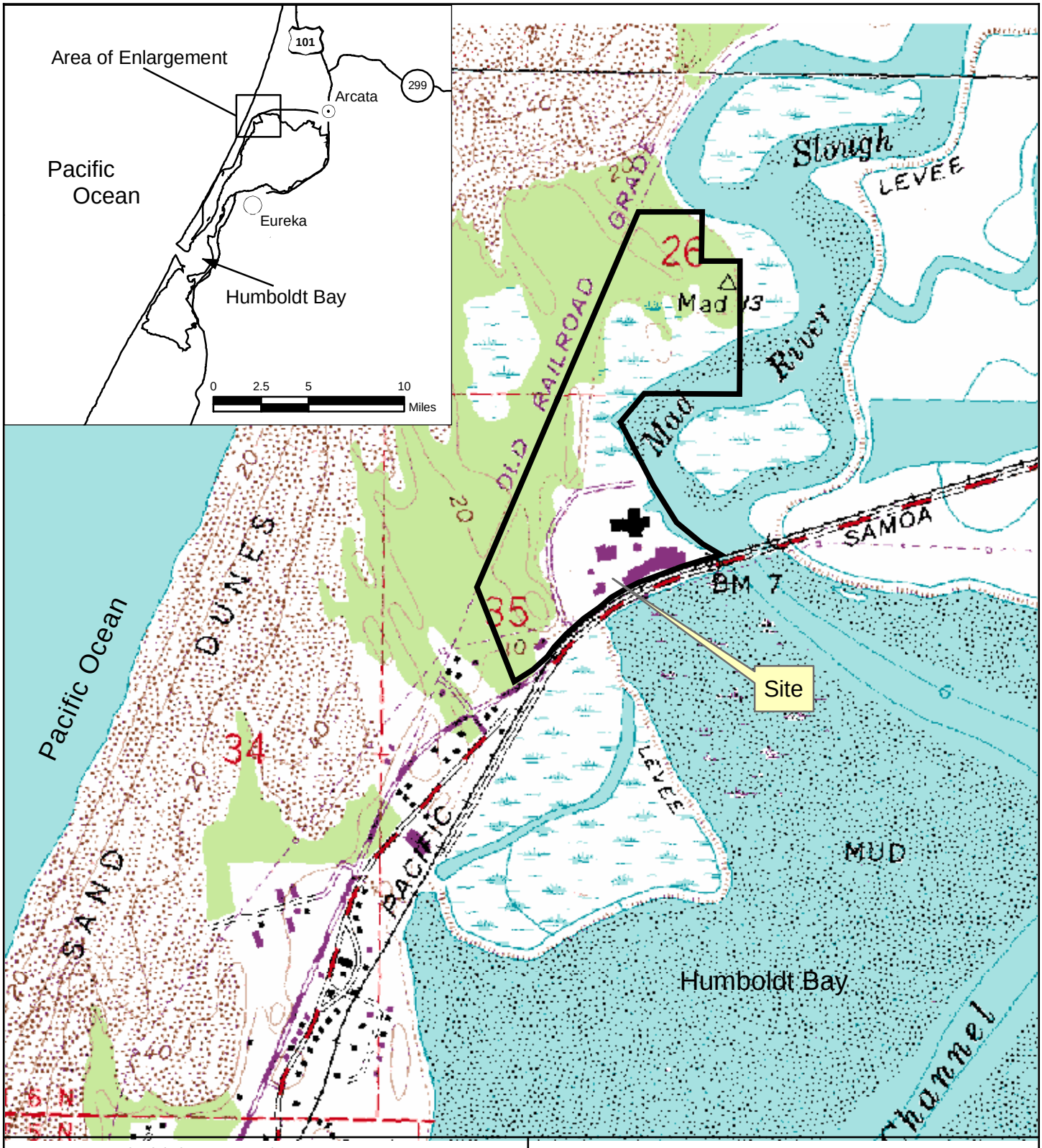
NOTES:

TEPH	Total extractable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 with silica gel cleanup and quantified against diesel and motor oil standards.
TPPH	Total purgeable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 and quantified against a gasoline standard.
MEK	Methyl ethyl ketone.
TMB	Trimethylbenzene.
VOCs	Volatile organic compounds. Analyzed using EPA Method 8260B.
SVOCs	Semi-volatile organic compounds. Analyzed using EPA Method 8270D.
PCP	Pentachlorophenol. Analyzed using EPA Method 8270D.
PCBs	Polychlorinated biphenyls. Analyzed using EPA Method 8270D.
PID	Photoionization detector
bgl	Below ground level.
mg/kg	Miligrams per kilogram.
ppmv	Parts per million by volume.
ND	Not detected at or above the laboratory reporting limit indicated at the top of column.
[ ]	Indicates the laboratory reporting limit if different than that shown at top of column.
NA	Not applicable.
--	Not analyzed.
1	The laboratory report indicated that the result in the gasoline range is primarily due to overlap from diesel range compounds.

Oil and Grease was analyzed using EPA Method 9071B with silica gel cleanup.
Metals were analyzed using EPA Method 6010B.

FIGURES

H:\Projects\030229-SPI\fig1_arcata



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

Site Boundary

0 500 1,000 2,000
Feet
Approximate Scale

N

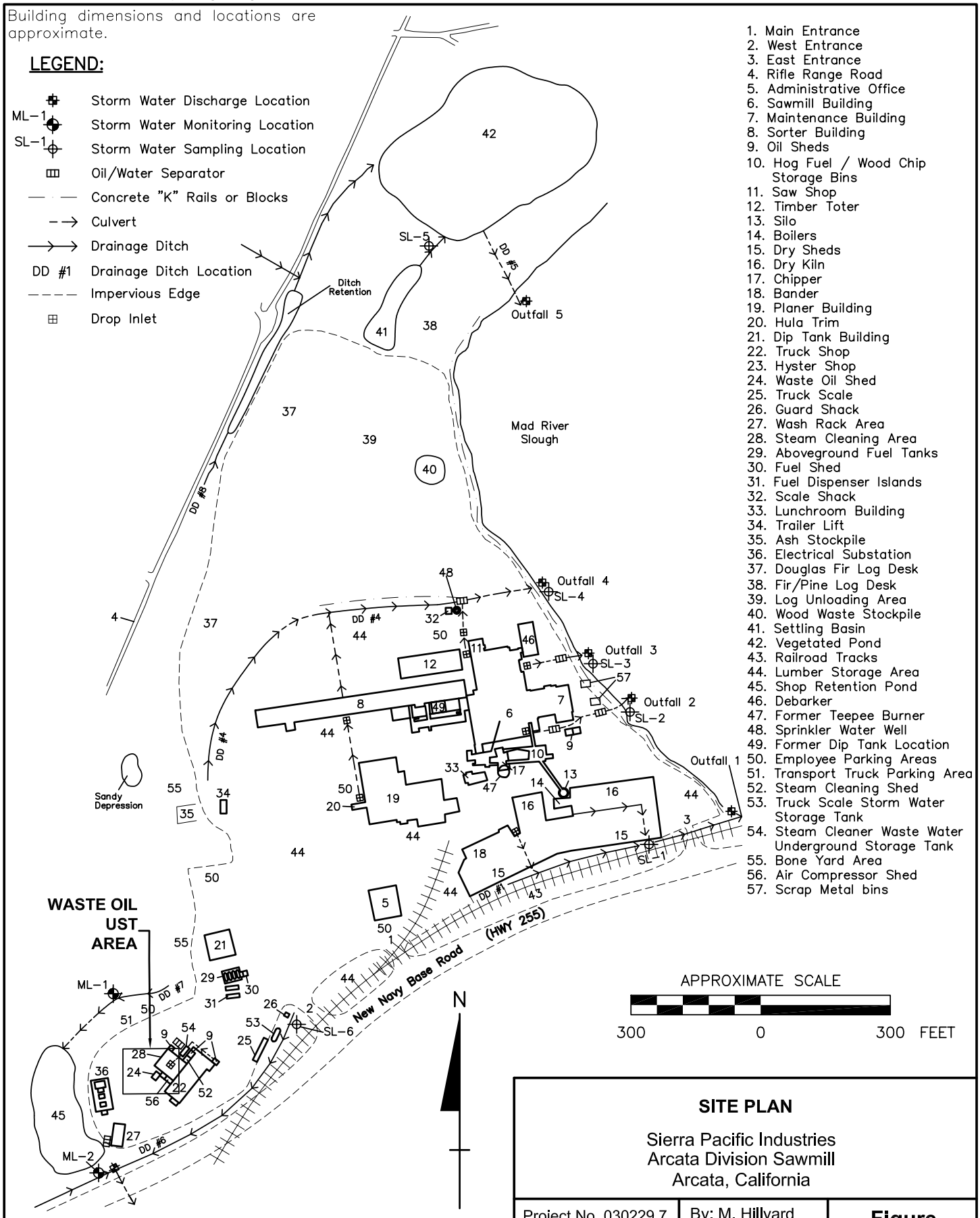
LOCATION MAP

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

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

MFG, Inc.
consulting scientists and engineers

J:\030229\Task 07\UST Report\Fig 2.dwg PLOT SCALE 1:1



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

SITE PLAN

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229.7	By: M. Hillyard	**Figure 2**
Date: 6/3/03	Checked: CGS	

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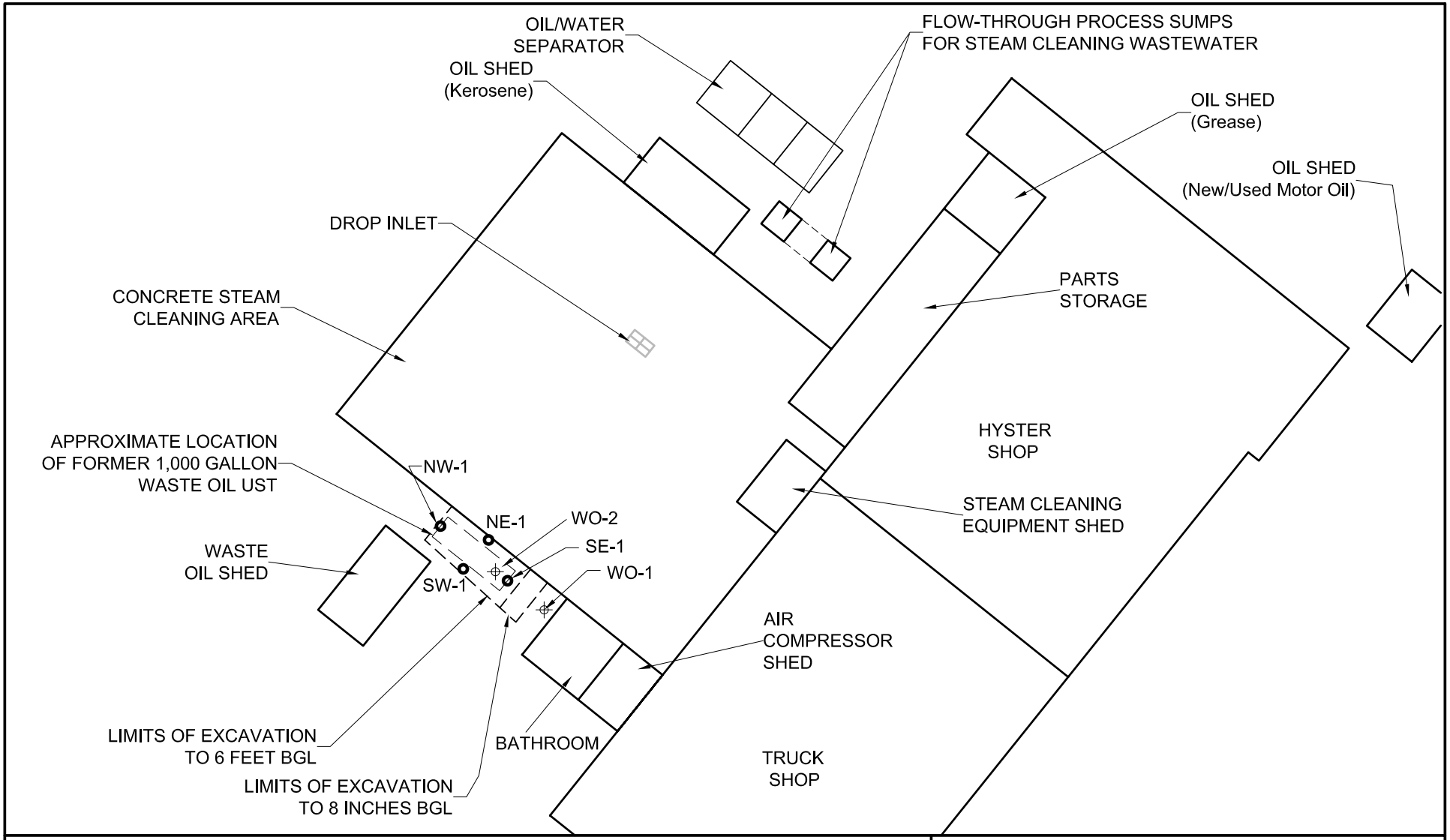
J:\030229\Task 07\UST Report\Fig 3.dwg PLOT SCALE 1:1



LEGEND

WO-1 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL BORING

SE-1 — APPROXIMATE LOCATION AND DESIGNATION OF CONFIRMATION SOIL SAMPLE

N

0 10 20

APPROXIMATE SCALE

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

LOCATIONS OF UST CONFIRMATION SAMPLES AND SOIL BORINGS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229.7	By: M. Hillyard	**Figure 3**
Date: 6/4/03	Checked: CGS	

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APPENDIX A

Humboldt County Department of Environmental Health
Boring Permit

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

Facility ID # 1NHU526 Permit # 27-F

Facility Name: Sierra Pacific Industries, Arcata Sawmill 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: FISCH ENVIRONMENTAL Telephone: 209-772-3571

Address: 399 SHERI'S PLACE, VALLEY SPRINGS, CA 95252 C-57 Lic.#: 683 865

# On-site		# Offsite	
Wells	Borings 4	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:

Disposal/Containment for Soil Cuttings: Ashburry / 55 gallon drum

Disposal/Containment for Rinsate: Ashburry / 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: 4-7-03

Facility ID # _____ **Permit #** _____

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: _____ **Date:** _____

Fee: _____ **Date:** _____ **Receipt:** _____

Initial Inspection: _____ **Date:** _____

Final Inspection: _____ **Date:** _____

APPENDIX B

Boring Log

MFG, Inc.

consulting scientists and engineers

LOG OF BORING WO-1

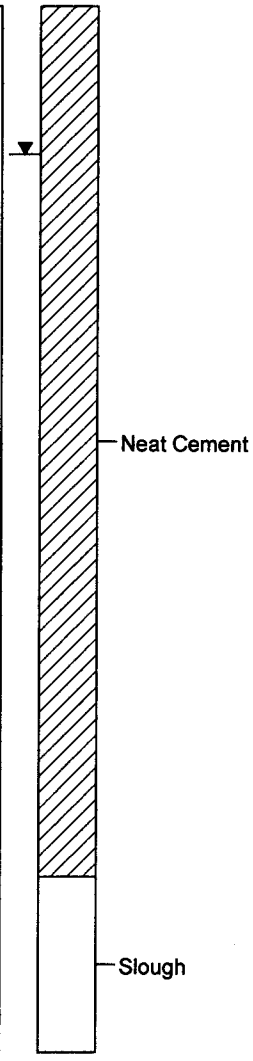
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

MFG Project No. 030229.7

Drilling Agency	: Fisch Environmental	Logged By	: Jason Triolo
Drilling Method	: Direct Push	Reviewed By	: Christopher Spill, R.G.
Sampler Type	: 2 1/4 inch-O.D., 4-foot long drive sampler		
Sampling Method	: PVC Liners		
Ground Elevation	: Not Surveyed		

Date Started: April 7, 2003
Date Finished: April 8, 2003

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Recovery (inches)	REMARKS
0	CONCRETE				PID calibrated using 96 ppmv isobutylene.
1	SAND: dk grey (2.5Y 4/1); Med sand, moist.	SW			PID = 9.3 ppmv (1.0 - 1.5 feet bgl).
2	SAND: v dk grey (2.5Y 2.5/1); Med to F sand, few subangular F gravel, wet.	SP	1	24	
6	SAND w/ GRAVEL: v dk grey (10YR 3/1); Med sand, some subrounded Med gravel, trace decomposed wood fragments, wet.	SP	2	0	No recovery due to obstruction.
8					PID = 3.2 ppmv (8.0 - 8.5 feet bgl).
9	SAND: dk grey (2.5Y 2.5/1); F to Med sand, wet.	SP	3	48	
11					PID = 3.0 ppmv (11.5 - 12.0 feet bgl).



NOTES:
1. Drilling terminated at 12 ft bgl.
2. Bottom of boring measured at 10 ft bgl.
3. Installed 1-inch diameter PVC temporary well with pre-packed sand filter sleeves to a depth of 10 ft bgl.
4. Depth to water measured at 1.7 ft bgl on April 8, 2003.
5. Collected a groundwater sample on April 8, 2003.
6. Removed temporary well and grouted the boring on April 8, 2003.

APPENDIX C

Well Development Record and Groundwater Sampling Record Field Forms

WELL DEVELOPMENT RECORD

WELL NUMBER: WO-1

Project No: 0300229 Project Name: SPI Arcata Sawmill (UST Investigation) PAGE: 1 of: 1

Date(s): 4/7/03

Developed by: JT + Fisch Env.

Measuring Point (MP) of Well: TOC

Screened Interval (ft.BGL): 0-10'

Filter Pack Interval (ft.BGL): 0-10' (Pre-Screened)

Casing Stick-Up/Down (ft.):

Starting Water Level (ft. BMP): 1.8

Total Depth (ft. BMP): 10.0 Water Column Height (ft.): 1.8

Casing Diameter (in. ID): .5" Multiplication Factor: .041

Casing Volume (gal.): .34 x 3 ≈ 1 gal

Water Level (ft.BMP) at End of Development: 2.3

Total Depth (ft. BMP) at End of Development: 10.0'

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Liquinox

Development: Peristaltic Pump

Disposal of Discharged Water: 55 gallon drum

INSTRUMENTS (indicate make, model, i.d.):

Water Level: 1.8

pH Meter: Ultrameter

Conductivity Meter: Ultrameter

Other: WLM

Thermometer: Ultrameter

Field Calibration: Y

Field Calibration: Y

Field Calibration: N

DEVELOPMENT MEASUREMENTS

Date/ Time	Purge Characteristics: Cumul.Vol. (gal)	Purge Characteristics: Water Level (ft. BGL)	Water Quality Data: Temp. (°C)	Water Quality Data: pH	Water Quality Data: Specific Conductance (µmhos/cm) @ Field Temp.	Water Quality Data: Specific Conductance (µmhos/cm) @ 25 °C.	Appearance: Color	Appearance: Turbidity & Sediment	Intake Depth (ft. BMP)	Remarks
4/7/03	0	.25gpm	12.1	7.08	167.7		greyborn	slight	≈9'	No Odor
12:30	.25		12.1	7.08	167.4		" "	" "		
12:35	.50		12.2	7.09	167.2		grey	" "		
12:37	.75		12.2	7.09	167.1		clear	none		
12:40	1.0		12.2	7.10	167.1		clear	" "		
12:42	1.25		12.3	7.10	166.8		clear	" "		

Total Discharge (gallons): ≈1.25 gallons Casing Volumes Removed: 1 plus

Observations/Comments:

ABBREVIATIONS:
BMP - below measuring point
BGL - below ground level
Cumul.Vol. - Cumulative volume removed
ID - Inside Diameter
C - Celsius
gal. - gallons
gpm - gallons per minute
in. - inches

Well Develop Form MAC/CAD Revised: 9-8-95

McCulley, Frick & Gilman, Inc.

* 4.5 gal of grout used when abandoned

GROUNDWATER SAMPLING RECORD

PAGE: 1 of: 1

SAMPLE NUMBER: WO-1

Project No: 030229. Project Name: SPI Arcata Sawmill Date 4/8/03

Sampling Location (well ID, etc.): WO-1 (Temp.)

Sampled by: JJ

Measuring Point (MP) of Well: TOC

Screened Interval (ft.BGL): 0'-10'

Filter Pack Interval (ft.BGL): 0'-10' (Pre-Screened)

Casing Stick-Up/Down (ft.):

Starting Water Level (ft. BMP):

Total Depth (ft. BMP): 10.0' Water Column Height (ft.): 1.7'

Casing Diameter (in. ID): .5" Multiplication Factor: .041 (1 inch)

Casing Volume (gal.): .34 2X: .6806 3X 1.02 4X

Water Level (ft.BMP) at End of Purge: 1.93'

Total Depth (ft. BMP) at End of Purge: 10.0'

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: Liquinox

Purging: Peristaltic Pump. Sampling:

Disposal of Discharged Water: 55 gallon drum

INSTRUMENTS (indicate make, model, i.d.):

Water Level: 1.7' bgl Thermometer: Used

pH Meter: Used (Hydrameter) Field Calibration: Yes

Conductivity Meter: Used Field Calibration: Yes

Other: WLM Field Calibration: No

SAMPLING MEASUREMENTS

Date/ Time	Purge Characteristics: Cumul.Vol. (gal)	Purge Rate (gpm)	Water Quality Data: Temp. (°C)	pH	Specific Conductance (µmhos/cm): @ Field Temp.	@ 25 °C.	Appearance: Color	Turbidity & Sediment	Intake Depth (ft. BMP)	Remarks
9:15	0	.2gpm	12.3	7.11	164.3		clear	none	≈9'	No Odor
9:16	.25	.2gpm	12.3	7.11	164.3		clear	none	≈9'	
9:17	.50	.2gpm	12.4	7.15	164.1		clear	none	≈5'	
9:18	.75	.2gpm	12.5	7.15	164.1		clear	none	≈5'	
9:19	1gal	.2gpm	12.6	7.14	164.1		clear	none	≈9'	No Odor or sheen

SAMPLE INVENTORY

Water Level (ft. BMP) Before Sampling: 1.7 Recovery %: Sample Intake Depth (ft. BMP): 9.0'

Bottles Collected: Time	Volume	Composition (glass, plastic)	Quantity	Filtration (Y/N)	Preservation (type)	Analysis	Remarks (quality control sample, other)
9:20	1L	Glass	4	N	none		Ser. COC
9:30	40ml	Glass	6	N	HCl		" "
9:40	1P	Plastic	1	Y	HNO_3		" "

Chain-of-Custody Record No. 43291, 43288

McCulley, Frick & Gilman, Inc.

APPENDIX D

Laboratory Reports and Chain-of-Custody Records for the Groundwater Sample from Boring WO-1

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

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 09:46
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	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WO-1	A304264-05	Water	04/08/03 00:00	04/09/03 15:30
WO-1	A304264-06	Water	04/08/03 00:00	04/09/03 15:30
WO-1	A304264-07	Water	04/08/03 00:00	04/09/03 15:30
WO-1	A304264-08	Water	04/08/03 00:00	04/09/03 15:30

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 09:46
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
WO-1 (A304264-05)			**Sample Type: Water**			**Sampled: 04/08/03 00:00**		
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM-SG)	EPA 1664	AD32308	04/21/03	04/22/03	1	ND mg/l	5.0	
TPH as Diesel and Motor Oil by EPA Method 8015 Modified								
TPH as Diesel	EPA 8015DRO	AD31515	04/15/03	04/18/03	1.136	**200 ug/l**	**57**	
TPH as Motor Oil	"	"	"	"	"	**290 "**	**110**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*46.2 %* *25-132*		
WO-1 (A304264-06)			**Sample Type: Water**			**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B								**R-04**
Acetone	EPA 8260B	AD31711	04/14/03	04/16/03	10	ND ug/l	50	
Benzene	"	"	"	"	"	ND "	3.0	
Bromobenzene	"	"	"	"	"	ND "	5.0	
Bromochloromethane	"	"	"	"	"	ND "	5.0	
Bromodichloromethane	"	"	"	"	"	ND "	5.0	
Bromoform	"	"	"	"	"	ND "	5.0	
Bromomethane	"	"	"	"	"	ND "	5.0	
n-Butylbenzene	"	"	"	"	"	ND "	5.0	
sec-Butylbenzene	"	"	"	"	"	ND "	5.0	
tert-Butylbenzene	"	"	"	"	"	ND "	5.0	
Carbon tetrachloride	"	"	"	"	"	ND "	5.0	
Chlorobenzene	"	"	"	"	"	ND "	5.0	
Chloroethane	"	"	"	"	"	ND "	5.0	
Chloroform	"	"	"	"	"	ND "	5.0	
Chloromethane	"	"	"	"	"	ND "	5.0	
2-Chlorotoluene	"	"	"	"	"	ND "	5.0	
4-Chlorotoluene	"	"	"	"	"	ND "	5.0	
Dibromochloromethane	"	"	"	"	"	ND "	5.0	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	5.0	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	5.0	
Dibromomethane	"	"	"	"	"	ND "	5.0	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	5.0	

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

Cheryl Watson For Sheri L. Speaks
Project Manager

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 09:46
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
WO-1 (A304264-06)			**Sample Type: Water**			**Sampled: 04/08/03 00:00**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
1,3-Dichlorobenzene	EPA 8260B	"	"	04/16/03	"	ND "	5.0	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
Dichlorodifluoromethane	"	"	"	"	"	ND "	5.0	
1,1-Dichloroethane	"	"	"	"	"	ND "	5.0	
1,2-Dichloroethane	"	"	"	"	"	ND "	5.0	
1,1-Dichloroethene	"	"	"	"	"	ND "	3.0	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	5.0	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	5.0	
1,2-Dichloropropane	"	"	"	"	"	ND "	5.0	
1,3-Dichloropropane	"	"	"	"	"	ND "	5.0	
2,2-Dichloropropane	"	"	"	"	"	ND "	5.0	
1,1-Dichloropropene	"	"	"	"	"	ND "	5.0	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	5.0	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	5.0	
Ethylbenzene	"	"	"	"	"	ND "	5.0	
Hexachlorobutadiene	"	"	"	"	"	ND "	5.0	
Isopropylbenzene	"	"	"	"	"	ND "	5.0	
p-Isopropyltoluene	"	"	"	"	"	ND "	5.0	
Methyl ethyl ketone	"	"	"	"	"	ND "	10	
Methyl isobutyl ketone	"	"	"	"	"	ND "	10	
Methyl tert-butyl ether	"	"	"	"	"	ND "	5.0	
Methylene chloride	"	"	"	"	"	ND "	5.0	
Naphthalene	"	"	"	"	"	ND "	5.0	
n-Propylbenzene	"	"	"	"	"	ND "	5.0	
Styrene	"	"	"	"	"	ND "	5.0	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	5.0	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	5.0	
Tetrachloroethene	"	"	"	"	"	ND "	5.0	
Toluene	"	"	"	"	"	ND "	3.0	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	5.0	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	5.0	

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
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Attn: Matt Hillyard

Report Date: 05/19/03 09:46
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
WO-1 (A304264-06)			**Sample Type: Water**			**Sampled: 04/08/03 00:00**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									**R-04**
1,1,1-Trichloroethane	EPA 8260B	"	"	04/16/03	"	ND "		5.0	
1,1,2-Trichloroethane	"	"	"	"	"	ND "		5.0	
Trichloroethene	"	"	"	"	"	ND "		5.0	
Trichlorofluoromethane	"	"	"	"	"	ND "		5.0	
Trichlorotrifluoroethane	"	"	"	"	"	ND "		5.0	
1,2,3-Trichloropropane	"	"	"	"	"	ND "		5.0	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "		5.0	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "		5.0	
Vinyl chloride	"	"	"	"	"	ND "		5.0	
m,p-Xylene	"	"	"	"	"	ND "		5.0	
o-Xylene	"	"	"	"	"	ND "		5.0	
Xylenes (total)	"	"	"	"	"	ND "		5.0	
Surrogate: Dibromofluoromethane	"	"	"	"		*116 %*	*70-130*		
Surrogate: Toluene-d8	"	"	"	"		*101 %*	*70-130*		
Surrogate: Bromofluorobenzene	"	"	"	"		*88.0 %*	*70-130*		
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	EPA 8015GRO	AD31707	04/16/03	04/16/03	1	ND ug/l		50	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*102 %*	*48-155*		
WO-1 (A304264-08)			**Sample Type: Water**			**Sampled: 04/08/03 00:00**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AD31405	04/14/03	04/15/03	1	ND mg/l		0.010	
Chromium	"	"	"	"	"	ND "		0.050	
Nickel	"	"	"	"	"	ND "		0.10	
Lead	"	"	"	"	"	ND "		0.050	
Zinc	"	"	"	"	"	ND "		0.10	

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 09:46
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	

SourceResult

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD31405 - EPA 3015 Microwave										
Blank (AD31405-BLK1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Cadmium	ND	0.010	mg/l							
Chromium	ND	0.050	"							
Lead	ND	0.050	"							
Nickel	ND	0.10	"							
Zinc	ND	0.10	"							
LCS (AD31405-BS1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Cadmium	0.226	0.010	mg/l	0.222		102	85-115			
Chromium	0.223	0.050	"	0.222		100	85-115			
Lead	0.216	0.050	"	0.222		97.3	85-115			
Nickel	0.225	0.10	"	0.222		101	85-115			
Zinc	0.234	0.10	"	0.222		105	93.4-124			
LCS Dup (AD31405-BSD1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Cadmium	0.229	0.010	mg/l	0.222		103	85-115	1.32	20	
Chromium	0.228	0.050	"	0.222		103	85-115	2.22	20	
Lead	0.223	0.050	"	0.222		100	85-115	3.19	20	
Nickel	0.231	0.10	"	0.222		104	85-115	2.63	20	
Zinc	0.234	0.10	"	0.222		105	93.4-124	0.00	20	
Duplicate (AD31405-DUP1)		**Source: A304323-01**		Prepared: 04/14/03 Analyzed: 04/15/03						
Cadmium	ND	0.010	mg/l		ND				20	
Chromium	ND	0.050	"		ND				20	
Lead	ND	0.050	"		ND				20	
Nickel	ND	0.10	"		ND				20	
Zinc	ND	0.10	"		ND				20	
Matrix Spike (AD31405-MS1)		**Source: A304323-01**		Prepared: 04/14/03 Analyzed: 04/15/03						

Cheryl Watson For Sheri L. Speaks
Project Manager

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

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Attn: Matt Hillyard

Report Date: 05/19/03 09:46
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	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD31405 - EPA 3015 Microwave										
Matrix Spike (AD31405-MS1)	**Source: A304323-01**			Prepared: 04/14/03		Analyzed: 04/15/03				
Cadmium	0.257	0.010	mg/l	0.222	ND	116	70-130			
Chromium	0.250	0.050	"	0.222	ND	113	70-130			
Lead	0.253	0.050	"	0.222	ND	114	70-130			
Nickel	0.258	0.10	"	0.222	ND	116	70-130			
Zinc	0.268	0.10	"	0.222	ND	112	70-130			
Matrix Spike Dup (AD31405-MSD1)	**Source: A304323-01**			Prepared: 04/14/03		Analyzed: 04/15/03				
Cadmium	0.250	0.010	mg/l	0.222	ND	113	70-130	2.76	20	
Chromium	0.244	0.050	"	0.222	ND	110	70-130	2.43	20	
Lead	0.245	0.050	"	0.222	ND	110	70-130	3.21	20	
Nickel	0.247	0.10	"	0.222	ND	111	70-130	4.36	20	
Zinc	0.262	0.10	"	0.222	ND	109	70-130	2.26	20	

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

Tetra Tech/MFG, Inc.

Cheryl Watson For Sheri L. Speaks
Project Manager

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

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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 AD31711 - EPA 5030 Water MS										
Blank (AD31711-BLK1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Acetone	ND	5.0	ug/l							
Benzene	ND	0.30	"							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD31711 - EPA 5030 Water MS										
Blank (AD31711-BLK1)				Prepared: 04/14/03 Analyzed: 04/15/03						
1,1-Dichloroethene	ND	0.30	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methyl ethyl ketone	ND	1.0	"							
Methyl isobutyl ketone	ND	1.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.30	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD31711 - EPA 5030 Water MS										
Blank (AD31711-BLK1)				Prepared: 04/14/03 Analyzed: 04/15/03						
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Trichlorotrifluoroethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
m,p-Xylene	ND	0.50	"							
o-Xylene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	*24.7*		"	*25.0*		*98.8*	*70-130*			
Surrogate: Toluene-d8	*23.9*		"	*25.0*		*95.6*	*70-130*			
Surrogate: Bromofluorobenzene	*20.6*		"	*25.0*		*82.4*	*70-130*			
LCS (AD31711-BS1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Acetone	22.3	5.0	ug/l	24.7		90.3	2-152			
Benzene	5.84	0.30	"	6.25		93.4	77-127			
Bromobenzene	6.59	0.50	"	6.25		105	87-116			
Bromochloromethane	6.36	0.50	"	6.25		102	76-122			
Bromodichloromethane	6.51	0.50	"	6.25		104	81-132			
Bromoform	6.82	0.50	"	6.25		109	84-121			
Bromomethane	7.37	0.50	"	6.25		118	60-145			
n-Butylbenzene	6.15	0.50	"	6.25		98.4	80-121			
sec-Butylbenzene	6.16	0.50	"	6.25		98.6	87-116			
tert-Butylbenzene	5.92	0.50	"	6.25		94.7	80-127			
Carbon tetrachloride	6.52	0.50	"	6.25		104	76-131			

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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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 AD31711 - EPA 5030 Water MS										
LCS (AD31711-BS1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Chlorobenzene	6.28	0.50	"	6.25		100	83-126			
Chloroethane	6.94	0.50	"	6.25		111	54-152			
Chloroform	6.48	0.50	"	6.25		104	79-135			
Chloromethane	6.32	0.50	"	6.25		101	62-130			
2-Chlorotoluene	6.15	0.50	"	6.25		98.4	76-126			
4-Chlorotoluene	6.00	0.50	"	6.25		96.0	76-126			
Dibromochloromethane	6.64	0.50	"	6.25		106	80-126			
1,2-Dibromo-3-chloropropane	7.05	0.50	"	6.25		113	76-117			
1,2-Dibromoethane (EDB)	6.59	0.50	"	6.25		105	83-115			
Dibromomethane	6.24	0.50	"	6.25		99.8	74-124			
1,2-Dichlorobenzene	6.26	0.50	"	6.25		100	83-129			
1,3-Dichlorobenzene	6.51	0.50	"	6.25		104	86-132			
1,4-Dichlorobenzene	6.14	0.50	"	6.25		98.2	84-123			
Dichlorodifluoromethane	6.83	0.50	"	6.25		109	43-135			
1,1-Dichloroethane	6.54	0.50	"	6.25		105	79-129			
1,2-Dichloroethane	5.88	0.50	"	6.25		94.1	79-129			
1,1-Dichloroethene	6.70	0.30	"	6.25		107	84-121			
cis-1,2-Dichloroethene	6.74	0.50	"	6.25		108	83-130			
trans-1,2-Dichloroethene	6.56	0.50	"	6.25		105	81-128			
1,2-Dichloropropane	5.81	0.50	"	6.25		93.0	80-126			
1,3-Dichloropropane	6.38	0.50	"	6.25		102	76-116			
2,2-Dichloropropane	6.84	0.50	"	6.25		109	39-131			
1,1-Dichloropropene	5.78	0.50	"	6.25		92.5	78-124			
cis-1,3-Dichloropropene	6.59	0.50	"	6.25		105	84-123			
trans-1,3-Dichloropropene	6.24	0.50	"	6.25		99.8	84-122			
Ethylbenzene	6.59	0.50	"	6.25		105	86-124			
Hexachlorobutadiene	6.90	0.50	"	6.25		110	72-135			

Cheryl Watson For Sheri L. Speaks
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Alpha Analytical Laboratories Inc.
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e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

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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 AD31711 - EPA 5030 Water MS										
LCS (AD31711-BS1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Isopropylbenzene	6.16	0.50	"	6.25		98.6	87-116			
p-Isopropyltoluene	5.79	0.50	"	6.25		92.6	87-116			
Methyl ethyl ketone	11.9	1.0	"	12.5		95.2	37-154			
Methyl isobutyl ketone	11.2	1.0	"	12.5		89.6	83-113			
Methyl tert-butyl ether	6.41	0.50	"	6.25		103	75-126			
Methylene chloride	6.26	0.50	"	6.25		100	79-121			
Naphthalene	5.90	0.50	"	6.25		94.4	73-121			
n-Propylbenzene	5.98	0.50	"	6.25		95.7	87-115			
Styrene	5.57	0.50	"	6.25		89.1	62-135			
1,1,1,2-Tetrachloroethane	7.11	0.50	"	6.25		114	82-123			
1,1,2,2-Tetrachloroethane	6.46	0.50	"	6.25		103	83-115			
Tetrachloroethene	6.40	0.50	"	6.25		102	75-135			
Toluene	6.70	0.30	"	6.25		107	85-127			
1,2,3-Trichlorobenzene	6.26	0.50	"	6.25		100	88-122			
1,2,4-Trichlorobenzene	6.23	0.50	"	6.25		99.7	85-122			
1,1,1-Trichloroethane	6.72	0.50	"	6.25		108	76-130			
1,1,2-Trichloroethane	6.30	0.50	"	6.25		101	81-128			
Trichloroethene	6.33	0.50	"	6.25		101	82-126			
Trichlorofluoromethane	6.33	0.50	"	6.25		101	76-124			
Trichlorotrifluoroethane	6.14	0.50	"	6.15		99.8	71-136			
1,2,3-Trichloropropane	6.11	0.50	"	6.25		97.8	84-119			
1,2,4-Trimethylbenzene	6.12	0.50	"	6.25		97.9	86-114			
1,3,5-Trimethylbenzene	5.92	0.50	"	6.25		94.7	87-117			
Vinyl chloride	6.31	0.50	"	6.25		101	61-150			
m,p-Xylene	13.4	0.50	"	12.5		107	86-116			
o-Xylene	6.23	0.50	"	6.25		99.7	82-117			
Xylenes (total)	19.6	0.50	"	18.8		104	82-117			

Cheryl Watson For Sheri L. Speaks
Project Manager

5/19/03

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

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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 AD31711 - EPA 5030 Water MS										
LCS (AD31711-BS1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Surrogate: Dibromofluoromethane	*23.4*		"	*25.0*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*24.3*		"	*25.0*		*97.2*	*70-130*			
Surrogate: Bromofluorobenzene	*23.3*		"	*25.0*		*93.2*	*70-130*			
LCS Dup (AD31711-BSD1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Acetone	19.6	5.0	ug/l	24.7		79.4	2-152	12.9	25	
Benzene	5.03	0.30	"	6.25		80.5	77-127	14.9	25	
Bromobenzene	6.32	0.50	"	6.25		101	87-116	4.18	25	
Bromochloromethane	5.94	0.50	"	6.25		95.0	76-122	6.83	25	
Bromodichloromethane	6.09	0.50	"	6.25		97.4	81-132	6.67	25	
Bromoform	6.92	0.50	"	6.25		111	84-121	1.46	25	
Bromomethane	6.71	0.50	"	6.25		107	60-145	9.37	25	
n-Butylbenzene	5.93	0.50	"	6.25		94.9	80-121	3.64	25	
sec-Butylbenzene	5.89	0.50	"	6.25		94.2	87-116	4.48	25	
tert-Butylbenzene	5.83	0.50	"	6.25		93.3	80-127	1.53	25	
Carbon tetrachloride	7.16	0.50	"	6.25		115	76-131	9.36	25	
Chlorobenzene	6.01	0.50	"	6.25		96.2	83-126	4.39	25	
Chloroethane	6.27	0.50	"	6.25		100	54-152	10.1	25	
Chloroform	5.87	0.50	"	6.25		93.9	79-135	9.88	25	
Chloromethane	5.93	0.50	"	6.25		94.9	62-130	6.37	25	
2-Chlorotoluene	5.82	0.50	"	6.25		93.1	76-126	5.51	25	
4-Chlorotoluene	5.89	0.50	"	6.25		94.2	76-126	1.85	25	
Dibromochloromethane	6.59	0.50	"	6.25		105	80-126	0.756	25	
1,2-Dibromo-3-chloropropane	6.58	0.50	"	6.25		105	76-117	6.90	25	
1,2-Dibromoethane (EDB)	6.68	0.50	"	6.25		107	83-115	1.36	25	
Dibromomethane	5.86	0.50	"	6.25		93.8	74-124	6.28	25	
1,2-Dichlorobenzene	6.14	0.50	"	6.25		98.2	83-129	1.94	25	

Cheryl Watson For Sheri L. Speaks
Project Manager

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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 09:46
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 AD31711 - EPA 5030 Water MS										
LCS Dup (AD31711-BSD1)				Prepared: 04/14/03 Analyzed: 04/15/03						
1,3-Dichlorobenzene	6.23	0.50	"	6.25		99.7	86-132	4.40	25	
1,4-Dichlorobenzene	6.07	0.50	"	6.25		97.1	84-123	1.15	25	
Dichlorodifluoromethane	6.39	0.50	"	6.25		102	43-135	6.66	25	
1,1-Dichloroethane	5.92	0.50	"	6.25		94.7	79-129	9.95	25	
1,2-Dichloroethane	5.69	0.50	"	6.25		91.0	79-129	3.28	25	
1,1-Dichloroethene	6.07	0.30	"	6.25		97.1	84-121	9.87	25	
cis-1,2-Dichloroethene	5.99	0.50	"	6.25		95.8	83-130	11.8	25	
trans-1,2-Dichloroethene	6.23	0.50	"	6.25		99.7	81-128	5.16	25	
1,2-Dichloropropane	5.50	0.50	"	6.25		88.0	80-126	5.48	25	
1,3-Dichloropropane	6.53	0.50	"	6.25		104	76-116	2.32	25	
2,2-Dichloropropane	6.46	0.50	"	6.25		103	39-131	5.71	25	
1,1-Dichloropropene	5.99	0.50	"	6.25		95.8	78-124	3.57	25	
cis-1,3-Dichloropropene	6.55	0.50	"	6.25		105	84-123	0.609	25	
trans-1,3-Dichloropropene	5.98	0.50	"	6.25		95.7	84-122	4.26	25	
Ethylbenzene	6.23	0.50	"	6.25		99.7	86-124	5.62	25	
Hexachlorobutadiene	6.82	0.50	"	6.25		109	72-135	1.17	25	
Isopropylbenzene	6.08	0.50	"	6.25		97.3	87-116	1.31	25	
p-Isopropyltoluene	5.57	0.50	"	6.25		89.1	87-116	3.87	25	
Methyl ethyl ketone	10.3	1.0	"	12.5		82.4	37-154	14.4	25	
Methyl isobutyl ketone	10.1	1.0	"	12.5		80.8	68-125	10.3	25	
Methyl tert-butyl ether	6.16	0.50	"	6.25		98.6	75-126	3.98	25	
Methylene chloride	5.63	0.50	"	6.25		90.1	79-121	10.6	25	
Naphthalene	5.62	0.50	"	6.25		89.9	73-121	4.86	25	
n-Propylbenzene	5.90	0.50	"	6.25		94.4	87-115	1.35	25	
Styrene	5.32	0.50	"	6.25		85.1	62-135	4.59	25	
1,1,1,2-Tetrachloroethane	7.06	0.50	"	6.25		113	82-123	0.706	25	
1,1,2,2-Tetrachloroethane	6.21	0.50	"	6.25		99.4	83-115	3.95	25	

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

Cheryl Watson For Sheri L. Speaks
Project Manager

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 09:46
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 AD31711 - EPA 5030 Water MS										
LCS Dup (AD31711-BSD1)				Prepared: 04/14/03 Analyzed: 04/15/03						
Tetrachloroethene	6.44	0.50	"	6.25		103	75-135	0.623	25	
Toluene	6.66	0.30	"	6.25		107	85-127	0.599	25	
1,2,3-Trichlorobenzene	6.03	0.50	"	6.25		96.5	88-122	3.74	25	
1,2,4-Trichlorobenzene	6.19	0.50	"	6.25		99.0	85-122	0.644	25	
1,1,1-Trichloroethane	6.61	0.50	"	6.25		106	76-130	1.65	25	
1,1,2-Trichloroethane	6.59	0.50	"	6.25		105	81-128	4.50	25	
Trichloroethene	6.18	0.50	"	6.25		98.9	82-126	2.40	25	
Trichlorofluoromethane	5.78	0.50	"	6.25		92.5	76-124	9.08	25	
Trichlorotrifluoroethane	6.02	0.50	"	6.15		97.9	71-136	1.97	25	
1,2,3-Trichloropropane	5.85	0.50	"	6.25		93.6	84-119	4.35	25	
1,2,4-Trimethylbenzene	5.86	0.50	"	6.25		93.8	86-114	4.34	25	
1,3,5-Trimethylbenzene	5.77	0.50	"	6.25		92.3	87-117	2.57	25	
Vinyl chloride	6.00	0.50	"	6.25		96.0	61-150	5.04	25	
m,p-Xylene	12.9	0.50	"	12.5		103	86-116	3.80	25	
o-Xylene	5.90	0.50	"	6.25		94.4	82-117	5.44	25	
Xylenes (total)	18.8	0.50	"	18.8		100	82-117	4.17	25	
Surrogate: Dibromofluoromethane	*23.1*		"	*25.0*		*92.4*	*70-130*			
Surrogate: Toluene-d8	*24.4*		"	*25.0*		*97.6*	*70-130*			
Surrogate: Bromofluorobenzene	*23.4*		"	*25.0*		*93.6*	*70-130*			
Matrix Spike (AD31711-MS1)	**Source: A304350-01**			Prepared: 04/14/03 Analyzed: 04/15/03						
Acetone	22.8	5.0	ug/l	24.7	ND	92.3	2-152			
Benzene	5.88	0.30	"	6.25	ND	94.1	77-127			
Bromobenzene	6.16	0.50	"	6.25	ND	98.6	87-116			
Bromochloromethane	5.11	0.50	"	6.25	ND	81.8	76-122			
Bromodichloromethane	6.26	0.50	"	6.25	ND	100	81-132			
Bromoform	6.58	0.50	"	6.25	ND	105	84-121			

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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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Report Date: 05/19/03 09:46
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 AD31711 - EPA 5030 Water MS										
Matrix Spike (AD31711-MS1)	**Source: A304350-01**			Prepared: 04/14/03		Analyzed: 04/15/03				
Bromomethane	7.05	0.50	"	6.25	ND	113	60-145			
n-Butylbenzene	6.24	0.50	"	6.25	ND	99.8	80-121			
sec-Butylbenzene	6.02	0.50	"	6.25	ND	96.3	87-116			
tert-Butylbenzene	5.90	0.50	"	6.25	ND	94.4	80-127			
Carbon tetrachloride	6.44	0.50	"	6.25	ND	103	76-131			
Chlorobenzene	5.90	0.50	"	6.25	ND	94.4	83-126			
Chloroethane	6.63	0.50	"	6.25	ND	106	54-152			
Chloroform	5.97	0.50	"	6.25	ND	95.5	79-135			
Chloromethane	6.27	0.50	"	6.25	ND	100	62-130			
2-Chlorotoluene	6.00	0.50	"	6.25	ND	96.0	76-126			
4-Chlorotoluene	5.84	0.50	"	6.25	ND	93.4	76-126			
Dibromochloromethane	6.56	0.50	"	6.25	ND	105	80-126			
1,2-Dibromo-3-chloropropane	6.82	0.50	"	6.25	ND	109	76-117			
1,2-Dibromoethane (EDB)	6.36	0.50	"	6.25	ND	102	83-115			
Dibromomethane	5.72	0.50	"	6.25	ND	91.5	74-124			
1,2-Dichlorobenzene	6.07	0.50	"	6.25	ND	97.1	83-129			
1,3-Dichlorobenzene	6.27	0.50	"	6.25	ND	100	86-132			
1,4-Dichlorobenzene	6.13	0.50	"	6.25	ND	98.1	84-123			
Dichlorodifluoromethane	7.06	0.50	"	6.25	ND	113	43-135			
1,1-Dichloroethane	6.30	0.50	"	6.25	ND	101	79-129			
1,2-Dichloroethane	6.10	0.50	"	6.25	ND	97.6	79-129			
1,1-Dichloroethene	6.50	0.30	"	6.25	ND	104	84-121			
cis-1,2-Dichloroethene	5.54	0.50	"	6.25	ND	88.6	83-130			
trans-1,2-Dichloroethene	6.49	0.50	"	6.25	ND	104	81-128			
1,2-Dichloropropane	6.22	0.50	"	6.25	ND	99.5	80-126			
1,3-Dichloropropane	6.35	0.50	"	6.25	ND	102	76-116			
2,2-Dichloropropane	5.66	0.50	"	6.25	ND	90.6	39-131			

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

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Attn: Matt Hillyard

Report Date: 05/19/03 09:46
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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 AD31711 - EPA 5030 Water MS										
Matrix Spike (AD31711-MS1)	**Source: A304350-01**			Prepared: 04/14/03		Analyzed: 04/15/03				
1,1-Dichloropropene	6.41	0.50	"	6.25	ND	103	78-124			
cis-1,3-Dichloropropene	5.75	0.50	"	6.25	ND	92.0	84-123			
trans-1,3-Dichloropropene	5.98	0.50	"	6.25	ND	95.7	84-122			
Ethylbenzene	6.26	0.50	"	6.25	ND	100	86-124			
Hexachlorobutadiene	6.95	0.50	"	6.25	ND	111	72-135			
Isopropylbenzene	6.04	0.50	"	6.25	ND	96.6	87-116			
p-Isopropyltoluene	5.69	0.50	"	6.25	ND	91.0	87-116			
Methyl ethyl ketone	11.8	1.0	"	12.5	ND	94.4	37-154			
Methyl isobutyl ketone	11.2	1.0	"	12.5	ND	89.6	83-113			
Methyl tert-butyl ether	6.40	0.50	"	6.25	ND	102	75-126			
Methylene chloride	6.00	0.50	"	6.25	ND	96.0	79-121			
Naphthalene	5.66	0.50	"	6.25	ND	90.6	73-121			
n-Propylbenzene	5.95	0.50	"	6.25	ND	95.2	87-115			
Styrene	5.53	0.50	"	6.25	ND	88.5	58-153			
1,1,1,2-Tetrachloroethane	7.19	0.50	"	6.25	ND	115	82-123			
1,1,2,2-Tetrachloroethane	6.13	0.50	"	6.25	ND	98.1	83-115			
Tetrachloroethene	6.44	0.50	"	6.25	ND	103	75-135			
Toluene	6.44	0.30	"	6.25	ND	103	85-127			
1,2,3-Trichlorobenzene	6.08	0.50	"	6.25	ND	97.3	88-122			
1,2,4-Trichlorobenzene	6.14	0.50	"	6.25	ND	98.2	85-122			
1,1,1-Trichloroethane	6.55	0.50	"	6.25	ND	105	76-130			
1,1,2-Trichloroethane	6.50	0.50	"	6.25	ND	104	81-128			
Trichloroethene	6.24	0.50	"	6.25	ND	99.8	82-126			
Trichlorofluoromethane	6.44	0.50	"	6.25	ND	103	76-124			
Trichlorotrifluoroethane	6.46	0.50	"	6.15	ND	105	71-136			
1,2,3-Trichloropropane	5.88	0.50	"	6.25	ND	94.1	84-119			
1,2,4-Trimethylbenzene	5.89	0.50	"	6.25	ND	94.2	86-114			

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

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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 AD31711 - EPA 5030 Water MS										
Matrix Spike (AD31711-MS1)	**Source: A304350-01**			Prepared: 04/14/03		Analyzed: 04/15/03				
1,3,5-Trimethylbenzene	5.77	0.50	"	6.25	ND	92.3	87-117			
Vinyl chloride	6.56	0.50	"	6.25	ND	105	61-150			
m,p-Xylene	13.1	0.50	"	12.5	ND	105	86-116			
o-Xylene	5.94	0.50	"	6.25	ND	95.0	82-117			
Xylenes (total)	19.0	0.50	"	18.8	ND	101	82-117			
Surrogate: Dibromofluoromethane	*22.2*		"	*25.0*		*88.8*	*70-130*			
Surrogate: Toluene-d8	*24.0*		"	*25.0*		*96.0*	*70-130*			
Surrogate: Bromofluorobenzene	*22.6*		"	*25.0*		*90.4*	*70-130*			

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

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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 AD32308 - General Preparation										
Blank (AD32308-BLK1)				Prepared: 04/21/03 Analyzed: 04/22/03						
Oil & Grease (HEM-SG)	ND	5.0	mg/l							
LCS (AD32308-BS1)				Prepared: 04/21/03 Analyzed: 04/22/03						
Oil & Grease (HEM-SG)	9.50	5.0	mg/l	10.0		95.0	83-116			
LCS Dup (AD32308-BSD1)				Prepared: 04/21/03 Analyzed: 04/22/03						
Oil & Grease (HEM-SG)	9.30	5.0	mg/l	10.0		93.0	83-116	2.13	28	

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Project Manager

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

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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 AD31515 - EPA 3510B Water										
Blank (AD31515-BLK1)				Prepared: 04/15/03 Analyzed: 04/17/03						
TPH as Diesel	ND	50	ug/l							
TPH as Motor Oil	ND	100	"							
Surrogate: 1,4-Bromofluorobenzene	*398*		"	*686*		*58.0*	*25-132*			
LCS (AD31515-BS1)				Prepared: 04/15/03 Analyzed: 04/17/03						
TPH as Diesel	2090	50	ug/l	2020		103	70-130			
TPH as Motor Oil	2200	100	"	2030		108	70-130			
Surrogate: 1,4-Bromofluorobenzene	*420*		"	*686*		*61.2*	*25-132*			
Matrix Spike (AD31515-MS1)	**Source: A304261-01**			Prepared: 04/15/03 Analyzed: 04/18/03						
TPH as Diesel	2220	50	ug/l	2020	ND	110	70-130			
TPH as Motor Oil	2180	100	"	2030	ND	107	70-130			
Surrogate: 1,4-Bromofluorobenzene	*434*		"	*686*		*63.3*	*25-132*			
Matrix Spike Dup (AD31515-MSD1)	**Source: A304261-01**			Prepared: 04/15/03 Analyzed: 04/18/03						
TPH as Diesel	2260	50	ug/l	2020	ND	112	70-130	1.79	20	
TPH as Motor Oil	2400	100	"	2030	ND	118	70-130	9.61	20	
Surrogate: 1,4-Bromofluorobenzene	*422*		"	*686*		*61.5*	*25-132*			

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

TPH as Gasoline by GCFID/5030 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD31707 - EPA 5030 Water GC										
Blank (AD31707-BLK1)				Prepared & Analyzed: 04/16/03						
TPH as Gasoline	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	*22.2*		"	*23.1*		*96.1*	*48-155*			
LCS (AD31707-BS2)				Prepared & Analyzed: 04/16/03						
TPH as Gasoline	52.3	50	ug/l	50.0		105	65-124			
Surrogate: 1,4-Bromofluorobenzene	*20.7*		"	*20.0*		*104*	*48-155*			
LCS Dup (AD31707-BSD2)				Prepared & Analyzed: 04/16/03						
TPH as Gasoline	51.2	50	ug/l	50.0		102	65-124	2.13	14	
Surrogate: 1,4-Bromofluorobenzene	*19.8*		"	*20.0*		*99.0*	*48-155*			

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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 09:46
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	

Notes and Definitions

R-04	The Reporting Limits for this analysis are elevated due to sample foaming.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

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

Alpha Analytical Laboratories	Client Project ID: #A304264	Date Sampled: 04/08/03
208 Mason Street		Date Received: 04/15/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 04/15/03
	Client P.O.:	Date Analyzed: 04/16/03

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

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0304219

Lab ID	0304219-001A
Client ID	A304264-07 WO-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	10
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	10
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	10	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	10	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	10	2-Nitrophenol	ND	1.0	10
4-Nitrophenol	ND	1.0	10	Nitrobenzene	ND	1.0	50
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Polychlorinated Biphenyls (PCB)	ND	1.0	100
Pyrene	ND	1.0	10	1,2,4-Trichlorobenzene	ND	1.0	10
2,4,5-Trichlorophenol	ND	1.0	10	2,4,6-Trichlorophenol	ND	1.0	10

Surrogate Recoveries (%)

%SS:	55.4	%SS:	65.9
%SS:	65.2	%SS:	50.5
%SS:	56.4	%SS:	83.7

Comments:

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

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

surrogate diluted out of range.

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

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DHS Certification No. 1644

Angela Rydelius, Lab Manager

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

QC SUMMARY REPORT FOR SW8270D

Matrix: W WorkOrder: 0304219

EPA Method: SW8270D Extraction: SW3510C BatchID: 6560 Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Acenaphthene	N/A	50	N/A	N/A	N/A	58.9	56.9	3.46	30	130
4-Chloro-3-methylphenol	N/A	100	N/A	N/A	N/A	54.6	53	3.01	30	130
2-Chlorophenol	N/A	100	N/A	N/A	N/A	58.8	57.7	1.97	30	130
1,4-Dichlorobenzene	N/A	50	N/A	N/A	N/A	57.6	55.8	3.10	30	130
2,4-Dinitrotoluene	N/A	50	N/A	N/A	N/A	51.3	49	4.55	30	130
4-Nitrophenol	N/A	100	N/A	N/A	N/A	52.3	50.9	2.64	30	130
N-Nitrosodi-n-propylamine	N/A	50	N/A	N/A	N/A	67.6	64.2	5.13	30	130
Pentachlorophenol	N/A	100	N/A	N/A	N/A	42.5	42.4	0.271	30	130
Phenol	N/A	100	N/A	N/A	N/A	49.3	48	2.70	30	130
Pyrene	N/A	50	N/A	N/A	N/A	54.3	52.7	2.88	30	130
1,2,4-Trichlorobenzene	N/A	50	N/A	N/A	N/A	59.3	57.6	2.82	30	130
%SS5:	N/A	100	N/A	N/A	N/A	80.5	79.1	1.80	30	130

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

NONE

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

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

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

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

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, Boism, Silica Gel	Oil/Grease 1664	VOC, 8260 + EDC/EDB	PCP/MCP Canadian 8270	TPPH gasoline 5030/8015m	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

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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. Irvolo	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

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43291

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

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

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

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

SAMPLES													ANALYSIS REQUEST											
	Sample			Preservation					Containers				Constituents/Method					Handling			Remarks			
Field Sample Identification	DATE	TIME	Matrix*	HCl	HNO_3	H_2SO_4	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.		EPA 8270 + PCB, pesticides	VOC 8260	Heavy metals EPA 6010/7471			HOLD	RUSH	STANDARD	A3042604			
WO-1	4-8-03		Aq				✓		1L	G	2		✓								Please contact -7			
WO-1	4-8-03		Aq		✓		✓	✓	1pt	P	1			✓							Orrin Phelps -8			
																					regarding WO-2			
WO-2 (Sample)	4/7/03		Aq				✓			G	1							✓			(sample) analysis			

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TOT

CONDITION OF SAMPLES Cooler Temp:

Sample on way

WO-2 Waste Oil product - Hold -

RELINQUISHED BY:		
SIGNATURE	PRINTED NAME	COMPANY
	V. Iriolo	MFG
	John Taylor	Alpha

RECIEVED BY:	
PRINTED NAME	COMPANY
John Taylor	Alpha
Shari Speaks	Alpha
	LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleun

n: F - filtered U - unfiltered

DISTRIBUTION: PINK

APPENDIX E

Underground Storage Tank Removal Permit

ARCATA FIRE PROTECTION DISTRICT

PERMIT

TO MAINTAIN, STORE, USE OR HANDLE MATERIALS OR TO CONDUCT PROCESSES WHICH PRODUCE HAZARDOUS CONDITIONS TO LIFE OR PROPERTY, OR TO INSTALL EQUIPMENT USED IN CONNECTION WITH SUCH ACTIVITIES.

DATE 0411 2003 PERMIT VALID THROUGH - 0430 2003

To Whom It May Concern:

By virtue of the provisions of the Fire Prevention Regulations of the Arcata Fire Protection District, ORJW PLOUGHER CONSUCTANT
Name of Concern

1165 G St, Suite E conducting a CONSULTING
Address Operation

Having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be observed, authority is hereby given and this PERMIT is GRANTED for REMOVAL OF A 500 GALLON WASTE OIL TANK FROM SIERRA PACIFIC INDUSTRIES 2293 SAMOA BLVD. TO A HAZARDOUS WASTE SITE OUT OF COUNTY

This PERMIT is issued and accepted on condition that all Regulations now adopted or that may hereafter be adopted, shall be complied with.

This permit does not take the place of any License required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

Authorized Agent or Chief of Fire Department

THIS PERMIT MUST AT ALL TIMES BE KEPT ON THE PREMISES MENTIONED ABOVE

HUMBOLDT COUNTY UNDERGROUND STORAGE TANK PROGRAM

RECEIVED
APR 14 2003
HUMBOLDT CO. DIVISION OF ENVIRONMENTAL HEALTH

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF ENVIRONMENTAL HEALTH (DEH)
100 H STREET, SUITE 100
EUREKA, CA 95501
(707) 445-6215

APPLICATION FOR PERMIT FOR:

- ☐ Repair/modification (includes leak detection & product lines)
- ☐ Installation
- ☒ Closure

Date Paid: 4-14-2003
Receipt #: 215207
Amount: $704.00

Identify tank(s) involved: 500 gallon waste oil UST

Application is hereby made to the Humboldt County Health Officer for a permit to construct, repair, or alter an underground storage tank, or for closure, temporary or permanent. This permit application must be signed on all three signature lines by the same person. i.e., contractor or owner/operator.

FACILITY NAME: Arcata Division Sawmill
FACILITY ADDRESS: 2293 Samoa Road
CITY/STATE/ZIP: Arcata, CA 95521 PHONE: 707-443-3111
CROSS STREET: FIRE DISTRICT: Arcata
OWNER'S NAME: Sierra Pacific Industries
OWNER'S ADDRESS: PO Box 496028
CITY/STATE/ZIP: Redding, CA 96049-6028 PHONE: 530-378-8000
OPERATOR'S NAME: Sierra Pacific Industries
OPERATOR'S ADDRESS: PO Box 496028
CITY/STATE/ZIP: Redding, CA 96049-6028 PHONE: 530-378-8000
CONTRACTOR'S NAME: Hake Construction
CONTRACTOR'S ADDRESS: 290 Greenwood Heights Drive
CITY/STATE/ZIP: Eureka, CA PHONE: 707-445-3930

TERMS OF PERMIT - Applicant Agrees That:

1) Humboldt County DEH will be notified a minimum of 48 hours prior to commencing work.
2) Humboldt County DEH inspection will be obtained prior to backfilling and/or covering the work (where applicable).
3) ANY DEVIATION from the approved permit without prior approval from the Humboldt County DEH may be cause for stopping work until the changes are fully justified and approved.
4) This permit is subject to revocation if found to be in nonconformance with Humboldt County Code, City Codes, or standards of the Humboldt County DEH or State Underground Storage Tank Regulations.
5) I, the undersigned owner/operator/applicant of the subject facility, hereby authorize Alpha Analytical to release any and all analytical results, geotechnical data and site assessment information to the Humboldt County DEH as soon as it is available and is provided to me or any representative.
6) Additional Items:

It is understood that the issuance of a permit in no way indicates that a guarantee of perfect and indefinite operation is made by the Humboldt County DEH. I hereby acknowledge that I have read this application and state that the above is correct and agree to comply with all County and applicable city ordinances, and state laws regulating underground storage tanks. This permit shall expire by limitation if work authorized is not commenced within 90 days.

x _____
SIGNATURE OF APPLICANT

The undersigned applicant certifies the following:
☒ Yes ☐ No **Coastal Zone Permit Agency contacted, if project is in Coastal Zone.**

CONTRACTORS' LICENSE LAW CERTIFICATE (Complete A or B)

☒ A. The applicant is licensed under the provisions of the Contractors' License Law under License # 689203 and said license is in full force and effect.

☐ B. The applicant is exempt from the provisions of the Contractors' License Law for the following reason:
- ☐ 1) Owner/Operator
- ☐ 2) Other (explain)

x Hake Construction
APPLICANT DATE:

WORKERS' COMPENSATION CERTIFICATE (Complete A or B)

☒ A. A currently effective certificate of Workers' Compensation insurance coverage is on file with the Humboldt County DEH, Policy # 1190367-02

☐ B. I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation laws of California.

x Hake Construction
APPLICANT DATE:

PLAN APPROVED: [signature] DATE: 4-11-2003 WORK APPROVED: _____ DATE: _____

EXPIRATION DATE: _____

NON TRANSFERABLE

WHEN APPROVED, THIS IS YOUR PERMIT

UST 4/2002

HUMBOLDT COUNTY UNDERGROUND STORAGE TANK PROGRAM
SUPPLEMENTAL TANK CLOSURE PERMIT APPLICATION

FACILITY NAME: Arcata Division Sawmill

FACILITY ADDRESS: 2293 Samoa Road

NUMBER TANKS CLOSED/REMOVED: 1 NUMBER TANKS REMAINING: 0

CONTRACTOR'S NAME: Hafse Construction PHONE: 707-445-3930

INDICATE TYPE OF TANK CLOSURE YOU ARE APPLYING FOR:

☒ PERMANENT CLOSURE OR ☐ TEMPORARY CLOSURE
☒ REMOVAL
☐ CLOSURE IN-PLACE

NOTE: "TANK" INCLUDES **ALL ASSOCIATED PIPING** WHICH CAN HOLD STANDING FLUID AND IS NOT PREVENTED FROM HOLDING STANDING FLUID BY AN APPROVED DEVICE, FROM THE TIME OF INSTALLATION.

PROVIDE THE FOLLOWING FOR EACH TANK:

TANK CAPACITY (GALLONS)	AGE OF TANK (YEARS)	TANK CONTENTS	REMAINING PRODUCT (GALLONS)
500	unknown	Waste oil	0

DATE TANK(S) LAST OPERATED _____

ALL TANK(S) CONTENTS MUST BE REMOVED AND DESTINATION DOCUMENTED PRIOR TO CLOSURE.

REMAINING PRODUCT DESTINATION: NA

NAME OF COMPANY HAULING REMAINING PRODUCT: NA

EPA HAZARDOUS WASTE GENERATOR NUMBER FOR THIS FACILITY: NA

SOIL/WATER SAMPLING FOR PRODUCT CONTAMINATION MUST BE DONE FOR PERMANENT TANK CLOSURE.

NAME OF LABORATORY TO BE USED FOR ANALYSIS: Alpha Analytical PHONE: 707-468-0401

NOTE: **SUBMIT A COPY OF ANALYTICAL TEST RESULTS TO THE HUMBOLDT COUNTY DIVISION OF ENVIRONMENTAL HEALTH WITHIN 30 DAYS OF CLOSURE ACTIVITIES.**

HUMBOLDT COUNTY UNDERGROUND STORAGE TANK PROGRAM
SUPPLEMENTAL TANK CLOSURE PERMIT APPLICATION

FOR ALL TYPES OF TANK CLOSURE, THE APPLICANT MUST **PROVIDE A PLOT PLAN** OF THE EXISTING FACILITY SHOWING PROPERTY BOUNDARIES, LOCATION OF TANKS AND PIPING TO BE CLOSED OR REMOVED, UNDERGROUND UTILITIES, WELLS, AND ANY REMAINING TANKS.

SECTION I - TANK REMOVAL

WILL THE TANK(S) AND PIPING BE CLEANED ON SITE? ☐ YES ☒ NO

IF YES: NAME OF COMPANY CLEANING TANK AND PIPING: _____

METHOD OF CLEANING TANK: _____

METHOD OF CLEANING PIPING: _____

NAME OF COMPANY HAULING RINSATE: Remaining contents pumped / hauled by Chico Drain Oil

COMPANY'S DHS HAZARDOUS WASTE HAULER'S LICENSE NO.: _____

TANK/PIPING DESTINATION (FACILITY NAME AND ADDRESS): _____

IF NO: NAME OF COMPANY HAULING TANK AND PIPING: ECI, Richmond, CA

COMPANY'S DHS HAZARDOUS WASTE HAULER'S LICENSE NO.: 0019

TREATMENT, STORAGE AND DISPOSAL FACILITY NAME AND ADDRESS: ECI, Richmond, CA 255 Parr Blvd Richmond, CA 94801

WILL THE TANK(S) BE USED FOR SCRAP METAL? ☒ YES ☐ NO

IF YES: SCRAP FACILITY NAME AND ADDRESS: Levin Metals, Richmond CA

ARE THE REMOVED TANK(S) PROPOSED FOR A SPECIFIC REUSE? ☐ YES ☒ NO

IF YES: NAME OF OWNER: _____

LOCATION OF REUSE: _____

NATURE OF REUSE: _____

LOCAL FIRE JURISDICTION APPROVAL IS REQUIRED PRIOR TO REUSING TANK FOR ABOVEGROUND STORAGE.

SECTION II - TANK CLOSURE IN-PLACE

NAME OF COMPANY CLEANING TANK: _____

METHOD OF CLEANING TANK: _____

NAME OF COMPANY HAULING RINSATE: _____

COMPANY'S DHS HAZARDOUS WASTE HAULER'S LICENSE NUMBER: _____

WHAT INERT SOLID WILL BE USED TO FILL THE CLEANED IN-PLACE TANK? _____

QUANTITY IN CUBIC YARDS: _____

SECTION III - TANK TEMPORARY CLOSURE

NAME OF COMPANY CLEANING TANK: _____

METHOD OF CLEANING TANK: _____

COMPANY'S DHS HAZARDOUS WASTE HAULER'S LICENSE NUMBER: _____

APPLICANT'S SIGNATURE: _____ DATE: _____

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS - FACILITY

(one page per site) Page ____ of ____

TYPE OF ACTION (Check one item only) ☐ 1. NEW SITE PERMIT ☐ 3. RENEWAL PERMIT ☐ 4. AMENDED PERMIT ☐ 5.CHANGE OF INFORMATION specify change (local use only) _____ ☐ 6.TEMPORARY SITE CLOSURE ☐ 7.PERMANENTLY CLOSED SITE ☒ 8. TANK REMOVED 400

I. FACILITY / SITE INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3: Arcata Division Sawmill

FACILITY ID#: 1

NEAREST CROSS STREET: 401

BUSINESS TYPE: ☐ 1. GAS STATION ☐ 3. FARM ☒ 5. COMMERCIAL ☐ 2. DISTRIBUTOR ☐ 4. PROCESSOR ☐ 6. OTHER 403

FACILITY OWNER TYPE: ☒ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 3. PARTNERSHIP ☐ 4. LOCAL AGENCY/DISTRICT* ☐ 5. COUNTY AGENCY* ☐ 6. STATE AGENCY* ☐ 7. FEDERAL AGENCY* 402

TOTAL NUMBER OF TANKS REMAINING AT SITE: 0 404

Is facility on Indian Reservation or trustlands? ☐ Yes ☒ No 405

*If owner of UST is a public agency: name of supervisor of division, section or office which operates the UST (This is the contact person for the tank records.) 406

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME: Sierra Pacific Industries, Inc. 407

PHONE: 530-378-8000 408

MAILING OR STREET ADDRESS: P.O. Box 496028 409

CITY: Redding 410

STATE: CA 411

ZIP CODE: 96049-6028 412

PROPERTY OWNER TYPE: ☒ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 3. PARTNERSHIP ☐ 4. LOCAL AGENCY / DISTRICT ☐ 5. COUNTY AGENCY ☐ 6. STATE AGENCY ☐ 7. FEDERAL AGENCY 413

III. TANK OWNER INFORMATION

TANK OWNER NAME: Sierra Pacific Industries 414

PHONE: 530-378-8000 415

MAILING OR STREET ADDRESS: P.O. Box 496028 416

CITY: Redding 417

STATE: CA 418

ZIP CODE: 96049-6028 419

TANK OWNER TYPE: ☒ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 3. PARTNERSHIP ☐ 4. LOCAL AGENCY / DISTRICT ☐ 5. COUNTY AGENCY ☐ 6. STATE AGENCY ☐ 7. FEDERAL AGENCY 420

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44- Call (916) 322-9669 if questions arise 421

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(s): ☐ 1. SELF-INSURED ☐ 2. GUARANTEE ☐ 3. INSURANCE ☐ 4. SURETY BOND ☐ 5. LETTER OF CREDIT ☐ 6. EXEMPTION ☐ 7. STATE FUND ☐ 8. STATE FUND & CFO LETTER ☐ 9. STATE FUND & CD ☐ 10. LOCAL GOVT MECHANISM ☐ 99. OTHER: NA 422

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check one box to indicate which address should be used for legal notifications and mailing. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked. ☐ 1. FACILITY ☒ 2. PROPERTY OWNER ☐ 3. TANK OWNER 423

VII. APPLICANT SIGNATURE

Certification – I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF APPLICANT: Gordie V Amos

DATE: 4/14/03 424

PHONE: 443-3111 425

NAME OF APPLICANT (print): Gordie V Amos 426

TITLE OF APPLICANT: Plant Manager 427

STATE UST FACILITY NUMBER (For local use only) 428

1998 UPGRADE CERTIFICATE NUMBER (For local use only) 429

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS – TANK PAGE 1

(two pages per tank)

Page ___ of ___

TYPE OF ACTION (Check one item only) ☐ 1 NEW SITE PERMIT ☐ 4 AMENDED PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY SITE CLOSURE ☐ 7 PERMANENTLY CLOSED ON SITE ☐ 3 RENEWAL PERMIT (Specify reason – for local use only) (Specify reason – for local use only) ☒ 8 TANK REMOVED 430

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Arcata Division Sawmill | J | FACILITY ID: | 1

LOCATION WITHIN SITE (Optional) Northwest of Truk Shop 431

I. TANK DESCRIPTION (A scaled plot plan with the location of the UST system including buildings and landmarks shall be submitted to the local agency.)

TANK ID # 432	TANK MANUFACTURER 433	COMPARTMENTALIZED TANK ☐ Yes ☒ No 434
	Unknown	If "Yes", complete one page for each compartment.
DATE INSTALLED (YEAR/MO) 435	TANK CAPACITY IN GALLONS 436	NUMBER OF COMPARTMENTS 437
	500	1

ADDITIONAL DESCRIPTION (For local use only) 438

II. TANK CONTENTS

TANK USE 439
☐ 1. MOTOR VEHICLE FUEL (If marked complete Petroleum Type)
☐ 2. NON-FUEL PETROLEUM
☐ 3. CHEMICAL PRODUCT
☒ 4. HAZARDOUS WASTE (Includes Used Oil)
☐ 95. UNKNOWN

PETROLEUM TYPE 440
☐ 1a. REGULAR UNLEADED ☐ 2. LEADED ☐ 5. JET FUEL
☐ 1b. PREMIUM UNLEADED ☐ 3. DIESEL ☐ 6. AVIATION FUEL
☐ 1c. MIDGRADE UNLEADED ☐ 4. GASOHOL ☒ 99. OTHER

COMMON NAME (from Hazardous Materials Inventory page) 441: Used Oil
CAS# (from Hazardous Materials Inventory page) 442

III. TANK CONSTRUCTION

TYPE OF TANK (Check one item only) ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER ☐ 4. SIGNLE WALL IN VAULT ☐ 5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM ☐ 95. UNKNOWN ☐ 99. OTHER 443

TANK MATERIAL – primary tank (Check one item only) ☒ 1. BARE STEEL ☐ 2. STAINLESS STEEL ☐ 3. FIBERGLASS / PLASTIC ☐ 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP) ☐ 5. CONCRETE ☐ 8. FRP COMPTIBLE W/100% METHANOL ☐ 95. UNKNOWN ☐ 99. OTHER 444

TANK MATERIAL – secondary tank (Check one item only) NA ☐ 1. BARE STEEL ☐ 2. STAINLESS STEEL ☐ 3. FIBERGLASS / PLASTIC ☐ 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP) ☐ 5. CONCRETE ☐ 8. FRP COMPTIBLE W/100% METHANOL ☐ 10. COATED STEEL ☐ 95. UNKNOWN ☐ 99. OTHER 445

TANK INTERIOR LINING OR COATING (Check one item only) ☐ 1. RUBBER LINED ☐ 2 ALKYD LINING ☐ 3. EPOXY LINING ☐ 4 PHENOLIC LINING ☐ 5. GLASS LINING ☒ 6 UNLINED ☐ 95. UNKNOWN ☐ 99 OTHER 446 DATE INSTALLED 447 (For local use only)

OTHER CORROSION PROTECTION IF APPLICABLE (Check one item only) ☐ 1 MANUFACTURED CATHODIC PROTECTION ☐ 2 SACRIFICIAL ANODE ☐ 3 FIBERGLASS REINFORCED PLASTIC ☐ 4 IMPRESSED CURRENT ☒ 95 UNKNOWN ☐ 99 OTHER 448 DATE INSTALLED 449 (For local use only)

SPILL AND OVERFILL (Check all that apply) NA YEAR INSTALLED 450 TYPE (local use only) 451
☐ 1 SPILL CONTAINMENT
☐ 2 DROP TUBE
☐ 3 STRIKER PLATE

OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED 452 NA
☐ 1 ALARM ☐ 3 FILL TUBE SHUT OFF VALVE
☐ 2 BALL FLOAT ☐ 4 EXEMPT

IV. TANK LEAK DETECTION (A description of the monitoring program shall be submitted to the local agency.)

IF SINGLE WALL TANK (Check all that apply) 453
☐ 1 VISUAL (EXPOSED PORTION ONLY)
☐ 2 AUTOMATIC TANK GAUGING (ATG)
☐ 3 CONTINUOUS ATG
☐ 4 STATISTICAL INVENTORY RECONCILIATION (SIR) BIENNIAL TANK TESTING
☐ 5 MANUAL TANK GAUGING (MTG)
☐ 6 VADOSE ZONE
☐ 7 GROUNDWATER
☐ 8 TANK TESTING
☒ 99 OTHER

IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only) 454
☐ 1 VISUAL (SINGLE WALL IN VAULT ONLY)
☐ 2 CONTINUOUS INTERSTITIAL MONITORING
☐ 3 MANUAL MONITORING

IV. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

ESTIMATED DATE LAST USED (YR/MO/DAY) 455	ESTIMATED QUANTITY OF SUBSTANCE REMAINING 456	TANK FILLED WITH INERT MATERIAL? 457
	0 gallons	☐ Yes ☒ No

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS – TANK PAGE 2

VI. PIPING CONSTRUCTION (Check all that apply)

Page __ of __

UNDERGROUND PIPING None		ABOVEGROUND PIPING None	
SYSTEM TYPE ☐ 1. PRESSURE ☐ 2. SUCTION ☐ 3. GRAVITY NA 458		☐ 1. PRESSURE ☐ 2. SUCTION ☐ 3. GRAVITY NA 459	
CONSTRUCTION ☐ 1. SINGLE WALL ☐ 3. LINED TRENCH ☐ 99. OTHER 460		☐ 1. SINGLE WALL ☐ 95. UNKNOWN 462	
MANUFACTURER ☐ 2. DOUBLE WALL ☐ 95. UNKNOWN		☐ 2. DOUBLE WALL ☐ 99. OTHER	
MANUFACTURER NA 461		MANUFACTURER NA 463	
☐ 1. BARE STEEL ☐ 6. FRP COMPATIBLE w/100% METHANOL		☐ 1. BARE STEEL ☐ 6. FRP COMPATIBLE W/100% METHANOL	
☐ 2. STAINLESS STEEL ☐ 7. GALVANIZED STEEL ☐ Unknown		☐ 2. STAINLESS STEEL ☐ 7. GALVANIZED STEEL	
☐ 3. PLASTIC COMPATIBLE W/ CONTENTS ☐ 99. Other		☐ 3. PLASTIC COMPATIBLE W/ CONTENTS ☐ 8. FLEXIBLE (HDPE) ☐ 99. OTHER	
☐ 4. FIBERGLASS ☐ 8. FLEXIBLE (HDPE)		☐ 4. FIBERGLASS ☐ 9. CATHODIC PROTECTION	
☐ 5. STEEL W/COATING ☐ 9. CATHODIC PROTECTION 464		☐ 5. STEEL W/COATING ☐ 95. UNKNOWN 465	

VII. PIPING LEAK DETECTION (Check all that apply) (A description of the monitoring program shall be submitted to the local agency.)

UNDERGROUND PIPING	ABOVEGROUND PIPING
SINGLE WALL PIPING 466	**SINGLE WALL PIPING** 467
PRESSURIZED PIPING (Check all that apply):	PRESSURIZED PIPING (Check all that apply):
☐ 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.	☐ 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.
☐ 2. MONTHLY 0.2 GPH TEST	☐ 2. MONTHLY 0.2 GPH TEST
☐ 3. ANNUAL INTEGRITY TEST (0.1GPH)	☐ 3. ANNUAL INTEGRITY TEST (0.1GPH)
	☐ 4. DAILY VISUAL CHECK
CONVENTIONAL SUCTION SYSTEMS	CONVENTIONAL SUCTION SYSTEMS (Check all that apply)
☐ 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH)	☐ 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM
	☐ 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)
SAFE SUCTION SYSTEMS (NO VALUES IN BELOW GROUNDPIPING):	SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):
☐ 7. SELF MONITORING	☐ 7. SELF MONITORING
GRAVITY FLOW	GRAVITY FLOW (Check all that apply):
☐ 9. BIENNIAL INTEGRITY TEST (0.1 GPH)	☐ 8. DAILY VISUAL MONITORING
	☐ 9. BIENNIAL INTEGRITY TEST (0.1 GPH)
SECONDARILY CONTAINED PIPING	**SECONDARILY CONTAINED PIPING**
PRESSURIZED PIPING (Check all that apply):	PRESSURIZED PIPING (Check all that apply):
10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)	10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)
☐ a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS	☐ a AUTO PUMP SHUT OFF WHEN A LEAK OCCURS
☐ b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION	☐ b AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION
☐ c. NO AUTO PUMP SHUT OFF	☐ c NO AUTO PUMP SHUT OFF
☐ 11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHUT OFF OR RESTRICTION	☐ 11. AUTOMATIC LEAK DETECTOR
☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)	☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)
SUCTION/GRAVITY SYSTEM	SUCTION/GRAVITY SYSTEM
☐ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS	☐ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS
EMERGENCY GENERATORS ONLY (Check all that apply)	**EMERGENCY GENERATORS ONLY** (Check all that apply)
☐ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS	☐ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS
☐ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR RESTRICTION	☐ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)
☐ 16. ANNUAL INTEGRITY TEST (0.1 GPH)	☐ 16. ANNUAL INTEGRITY TEST (0.1 GPH)
☐ 17. DAILY VISUAL CHECK	☐ 17. DAILY VISUAL CHECK

VIII. DISPENSER CONTAINMENT NA

DISPENSER CONTAINMENT
DATE INSTALLED 468

☐ 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE
☐ 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS
☐ 3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS
☐ 4. DAILY VISUAL CHECK
☐ 5. TRENCH LINER / MONITORING
☐ 6. NONE 469

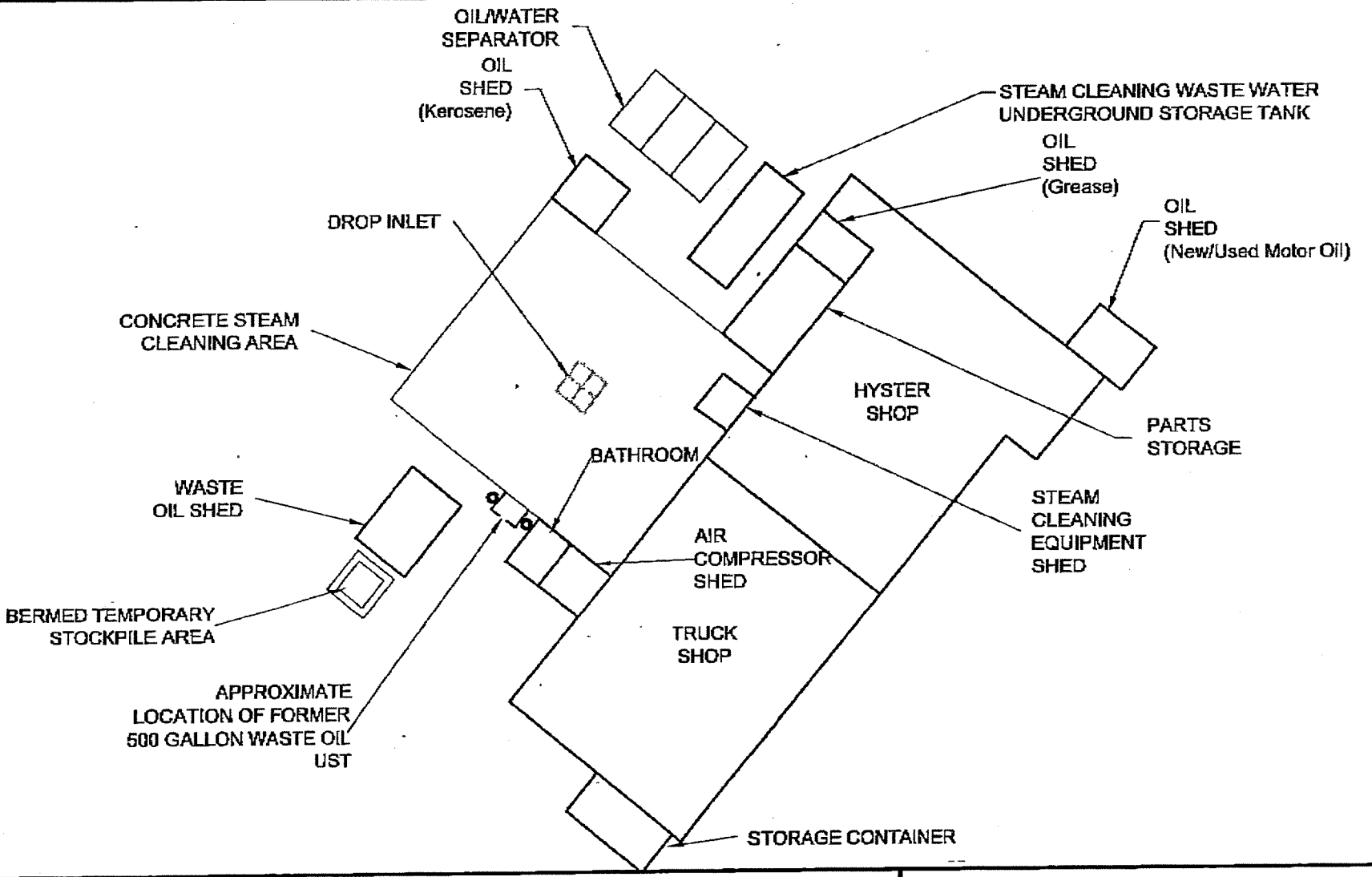
IX. OWNER/OPERATOR SIGNATURE

I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR	DATE 470
Gordie V Amos	4/14/03
NAME OF OWNER/OPRATOR (print) 471	TITLE OF OWNER/OPERATOR 472
Gordie V Amos	Plant Manager

Permit Number (For local use only) 473	Permit Approved (For local use only) 474	Permit Expiration Date (For local use only) 475

H:\Projects\030229-SPI\Waste Oil UST\MFG UST SITE PLAN.dwg PLOT SCALE 1:1



LEGEND

o APPROXIMATE LOCATION OF PROPOSED SOIL SAMPLES

N

0 15 30

APPROXIMATE SCALE

SITE PLAN

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229.8	By: J. Triolo	**Figure 1**
Date: 4/11/03	Checked:	

MFG, Inc.
consulting scientists and engineers

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

STATE OF CALIFORNIA -- THE RESOURCES AGENCY GRAY DAVIS, *GOVERNOR*

CALIFORNIA COASTAL COMMISSION
NORTH COAST DISTRICT OFFICE
710 E STREET • SUITE 200
EUREKA, CA 95501-1865
VOICE (707) 445-7833
FACSIMILE (707) 445-7877

MAILING ADDRESS:
P. O. BOX 4908
EUREKA, CA 95502-4908

April 18, 2003

Orrin Plocher, MFG, Inc.
1165 G Street, Suite E
Arcata, CA 95521-5817

SUBJECT: Waste Oil Underground Storage Tank Removal, Arcata Division Sawmill

Dear Mr. Plocher:

Commission staff has determined that the proposed 500-gallon underground storage tank removal adjacent to the truck shop at the Arcata Division Sawmill located at 2293 Samoa Road, Arcata, Humboldt County is exempt from the need for a coastal development permit.

The proposed underground storage tank (UST) removal is described in your attached letter dated April 18, 2003 that includes a project description, UST removal permit from the Humboldt County Division of Environmental Health, and a site plan. The proposed UST removal involves temporarily stockpiling up to 20 cubic yards of excavated material in an area noted on the attached site plan that would be constructed with a berm and plastic sheeting at least 10-mil in thickness and the soil would be characterized and disposed of in accordance with applicable regulations. The UST removal would take less than one day and would be removed following the steps outlined in the attached letter.

Section 30610(d) of the Coastal Act exempts from the permit requirements of the Act certain kinds of repair or maintenance to existing structures. The proposed development constitutes a repair or maintenance activity that would not result in an addition to or enlargement or expansion of the object of such activities pursuant to Section 30610(d), and does not utilize extraordinary methods of repair or maintenance that the Commission has determined by regulation to involve a risk of substantial adverse environmental impact. Therefore, the project is exempt from the permit requirements of the Act and no coastal development is required.

Only the repair and maintenance project described above and in the attached project description information is exempt from the permit requirements of the Coastal Act. Any change in the project may cause the project to lose its exempt status. This certification is based on information you have provided. If, at a later date, this information is found to be incorrect or incomplete, this letter will be come invalid, and any development occurring at that time must cease until a coastal development permit is obtained.

Sincerely,

T. S. Tauber

Tiffany S. Tauber
Coastal Planner

cc: Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA 95501

MFG, Inc.
a Tetra Tech Company
1165 G Street, Suite E
Arcata, CA 95521-5817
707/826-8430
Fax: 707/826-8437

consulting
scientists and
engineers

April 18, 2003
MFG Project No. 030229

Ms. Tiffany Tauber
California Coastal Commission
710 E Street, Suite 200
Eureka, California 95501

Subject: **Waste Oil Underground Storage Tank Removal**
Arcata Division Sawmill
2293 Samoa Road
Arcata, California

Dear Ms. Tauber:

The purpose of this letter is to provide you with additional information that you have requested regarding the removal of the above referenced underground storage tank. Attached is the approved tank removal permit from the Humboldt County Health and Human Services Division of Environmental Health.

The removal of the 500-gallon underground storage tank will not be preformed in the rain. The duration of the job is less than one day. All soil removed for the purpose of removal of the underground storage tank will be temporarily stockpiled in the area noted on the site plan. The total excavated and stockpiled material will not exceed 20 cubic yards, which is consistent with Humboldt County guidelines for tank removal. The temporary soil stockpile will be constructed with a berm and plastic sheeting at least 10-mil in thickness. Following placement of the soil a plastic sheet at least 10-mil in thickness will cover the soil to prevent any storm water contact or runoff. Stockpiled soils will be characterized and disposed of in accordance with applicable regulations. The tank removal process will include the following steps:

- The concrete surface over the tank will be removed and handled as construction debris.
- The tank (anticipated to be approximately 4 feet in diameter by 5.5 feet long) will be exposed by removing soil from the top and one side of the tank.
- The tank will be removed and place on 10-mil plastic and will be wrapped to prevent contact with storm water runoff.
- The tank will be transported to ECI, a tank cleaning company in Richmond, California within 2-days of removal from the ground and will be used for scrap metal by Levin Metals also of Richmond, California.
- If water is present in the tank pit, some water may be pumped into temporary above ground tanks, which will be placed on a concrete slab near the tank pit and sealed after filling.
- Soil samples and groundwater samples will be collected from the tank pit.
- Based on the analysis of the water samples the water in the temporary above ground tanks will be disposed of in accordance with applicable regulations.
- If there is obvious petroleum-impacted soil in the tank pit above the water level, a limited amount of additional soil may be excavated and stored in the temporary stockpile as described above.
- The tank pit will be back filled with clean fill material purchased from offsite.

Please contact either of us if you require further information.

Sincerely yours,

MFG, INC.

Orrin Plocher
Project Geologist
707-826-8430

Stan Thiesen
For
Edward P. Conti, C.E.G., C.HG.
Senior Consulting Geologist
415-595-7110

Attachment Humboldt County Tank Removal Permit

Cc: Bob Ellery, Sierra Pacific Industries
Gordie Amos, Sierra Pacific Industries

APPENDIX F

Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO — HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☐ NO

REPORT DATE: 04 / 25 / 03 — CASE #:

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
SIGNED _____ DATE _____

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: J. W. Chancey — PHONE: (707) 443-3111 — SIGNATURE: J. W. Chancey

REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____ — COMPANY OR AGENCY NAME: Sierra Pacific Industries

ADDRESS: 2593 New Navy Base Road (STREET) — Arcata (CITY) — CA (STATE) — 95518 (ZIP)

RESPONSIBLE PARTY

NAME: Sierra Pacific Industries ☐ UNKNOWN — CONTACT PERSON: Gordie Amos — PHONE: (707) 443-3111

ADDRESS: 2593 New Navy Base Road (STREET) — Arcata (CITY) — CA. (STATE) — 95518 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Sierra Pacific Industries — OPERATOR: A. A. Emerson — PHONE: (707) 443-3111

ADDRESS: 2593 New Navy Base Road (STREET) — Arcata (CITY) — CA (STATE) — 95518 (ZIP) — COUNTY: Humboldt

CROSS STREET: 1/2 mile North of Stamps Road, Manila CA.

IMPLEMENTING AGENCIES

LOCAL AGENCY — AGENCY NAME: Humboldt County Environmental Health — CONTACT PERSON: Dean Adams — PHONE: (707) 445-6215

REGIONAL BOARD: North Coast Region — CONTACT PERSON: Dean Prat — PHONE: (707) 576-2220

SUBSTANCES INVOLVED

(1) NAME: Waste Oil — QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN

(2) _____ ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 04 / 22 / 03 — HOW DISCOVERED: ☐ TANK TEST ☒ TANK REMOVAL ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ OTHER _____

DATE DISCHARGE BEGAN: M M D D Y Y ☒ UNKNOWN

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE 04 / 22 / 03

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☒ REMOVE CONTENTS ☒ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☐ OTHER _____

SOURCE/CAUSE

SOURCE OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER

CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☒ CORROSION ☐ UNKNOWN ☐ OTHER _____

CASE TYPE

CHECK ONE ONLY
☐ UNDETERMINED ☒ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY
☐ NO ACTION TAKEN ☒ LEAK BEING CONFIRMED ☐ REMEDIATION PLAN
☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY)
☐ POLLUTION CHARACTERIZATION ☐ POST CLEANUP MONITORING IN PROGRESS ☐ CLEANUP UNDERWAY

REMEDIAL ACTION

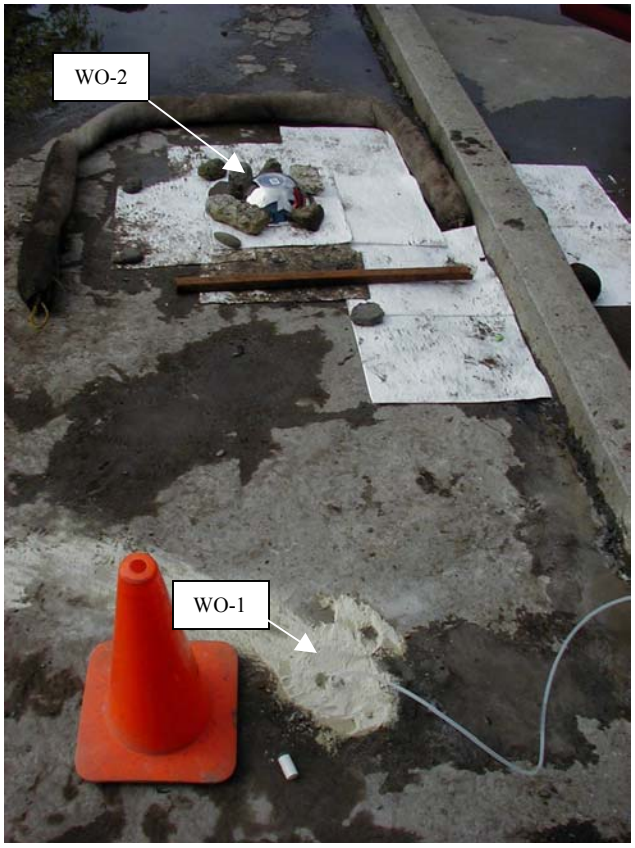
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ CONTAINMENT BARRIER (CB) ☐ VACUUM EXTRACT (VE)
☐ EXCAVATE & DISPOSE (ED) ☐ EXCAVATE & TREAT (ET) ☐ NO ACTION REQUIRED (NA) ☐ OTHER (OT) _____
☐ REMOVE FREE PRODUCT (FP) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ TREATMENT AT HOOKUP (HU)
☐ ENHANCED BIO DEGRADATION (IT) ☐ REPLACE SUPPLY (RS) ☐ VENT SOIL (VS)

COMMENTS

Excavated & removed Tank. Spoils put on plastic and covered w/ plastic. Stock Piles for analysis to determine if disposal need, by whom and Concentrations.

APPENDIX G

Photographs



Picture looking northwest showing borings WO-1 and WO-2.


Removal of the Waste Oil Tank. UST was discovered crushed in-place.

55 gallon and 30 gallon drums removed during tank removal.

Waste Oil UST excavation.

Groundwater in UST excavation encountered at approximately 5 feet below ground level.

Storage containers for excation purge water.

Picture looking southwest showing location of the bermed soil stockpile.

Picture looking east showing the UST prepared for transportation.

Picture looking southeast showing excavation with clean backfill material.

APPENDIX H

Laboratory Reports and Chain-of-Custody Records
for Confirmation Soil and Groundwater Samples from the UST Excavation

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

08 May 2003

MFG, Inc - Arcata
Attn: Orrin Plocher
1165 G. Street, Suite E
Arcata, CA 95521

RE: SPI Arcata Sawmill

Work Order: A304575

Enclosed are the results of analyses for samples received by the laboratory on 04/24/03 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri Speaks

Sheri L. Speaks
Project Manager

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

CHEMICAL EXAMINATION REPORT

MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Tank Pit Water	A304575-01	Water	04/22/03 13:30	04/24/03 15:40
NW-1-6'	A304575-02	Soil	04/22/03 12:58	04/24/03 15:40
SE-1-6'	A304575-03	Soil	04/22/03 12:53	04/24/03 15:40
Tank Pit Water	A304575-04	Water	04/22/03 13:30	04/24/03 15:40
NE-1-4'	A304575-05	Soil	04/22/03 13:05	04/24/03 15:40
SW-1-4'	A304575-06	Soil	04/22/03 13:08	04/24/03 15:40

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
Tank Pit Water (A304575-01)			**Sample Type: Water**			**Sampled: 04/22/03 13:30**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AD33007	04/30/03	05/01/03	1	ND mg/l		0.010	
Chromium	"	"	"	"	"	ND "		0.050	
Nickel	"	"	"	"	"	ND "		0.10	
Lead	"	"	"	"	"	ND "		0.050	
Zinc	"	"	"	"	"	ND "		0.10	
Conventional Chemistry Parameters by APHA/EPA Methods									
Oil & Grease (HEM-SG)	EPA 1664	AE30610	05/02/03	05/06/03	1	**24 mg/l**		**5.0**	
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	EPA 8015DRO	AD33012	04/30/03	05/05/03	1.087	**5600 ug/l**		**54**	
TPH as Motor Oil	"	"	"	"	"	**13000 "**		**110**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*27.8 %*	*25-132*		
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	EPA 8015GRO	AE30112	04/28/03	04/30/03	1	**370 ug/l**		**50**	G-1
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*100 %*	*48-155*		
NW-1-6' (A304575-02)			**Sample Type: Soil**			**Sampled: 04/22/03 12:58**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AD32906	04/29/03	04/30/03	1	ND mg/kg		1.0	
Chromium	"	"	"	"	"	**14 "**		**5.0**	
Nickel	"	"	"	"	"	**19 "**		**10**	
Lead	"	"	"	"	"	**26 "**		**5.0**	
Zinc	"	"	"	"	"	**75 "**		**10**	

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Tetra Tech/MFG, Inc.

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
NW-1-6' (A304575-02)			**Sample Type: Soil**			**Sampled: 04/22/03 12:58**		
Volatile Organic Compounds by EPA Method 8260B								**R-06**
Acetone	EPA 8260B	AE30601	05/02/03	05/02/03	173.2	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	
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	
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	

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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1165 G. Street, Suite E
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Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
NW-1-6' (A304575-02)			**Sample Type: Soil**			**Sampled: 04/22/03 12:58**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-06**
2,2-Dichloropropane	EPA 8260B	"	"	05/02/03	"	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	
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	"	"	"	"	"	**0.23 "**	**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	

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

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1165 G. Street, Suite E
Arcata, CA 95521
Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
NW-1-6' (A304575-02)			**Sample Type: Soil**			**Sampled: 04/22/03 12:58**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									**R-06**
Xylenes (total)	EPA 8260B	"	"	05/02/03	"	ND "		0.22	
Surrogate: Dibromofluoromethane	"	"	"	"		*78.9 %*	*70-130*		
Surrogate: Toluene-d8	"	"	"	"		*82.1 %*	*70-130*		
Surrogate: Bromofluorobenzene	"	"	"	"		*94.1 %*	*70-130*		
Conventional Chemistry Parameters by APHA/EPA Methods									
Oil & Grease (HEM-SG)	EPA 9071B	AE30118	04/30/03	05/01/03	1	**4000 mg/kg**		**50**	
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	EPA 8015DRO	AD33011	04/30/03	05/01/03	10	**1900 mg/kg**		**10**	
TPH as Motor Oil	"	"	"	"	"	**2800 "**		**20**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*182 %*	*25-132*		*A-01*
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	EPA 8015GRO	AE30508	04/25/03	05/05/03	1	**170 mg/kg**		**1.0**	G-1
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*115 %*	*60.1-159*		
SE-1-6' (A304575-03)			**Sample Type: Soil**			**Sampled: 04/22/03 12:53**			
Metals by EPA 6000/7000 Series Methods									
Cadmium	EPA 6010	AD32906	04/29/03	05/01/03	1	ND mg/kg		1.0	
Chromium	"	"	"	"	"	**29 "**		**5.0**	
Nickel	"	"	"	"	"	**39 "**		**10**	
Lead	"	"	"	"	"	**9.3 "**		**5.0**	
Zinc	"	"	"	"	"	**30 "**		**10**	

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Sheri Speaks

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Project Manager

5/8/03

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

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MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SE-1-6' (A304575-03)			**Sample Type: Soil**			**Sampled: 04/22/03 12:53**		
Volatile Organic Compounds by EPA Method 8260B								
Acetone	EPA 8260B	AD32904	04/27/03	04/29/03	1	**0.13 mg/kg**	**0.020**	
Benzene	"	"	"	"	"	ND "	0.0050	
Bromobenzene	"	"	"	"	"	ND "	0.0050	
Bromochloromethane	"	"	"	"	"	ND "	0.0050	
Bromodichloromethane	"	"	"	"	"	ND "	0.0050	
Bromoform	"	"	"	"	"	ND "	0.0050	
Bromomethane	"	"	"	"	"	ND "	0.0050	
n-Butylbenzene	"	"	"	"	"	ND "	0.0050	
sec-Butylbenzene	"	"	"	"	"	ND "	0.0050	
tert-Butylbenzene	"	"	"	"	"	ND "	0.0050	
Carbon tetrachloride	"	"	"	"	"	ND "	0.0050	
Chlorobenzene	"	"	"	"	"	ND "	0.0050	
Chloroethane	"	"	"	"	"	ND "	0.0050	
Chloroform	"	"	"	"	"	ND "	0.0050	
Chloromethane	"	"	"	"	"	ND "	0.0050	
2-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
4-Chlorotoluene	"	"	"	"	"	ND "	0.0050	
Dibromochloromethane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.0050	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.0050	
Dibromomethane	"	"	"	"	"	ND "	0.0050	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.0050	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.0050	
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	

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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Arcata, CA 95521
Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SE-1-6' (A304575-03)			**Sample Type: Soil**			**Sampled: 04/22/03 12:53**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								
2,2-Dichloropropane	EPA 8260B	"	"	04/29/03	"	ND "	0.0050	
1,1-Dichloropropene	"	"	"	"	"	ND "	0.0050	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.0050	
Ethylbenzene	"	"	"	"	"	ND "	0.0050	
Hexachlorobutadiene	"	"	"	"	"	ND "	0.0050	
Isopropylbenzene	"	"	"	"	"	ND "	0.0050	
p-Isopropyltoluene	"	"	"	"	"	ND "	0.0050	
Methyl ethyl ketone	"	"	"	"	"	**0.031 "**	**0.015**	
Methyl isobutyl ketone	"	"	"	"	"	ND "	0.010	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.0050	
Methylene chloride	"	"	"	"	"	ND "	0.0050	
Naphthalene	"	"	"	"	"	ND "	0.0050	
n-Propylbenzene	"	"	"	"	"	ND "	0.0050	
Styrene	"	"	"	"	"	ND "	0.0050	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.0050	
Tetrachloroethene	"	"	"	"	"	ND "	0.0050	
Toluene	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	0.0050	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.0050	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.0050	
Trichloroethene	"	"	"	"	"	ND "	0.0050	
Trichlorofluoromethane	"	"	"	"	"	ND "	0.0050	
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.0050	
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.0050	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.0050	
Vinyl chloride	"	"	"	"	"	ND "	0.0050	
m,p-Xylene	"	"	"	"	"	ND "	0.0050	
o-Xylene	"	"	"	"	"	ND "	0.0050	

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Project Manager

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

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
SE-1-6' (A304575-03)			**Sample Type: Soil**			**Sampled: 04/22/03 12:53**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									
Xylenes (total)	EPA 8260B	"	"	04/29/03	"	ND "		0.0050	
Surrogate: Dibromofluoromethane	"	"	"	"		*106 %*	*70-130*		
Surrogate: Toluene-d8	"	"	"	"		*92.0 %*	*70-130*		
Surrogate: Bromofluorobenzene	"	"	"	"		*87.2 %*	*70-130*		
Conventional Chemistry Parameters by APHA/EPA Methods									
Oil & Grease (HEM-SG)	EPA 9071B	AE30118	04/30/03	05/01/03	1	**540 mg/kg**		**50**	
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	EPA 8015DRO	AD33011	04/30/03	05/01/03	1	**74 mg/kg**		**1.0**	
TPH as Motor Oil	"	"	"	"	"	**250 "**		**2.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*149 %*	*25-132*		*A-01*
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	EPA 8015GRO	AE30508	05/02/03	05/02/03	1	**14 mg/kg**		**1.0**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*107 %*	*60.1-159*		
Tank Pit Water (A304575-04)			**Sample Type: Water**			**Sampled: 04/22/03 13:30**			
Volatile Organic Compounds by EPA Method 8260B									**R-04**
Acetone	EPA 8260B	AD32919	04/28/03	04/29/03	5	ND ug/l		25	
Benzene	"	"	"	"	"	ND "		1.5	
Bromobenzene	"	"	"	"	"	ND "		2.5	
Bromochloromethane	"	"	"	"	"	ND "		2.5	
Bromodichloromethane	"	"	"	"	"	ND "		2.5	
Bromoform	"	"	"	"	"	ND "		2.5	
Bromomethane	"	"	"	"	"	ND "		2.5	
n-Butylbenzene	"	"	"	"	"	ND "		2.5	
sec-Butylbenzene	"	"	"	"	"	ND "		2.5	
tert-Butylbenzene	"	"	"	"	"	ND "		2.5	
Carbon tetrachloride	"	"	"	"	"	ND "		2.5	
Chlorobenzene	"	"	"	"	"	ND "		2.5	
Chloroethane	"	"	"	"	"	ND "		2.5	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Tank Pit Water (A304575-04)			**Sample Type: Water**			**Sampled: 04/22/03 13:30**		
Volatile Organic Compounds by EPA Method 8260B (cont'd)								**R-04**
Chloroform	EPA 8260B	"	"	04/29/03	"	ND "	2.5	
Chloromethane	"	"	"	"	"	ND "	2.5	
2-Chlorotoluene	"	"	"	"	"	ND "	2.5	
4-Chlorotoluene	"	"	"	"	"	ND "	2.5	
Dibromochloromethane	"	"	"	"	"	ND "	2.5	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	2.5	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	2.5	
Dibromomethane	"	"	"	"	"	ND "	2.5	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	2.5	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	2.5	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	2.5	
Dichlorodifluoromethane	"	"	"	"	"	ND "	2.5	
1,1-Dichloroethane	"	"	"	"	"	ND "	2.5	
1,2-Dichloroethane	"	"	"	"	"	ND "	2.5	
1,1-Dichloroethene	"	"	"	"	"	ND "	1.5	
cis-1,2-Dichloroethene	"	"	"	"	"	ND "	2.5	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	2.5	
1,2-Dichloropropane	"	"	"	"	"	ND "	2.5	
1,3-Dichloropropane	"	"	"	"	"	ND "	2.5	
2,2-Dichloropropane	"	"	"	"	"	ND "	2.5	
1,1-Dichloropropene	"	"	"	"	"	ND "	2.5	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	2.5	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	2.5	
Ethylbenzene	"	"	"	"	"	ND "	2.5	
Hexachlorobutadiene	"	"	"	"	"	ND "	2.5	
Isopropylbenzene	"	"	"	"	"	ND "	2.5	
p-Isopropyltoluene	"	"	"	"	"	ND "	2.5	
Methyl ethyl ketone	"	"	"	"	"	ND "	5.0	
Methyl isobutyl ketone	"	"	"	"	"	ND "	5.0	
Methyl tert-butyl ether	"	"	"	"	"	ND "	2.5	
Methylene chloride	"	"	"	"	"	ND "	2.5	
Naphthalene	"	"	"	"	"	ND "	2.5	

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Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
Tank Pit Water (A304575-04)			**Sample Type: Water**			**Sampled: 04/22/03 13:30**			
Volatile Organic Compounds by EPA Method 8260B (cont'd)									**R-04**
n-Propylbenzene	EPA 8260B	"	"	04/29/03	"	ND "		2.5	
Styrene	"	"	"	"	"	ND "		2.5	
1,1,1,2-Tetrachloroethane	"	"	"	"	"	ND "		2.5	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "		2.5	
Tetrachloroethene	"	"	"	"	"	ND "		2.5	
Toluene	"	"	"	"	"	ND "		1.5	
1,2,3-Trichlorobenzene	"	"	"	"	"	ND "		2.5	
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "		2.5	
1,1,1-Trichloroethane	"	"	"	"	"	ND "		2.5	
1,1,2-Trichloroethane	"	"	"	"	"	ND "		2.5	
Trichloroethene	"	"	"	"	"	ND "		2.5	
Trichlorofluoromethane	"	"	"	"	"	ND "		2.5	
Trichlorotrifluoroethane	"	"	"	"	"	ND "		2.5	
1,2,3-Trichloropropane	"	"	"	"	"	ND "		2.5	
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "		2.5	
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "		2.5	
Vinyl chloride	"	"	"	"	"	ND "		2.5	
m,p-Xylene	"	"	"	"	"	ND "		2.5	
o-Xylene	"	"	"	"	"	ND "		2.5	
Xylenes (total)	"	"	"	"	"	ND "		2.5	
Surrogate: Dibromofluoromethane	"	"	"	"		*84.8 %*	*70-130*		
Surrogate: Toluene-d8	"	"	"	"		*87.6 %*	*70-130*		
Surrogate: Bromofluorobenzene	"	"	"	"		*79.2 %*	*70-130*		
NE-1-4' (A304575-05)			**Sample Type: Soil**			**Sampled: 04/22/03 13:05**			
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	EPA 8015DRO	AD33011	04/30/03	05/02/03	100	**5000 mg/kg**		**100**	
TPH as Motor Oil	"	"	"	"	"	**1800 "**		**200**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*327 %*	*25-132*		*A-01*

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Tetra Tech/MFG, Inc.

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
NE-1-4' (A304575-05)			**Sample Type: Soil**			**Sampled: 04/22/03 13:05**			
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	EPA 8015GRO	AE30508	04/25/03	05/02/03	1	**980 mg/kg**		**1.0**	G-1
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*116 %*	*60.1-159*		
SW-1-4' (A304575-06)			**Sample Type: Soil**			**Sampled: 04/22/03 13:08**			
TPH as Diesel and Motor Oil by EPA Method 8015 Modified									
TPH as Diesel	EPA 8015DRO	AD33011	04/30/03	05/02/03	100	**2300 mg/kg**		**100**	
TPH as Motor Oil	"	"	"	"	"	**4500 "**		**200**	
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*330 %*	*25-132*		*A-01*
TPH as Gasoline by GCFID/5030									
TPH as Gasoline	EPA 8015GRO	AE30508	04/25/03	05/02/03	1	**650 mg/kg**		**1.0**	G-1
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		*124 %*	*60.1-159*		

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Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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1165 G. Street, Suite E
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Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

spRPDLimit spSoureResult

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD32906 - EPA 3051 Microwave										
Blank (AD32906-BLK1)				Prepared: 04/29/03 Analyzed: 04/30/03						
Cadmium	ND	1.0	mg/kg							
Chromium	ND	5.0	"							
Lead	ND	5.0	"							
Nickel	ND	10	"							
Zinc	ND	10	"							
LCS (AD32906-BS1)				Prepared: 04/29/03 Analyzed: 04/30/03						
Cadmium	21.3	1.0	mg/kg	20.0		106	85-115			
Chromium	20.7	5.0	"	20.0		104	85-115			
Lead	20.2	5.0	"	20.0		101	85-115			
Nickel	20.4	10	"	20.0		102	85-115			
Zinc	22.7	10	"	20.0		114	87.1-126			
LCS Dup (AD32906-BSD1)				Prepared: 04/29/03 Analyzed: 04/30/03						
Cadmium	21.2	1.0	mg/kg	20.0		106	85-115		20	
Chromium	20.6	5.0	"	20.0		103	85-115		20	
Lead	20.1	5.0	"	20.0		100	85-115		20	
Nickel	20.7	10	"	20.0		104	85-115		20	
Zinc	22.1	10	"	20.0		110	87.1-126		20	
Duplicate (AD32906-DUP1)		**Source: A304575-02**		Prepared: 04/29/03 Analyzed: 04/30/03						
Cadmium	ND	1.0	mg/kg		ND				20	
Chromium	15.8	5.0	"		14			12.1	20	
Lead	37.2	5.0	"		26			35.4	20	QM-04
Nickel	20.6	10	"		19			8.08	20	
Zinc	84.1	10	"		75			11.4	20	
Matrix Spike (AD32906-MS1)		**Source: A304575-02**		Prepared: 04/29/03 Analyzed: 04/30/03						
Cadmium	22.0	1.0	mg/kg	20.0	ND	110	70-130			

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Tetra Tech/MFG, Inc.

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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1165 G. Street, Suite E
Arcata, CA 95521
Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD32906 - EPA 3051 Microwave										
Matrix Spike (AD32906-MS1)	**Source: A304575-02**			Prepared: 04/29/03		Analyzed: 04/30/03				
Chromium	44.2	5.0	"	20.0	14	151	70-130			QM-04
Lead	122	5.0	"	20.0	26	480	70-130			QM-04
Nickel	57.3	10	"	20.0	19	192	70-130			QM-04
Zinc	140	10	"	20.0	75	325	70-130			QM-4X
Matrix Spike Dup (AD32906-MSD1)	**Source: A304575-02**			Prepared: 04/29/03		Analyzed: 04/30/03				
Cadmium	20.0	1.0	mg/kg	20.0	ND	100	70-130		20	
Chromium	32.6	5.0	"	20.0	14	93.0	70-130	30.2	20	QM-04
Lead	53.4	5.0	"	20.0	26	137	70-130	78.2	20	QM-04
Nickel	40.1	10	"	20.0	19	106	70-130	35.3	20	QM-04
Zinc	101	10	"	20.0	75	130	70-130	32.4	20	QM-4X
Batch AD33007 - EPA 3015 Microwave										
Blank (AD33007-BLK1)				Prepared: 04/30/03		Analyzed: 05/01/03				
Cadmium	ND	0.010	mg/l							
Chromium	ND	0.050	"							
Lead	ND	0.050	"							
Nickel	ND	0.10	"							
Zinc	ND	0.10	"							
LCS (AD33007-BS1)				Prepared: 04/30/03		Analyzed: 05/01/03				
Cadmium	0.242	0.010	mg/l	0.222		109	85-115			
Chromium	0.251	0.050	"	0.222		113	85-115			
Lead	0.246	0.050	"	0.222		111	85-115			
Nickel	0.242	0.10	"	0.222		109	85-115			
Zinc	0.275	0.10	"	0.222		124	93.4-124			

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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Attn: Orrin Plocher

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD33007 - EPA 3015 Microwave										
LCS Dup (AD33007-BSD1)				Prepared: 04/30/03 Analyzed: 05/01/03						
Cadmium	0.246	0.010	mg/l	0.222		111	85-115		20	
Chromium	0.251	0.050	"	0.222		113	85-115		20	
Lead	0.238	0.050	"	0.222		107	85-115		20	
Nickel	0.245	0.10	"	0.222		110	85-115		20	
Zinc	0.259	0.10	"	0.222		117	93.4-124		20	
Duplicate (AD33007-DUP1)		**Source: A304575-01**		Prepared: 04/30/03 Analyzed: 05/01/03						
Cadmium	ND	0.010	mg/l		ND				20	
Chromium	ND	0.050	"		ND				20	
Lead	ND	0.050	"		ND				20	
Nickel	ND	0.10	"		ND				20	
Zinc	ND	0.10	"		ND				20	
Matrix Spike (AD33007-MS1)		**Source: A304575-01**		Prepared: 04/30/03 Analyzed: 05/01/03						
Cadmium	0.230	0.010	mg/l	0.222	ND	104	70-130			
Chromium	0.243	0.050	"	0.222	ND	108	70-130			
Lead	0.221	0.050	"	0.222	ND	99.5	70-130			
Nickel	0.246	0.10	"	0.222	ND	103	70-130			
Zinc	0.257	0.10	"	0.222	ND	105	70-130			
Matrix Spike Dup (AD33007-MSD1)		**Source: A304575-01**		Prepared: 04/30/03 Analyzed: 05/01/03						
Cadmium	0.230	0.010	mg/l	0.222	ND	104	70-130		20	
Chromium	0.245	0.050	"	0.222	ND	108	70-130		20	
Lead	0.229	0.050	"	0.222	ND	103	70-130		20	
Nickel	0.251	0.10	"	0.222	ND	105	70-130		20	
Zinc	0.277	0.10	"	0.222	ND	114	70-130		20	

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32904 - EPA 5030 Soil MS										
Blank (AD32904-BLK1)				Prepared: 04/27/03 Analyzed: 04/28/03						
Acetone	ND	0.020	mg/kg							
Benzene	ND	0.0050	"							
Bromobenzene	ND	0.0050	"							
Bromochloromethane	ND	0.0050	"							
Bromodichloromethane	ND	0.0050	"							
Bromoform	ND	0.0050	"							
Bromomethane	ND	0.0050	"							
n-Butylbenzene	ND	0.0050	"							
sec-Butylbenzene	ND	0.0050	"							
tert-Butylbenzene	ND	0.0050	"							
Carbon tetrachloride	ND	0.0050	"							
Chlorobenzene	ND	0.0050	"							
Chloroethane	ND	0.0050	"							
Chloroform	ND	0.0050	"							
Chloromethane	ND	0.0050	"							
2-Chlorotoluene	ND	0.0050	"							
4-Chlorotoluene	ND	0.0050	"							
Dibromochloromethane	ND	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Dibromomethane	ND	0.0050	"							
1,2-Dichlorobenzene	ND	0.0050	"							
1,3-Dichlorobenzene	ND	0.0050	"							
1,4-Dichlorobenzene	ND	0.0050	"							
Dichlorodifluoromethane	ND	0.0050	"							
1,1-Dichloroethane	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
1,1-Dichloroethene	ND	0.0050	"							

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

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD32904 - EPA 5030 Soil MS										
Blank (AD32904-BLK1)				Prepared: 04/27/03 Analyzed: 04/28/03						
cis-1,2-Dichloroethene	ND	0.0050	"							
trans-1,2-Dichloroethene	ND	0.0050	"							
1,2-Dichloropropane	ND	0.0050	"							
1,3-Dichloropropane	ND	0.0050	"							
2,2-Dichloropropane	ND	0.0050	"							
1,1-Dichloropropene	ND	0.0050	"							
cis-1,3-Dichloropropene	ND	0.0050	"							
trans-1,3-Dichloropropene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Hexachlorobutadiene	ND	0.0050	"							
Isopropylbenzene	ND	0.0050	"							
p-Isopropyltoluene	ND	0.0050	"							
Methyl ethyl ketone	ND	0.015	"							
Methyl isobutyl ketone	ND	0.010	"							
Methyl tert-butyl ether	ND	0.0050	"							
Methylene chloride	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
n-Propylbenzene	ND	0.0050	"							
Styrene	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
Tetrachloroethene	ND	0.0050	"							
Toluene	ND	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0050	"							

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32904 - EPA 5030 Soil MS										
Blank (AD32904-BLK1)				Prepared: 04/27/03 Analyzed: 04/28/03						
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	*0.123*		"	*0.125*		*98.4*	*70-130*			
Surrogate: Toluene-d8	*0.113*		"	*0.125*		*90.4*	*70-130*			
Surrogate: Bromofluorobenzene	*0.0952*		"	*0.125*		*76.2*	*70-130*			
LCS (AD32904-BS1)				Prepared: 04/27/03 Analyzed: 04/28/03						
Acetone	0.101	0.020	mg/kg	0.123		82.1	3-147			
Benzene	0.0288	0.0050	"	0.0312		92.3	71-116			
Bromobenzene	0.0338	0.0050	"	0.0312		108	87-112			
Bromochloromethane	0.0296	0.0050	"	0.0312		94.9	77-113			
Bromodichloromethane	0.0298	0.0050	"	0.0312		95.5	85-121			
Bromoform	0.0287	0.0050	"	0.0312		92.0	86-124			
Bromomethane	0.0282	0.0050	"	0.0312		90.4	47-128			
n-Butylbenzene	0.0272	0.0050	"	0.0312		87.2	66-113			
sec-Butylbenzene	0.0301	0.0050	"	0.0312		96.5	76-115			
tert-Butylbenzene	0.0290	0.0050	"	0.0312		92.9	77-120			
Carbon tetrachloride	0.0308	0.0050	"	0.0312		98.7	67-118			
Chlorobenzene	0.0312	0.0050	"	0.0312		100	79-114			
Chloroethane	0.0336	0.0050	"	0.0312		108	57-121			
Chloroform	0.0285	0.0050	"	0.0312		91.3	75-115			

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32904 - EPA 5030 Soil MS										
LCS (AD32904-BS1)				Prepared: 04/27/03 Analyzed: 04/28/03						
Chloromethane	0.0361	0.0050	"	0.0312		116	60-110			
2-Chlorotoluene	0.0298	0.0050	"	0.0312		95.5	75-113			
4-Chlorotoluene	0.0294	0.0050	"	0.0312		94.2	73-110			
Dibromochloromethane	0.0312	0.0050	"	0.0312		100	85-121			
1,2-Dibromo-3-chloropropane	0.0280	0.0050	"	0.0312		89.7	70-120			
1,2-Dibromoethane (EDB)	0.0318	0.0050	"	0.0312		102	82-122			
Dibromomethane	0.0287	0.0050	"	0.0312		92.0	75-117			
1,2-Dichlorobenzene	0.0296	0.0050	"	0.0312		94.9	80-115			
1,3-Dichlorobenzene	0.0330	0.0050	"	0.0312		106	77-123			
1,4-Dichlorobenzene	0.0299	0.0050	"	0.0312		95.8	66-116			
Dichlorodifluoromethane	0.0394	0.0050	"	0.0312		126	54-107			
1,1-Dichloroethane	0.0326	0.0050	"	0.0312		104	74-121			
1,2-Dichloroethane	0.0287	0.0050	"	0.0312		92.0	73-116			
1,1-Dichloroethene	0.0337	0.0050	"	0.0312		108	60-124			
cis-1,2-Dichloroethene	0.0302	0.0050	"	0.0312		96.8	77-117			
trans-1,2-Dichloroethene	0.0297	0.0050	"	0.0312		95.2	61-120			
1,2-Dichloropropane	0.0294	0.0050	"	0.0312		94.2	79-120			
1,3-Dichloropropane	0.0322	0.0050	"	0.0312		103	80-116			
2,2-Dichloropropane	0.0328	0.0050	"	0.0312		105	27-151			
1,1-Dichloropropene	0.0306	0.0050	"	0.0312		98.1	57-119			
cis-1,3-Dichloropropene	0.0272	0.0050	"	0.0312		87.2	81-119			
trans-1,3-Dichloropropene	0.0276	0.0050	"	0.0312		88.5	86-128			
Ethylbenzene	0.0313	0.0050	"	0.0312		100	79-114			
Hexachlorobutadiene	0.0331	0.0050	"	0.0312		106	64-112			
Isopropylbenzene	0.0302	0.0050	"	0.0312		96.8	77-113			
p-Isopropyltoluene	0.0276	0.0050	"	0.0312		88.5	74-115			
Methyl ethyl ketone	0.0579	0.015	"	0.0627		92.3	19-150			
Methyl isobutyl ketone	0.0470	0.010	"	0.0624		75.3	53-137			

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Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32904 - EPA 5030 Soil MS										
LCS (AD32904-BS1)				Prepared: 04/27/03 Analyzed: 04/28/03						
Methyl tert-butyl ether	0.0299	0.0050	"	0.0312		95.8	59-128			
Methylene chloride	0.0308	0.0050	"	0.0312		98.7	72-114			
Naphthalene	0.0280	0.0050	"	0.0312		89.7	75-118			
n-Propylbenzene	0.0295	0.0050	"	0.0312		94.6	75-114			
Styrene	0.0292	0.0050	"	0.0312		93.6	82-114			
1,1,1,2-Tetrachloroethane	0.0306	0.0050	"	0.0312		98.1	84-118			
1,1,2,2-Tetrachloroethane	0.0294	0.0050	"	0.0312		94.2	81-121			
Tetrachloroethene	0.0282	0.0050	"	0.0312		90.4	66-124			
Toluene	0.0331	0.0050	"	0.0312		106	73-124			
1,2,3-Trichlorobenzene	0.0311	0.0050	"	0.0312		99.7	68-119			
1,2,4-Trichlorobenzene	0.0300	0.0050	"	0.0312		96.2	58-120			
1,1,1-Trichloroethane	0.0320	0.0050	"	0.0312		103	69-114			
1,1,2-Trichloroethane	0.0288	0.0050	"	0.0312		92.3	84-119			
Trichloroethene	0.0315	0.0050	"	0.0312		101	77-118			
Trichlorofluoromethane	0.0334	0.0050	"	0.0312		107	63-115			
Trichlorotrifluoroethane	0.0318	0.0050	"	0.0308		103	61-119			
1,2,3-Trichloropropane	0.0284	0.0050	"	0.0312		91.0	86-123			
1,2,4-Trimethylbenzene	0.0303	0.0050	"	0.0312		97.1	75-111			
1,3,5-Trimethylbenzene	0.0284	0.0050	"	0.0312		91.0	77-114			
Vinyl chloride	0.0336	0.0050	"	0.0312		108	47-142			
m,p-Xylene	0.0604	0.0050	"	0.0625		96.6	75-113			
o-Xylene	0.0304	0.0050	"	0.0312		97.4	79-112			
Xylenes (total)	0.0907	0.0050	"	0.0938		96.7	75-113			
Surrogate: Dibromofluoromethane	*0.108*		"	*0.125*		*86.4*	*70-130*			
Surrogate: Toluene-d8	*0.121*		"	*0.125*		*96.8*	*70-130*			
Surrogate: Bromofluorobenzene	*0.121*		"	*0.125*		*96.8*	*70-130*			
LCS Dup (AD32904-BSD1)				Prepared: 04/27/03 Analyzed: 04/28/03						

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Tetra Tech/MFG, Inc.

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32904 - EPA 5030 Soil MS										
LCS Dup (AD32904-BSD1)				Prepared: 04/27/03 Analyzed: 04/28/03						
Acetone	0.0952	0.020	mg/kg	0.123		77.4	3-147		25	
Benzene	0.0273	0.0050	"	0.0312		87.5	71-116		25	
Bromobenzene	0.0306	0.0050	"	0.0312		98.1	87-112		25	
Bromochloromethane	0.0318	0.0050	"	0.0312		102	77-113		25	
Bromodichloromethane	0.0276	0.0050	"	0.0312		88.5	85-121		25	
Bromoform	0.0278	0.0050	"	0.0312		89.1	86-124		25	
Bromomethane	0.0285	0.0050	"	0.0312		91.3	47-128		25	
n-Butylbenzene	0.0262	0.0050	"	0.0312		84.0	66-113		25	
sec-Butylbenzene	0.0288	0.0050	"	0.0312		92.3	76-115		25	
tert-Butylbenzene	0.0276	0.0050	"	0.0312		88.5	77-120		25	
Carbon tetrachloride	0.0282	0.0050	"	0.0312		90.4	67-118		25	
Chlorobenzene	0.0302	0.0050	"	0.0312		96.8	79-114		25	
Chloroethane	0.0330	0.0050	"	0.0312		106	57-121		25	
Chloroform	0.0268	0.0050	"	0.0312		85.9	75-115		25	
Chloromethane	0.0344	0.0050	"	0.0312		110	60-110		25	
2-Chlorotoluene	0.0276	0.0050	"	0.0312		88.5	75-113		25	
4-Chlorotoluene	0.0279	0.0050	"	0.0312		89.4	73-110		25	
Dibromochloromethane	0.0287	0.0050	"	0.0312		92.0	85-121		25	
1,2-Dibromo-3-chloropropane	0.0296	0.0050	"	0.0312		94.9	70-120		25	
1,2-Dibromoethane (EDB)	0.0302	0.0050	"	0.0312		96.8	82-122		25	
Dibromomethane	0.0293	0.0050	"	0.0312		93.9	75-117		25	
1,2-Dichlorobenzene	0.0290	0.0050	"	0.0312		92.9	80-115		25	
1,3-Dichlorobenzene	0.0306	0.0050	"	0.0312		98.1	77-123		25	
1,4-Dichlorobenzene	0.0290	0.0050	"	0.0312		92.9	66-116		25	
Dichlorodifluoromethane	0.0378	0.0050	"	0.0312		121	54-107		25	
1,1-Dichloroethane	0.0304	0.0050	"	0.0312		97.4	74-121		25	
1,2-Dichloroethane	0.0260	0.0050	"	0.0312		83.3	73-116		25	
1,1-Dichloroethene	0.0324	0.0050	"	0.0312		104	60-124		25	

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Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32904 - EPA 5030 Soil MS										
LCS Dup (AD32904-BSD1)				Prepared: 04/27/03 Analyzed: 04/28/03						
cis-1,2-Dichloroethene	0.0296	0.0050	"	0.0312		94.9	77-117		25	
trans-1,2-Dichloroethene	0.0314	0.0050	"	0.0312		101	61-120		25	
1,2-Dichloropropane	0.0294	0.0050	"	0.0312		94.2	79-120		25	
1,3-Dichloropropane	0.0316	0.0050	"	0.0312		101	80-116		25	
2,2-Dichloropropane	0.0286	0.0050	"	0.0312		91.7	27-151		25	
1,1-Dichloropropene	0.0300	0.0050	"	0.0312		96.2	57-119		25	
cis-1,3-Dichloropropene	0.0236	0.0050	"	0.0312		75.6	81-119		25	
trans-1,3-Dichloropropene	0.0270	0.0050	"	0.0312		86.5	86-128		25	
Ethylbenzene	0.0300	0.0050	"	0.0312		96.2	79-114		25	
Hexachlorobutadiene	0.0292	0.0050	"	0.0312		93.6	64-112		25	
Isopropylbenzene	0.0292	0.0050	"	0.0312		93.6	77-113		25	
p-Isopropyltoluene	0.0260	0.0050	"	0.0312		83.3	74-115		25	
Methyl ethyl ketone	0.0604	0.015	"	0.0627		96.3	19-150		25	
Methyl isobutyl ketone	0.0480	0.010	"	0.0624		76.9	53-137		25	
Methyl tert-butyl ether	0.0279	0.0050	"	0.0312		89.4	59-128		25	
Methylene chloride	0.0298	0.0050	"	0.0312		95.5	72-114		25	
Naphthalene	0.0268	0.0050	"	0.0312		85.9	75-118		25	
n-Propylbenzene	0.0280	0.0050	"	0.0312		89.7	75-114		25	
Styrene	0.0267	0.0050	"	0.0312		85.6	82-114		25	
1,1,1,2-Tetrachloroethane	0.0304	0.0050	"	0.0312		97.4	84-118		25	
1,1,2,2-Tetrachloroethane	0.0290	0.0050	"	0.0312		92.9	81-121		25	
Tetrachloroethene	0.0278	0.0050	"	0.0312		89.1	66-124		25	
Toluene	0.0337	0.0050	"	0.0312		108	73-124		25	
1,2,3-Trichlorobenzene	0.0288	0.0050	"	0.0312		92.3	68-119		25	
1,2,4-Trichlorobenzene	0.0274	0.0050	"	0.0312		87.8	58-120		25	
1,1,1-Trichloroethane	0.0300	0.0050	"	0.0312		96.2	69-114		25	
1,1,2-Trichloroethane	0.0298	0.0050	"	0.0312		95.5	84-119		25	
Trichloroethene	0.0306	0.0050	"	0.0312		98.1	77-118		25	

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Sheri Speaks

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Project Manager

5/8/03

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

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1165 G. Street, Suite E
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Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32904 - EPA 5030 Soil MS										
LCS Dup (AD32904-BSD1)				Prepared: 04/27/03 Analyzed: 04/28/03						
Trichlorofluoromethane	0.0319	0.0050	"	0.0312		102	63-115		25	
Trichlorotrifluoroethane	0.0280	0.0050	"	0.0308		90.9	61-119		25	
1,2,3-Trichloropropane	0.0272	0.0050	"	0.0312		87.2	86-123		25	
1,2,4-Trimethylbenzene	0.0280	0.0050	"	0.0312		89.7	75-111		25	
1,3,5-Trimethylbenzene	0.0271	0.0050	"	0.0312		86.9	77-114		25	
Vinyl chloride	0.0332	0.0050	"	0.0312		106	47-142		25	
m,p-Xylene	0.0563	0.0050	"	0.0625		90.1	75-113		25	
o-Xylene	0.0286	0.0050	"	0.0312		91.7	79-112		25	
Xylenes (total)	0.0849	0.0050	"	0.0938		90.5	75-113		25	
Surrogate: Dibromofluoromethane	*0.109*		"	*0.125*		*87.2*	*70-130*			
Surrogate: Toluene-d8	*0.117*		"	*0.125*		*93.6*	*70-130*			
Surrogate: Bromofluorobenzene	*0.112*		"	*0.125*		*89.6*	*70-130*			
Matrix Spike (AD32904-MS1)		**Source: A304405-01**		Prepared: 04/27/03 Analyzed: 04/28/03						
Acetone	0.100	0.020	mg/kg	0.123	ND	81.3	3-147			
Benzene	0.0287	0.0050	"	0.0312	ND	92.0	71-116			
Bromobenzene	0.0318	0.0050	"	0.0312	ND	102	87-112			
Bromochloromethane	0.0316	0.0050	"	0.0312	ND	101	77-113			
Bromodichloromethane	0.0263	0.0050	"	0.0312	ND	84.3	85-121			
Bromoform	0.0278	0.0050	"	0.0312	ND	89.1	86-124			
Bromomethane	0.0289	0.0050	"	0.0312	ND	92.6	47-128			
n-Butylbenzene	0.0264	0.0050	"	0.0312	ND	84.6	66-113			
sec-Butylbenzene	0.0290	0.0050	"	0.0312	ND	92.9	76-115			
tert-Butylbenzene	0.0282	0.0050	"	0.0312	ND	90.4	77-120			
Carbon tetrachloride	0.0310	0.0050	"	0.0312	ND	99.4	67-118			
Chlorobenzene	0.0312	0.0050	"	0.0312	ND	100	79-114			
Chloroethane	0.0337	0.0050	"	0.0312	ND	108	57-121			
Chloroform	0.0280	0.0050	"	0.0312	ND	89.7	75-115			

Sheri Speaks

Sheri L. Speaks
Project Manager

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

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32904 - EPA 5030 Soil MS										
Matrix Spike (AD32904-MS1)		**Source: A304405-01**		Prepared: 04/27/03		Analyzed: 04/28/03				
Chloromethane	0.0364	0.0050	"	0.0312	ND	117	60-110			
2-Chlorotoluene	0.0295	0.0050	"	0.0312	ND	94.6	75-113			
4-Chlorotoluene	0.0288	0.0050	"	0.0312	ND	92.3	73-110			
Dibromochloromethane	0.0288	0.0050	"	0.0312	ND	92.3	85-121			
1,2-Dibromo-3-chloropropane	0.0298	0.0050	"	0.0312	ND	95.5	70-120			
1,2-Dibromoethane (EDB)	0.0301	0.0050	"	0.0312	ND	96.5	82-122			
Dibromomethane	0.0288	0.0050	"	0.0312	ND	92.3	75-117			
1,2-Dichlorobenzene	0.0286	0.0050	"	0.0312	ND	91.7	80-115			
1,3-Dichlorobenzene	0.0310	0.0050	"	0.0312	ND	99.4	77-123			
1,4-Dichlorobenzene	0.0290	0.0050	"	0.0312	ND	92.9	66-116			
Dichlorodifluoromethane	0.0396	0.0050	"	0.0312	ND	127	54-107			
1,1-Dichloroethane	0.0318	0.0050	"	0.0312	ND	102	74-121			
1,2-Dichloroethane	0.0284	0.0050	"	0.0312	ND	91.0	73-116			
1,1-Dichloroethene	0.0342	0.0050	"	0.0312	ND	110	60-124			
cis-1,2-Dichloroethene	0.0292	0.0050	"	0.0312	ND	93.6	77-117			
trans-1,2-Dichloroethene	0.0311	0.0050	"	0.0312	ND	99.7	61-120			
1,2-Dichloropropane	0.0290	0.0050	"	0.0312	ND	92.9	79-120			
1,3-Dichloropropane	0.0306	0.0050	"	0.0312	ND	98.1	80-116			
2,2-Dichloropropane	0.0317	0.0050	"	0.0312	ND	102	27-151			
1,1-Dichloropropene	0.0298	0.0050	"	0.0312	ND	95.5	57-119			
cis-1,3-Dichloropropene	0.0277	0.0050	"	0.0312	ND	88.8	81-119			
trans-1,3-Dichloropropene	0.0260	0.0050	"	0.0312	ND	83.3	86-128			
Ethylbenzene	0.0306	0.0050	"	0.0312	ND	98.1	79-114			
Hexachlorobutadiene	0.0304	0.0050	"	0.0312	ND	97.4	64-112			
Isopropylbenzene	0.0298	0.0050	"	0.0312	ND	95.5	77-113			
p-Isopropyltoluene	0.0264	0.0050	"	0.0312	ND	84.6	74-115			
Methyl ethyl ketone	0.0564	0.015	"	0.0627	ND	90.0	19-150			
Methyl isobutyl ketone	0.0461	0.010	"	0.0624	ND	73.9	53-137			

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32904 - EPA 5030 Soil MS										
Matrix Spike (AD32904-MS1)		**Source: A304405-01**		Prepared: 04/27/03		Analyzed: 04/28/03				
Methyl tert-butyl ether	0.0280	0.0050	"	0.0312	ND	89.7	59-128			
Methylene chloride	0.0309	0.0050	"	0.0312	ND	99.0	72-114			
Naphthalene	0.0268	0.0050	"	0.0312	ND	85.9	75-118			
n-Propylbenzene	0.0279	0.0050	"	0.0312	ND	89.4	75-114			
Styrene	0.0278	0.0050	"	0.0312	ND	89.1	82-114			
1,1,1,2-Tetrachloroethane	0.0293	0.0050	"	0.0312	ND	93.9	84-118			
1,1,2,2-Tetrachloroethane	0.0290	0.0050	"	0.0312	ND	92.9	81-121			
Tetrachloroethene	0.0297	0.0050	"	0.0312	ND	95.2	66-124			
Toluene	0.0330	0.0050	"	0.0312	ND	106	73-124			
1,2,3-Trichlorobenzene	0.0288	0.0050	"	0.0312	ND	92.3	68-119			
1,2,4-Trichlorobenzene	0.0270	0.0050	"	0.0312	ND	86.5	58-120			
1,1,1-Trichloroethane	0.0314	0.0050	"	0.0312	ND	101	69-114			
1,1,2-Trichloroethane	0.0282	0.0050	"	0.0312	ND	90.4	84-119			
Trichloroethene	0.0314	0.0050	"	0.0312	ND	101	77-118			
Trichlorofluoromethane	0.0334	0.0050	"	0.0312	ND	107	63-115			
Trichlorotrifluoroethane	0.0314	0.0050	"	0.0308	ND	102	61-119			
1,2,3-Trichloropropane	0.0268	0.0050	"	0.0312	ND	85.9	86-123			
1,2,4-Trimethylbenzene	0.0287	0.0050	"	0.0312	ND	92.0	75-111			
1,3,5-Trimethylbenzene	0.0277	0.0050	"	0.0312	ND	88.8	77-114			
Vinyl chloride	0.0345	0.0050	"	0.0312	ND	111	47-142			
m,p-Xylene	0.0576	0.0050	"	0.0625	ND	92.2	75-113			
o-Xylene	0.0286	0.0050	"	0.0312	ND	91.7	79-112			
Xylenes (total)	0.0863	0.0050	"	0.0938	ND	92.0	75-113			
Surrogate: Dibromofluoromethane	*0.108*		"	*0.125*		*86.4*	*70-130*			
Surrogate: Toluene-d8	*0.120*		"	*0.125*		*96.0*	*70-130*			
Surrogate: Bromofluorobenzene	*0.116*		"	*0.125*		*92.8*	*70-130*			

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Sheri Speaks

Sheri L. Speaks
Project Manager

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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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32919 - EPA 5030 Water MS										
Blank (AD32919-BLK1)				Prepared & Analyzed: 04/28/03						
Acetone	ND	5.0	ug/l							
Benzene	ND	0.30	"							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.30	"							

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32919 - EPA 5030 Water MS										
Blank (AD32919-BLK1)				Prepared & Analyzed: 04/28/03						
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methyl ethyl ketone	ND	1.0	"							
Methyl isobutyl ketone	ND	1.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.30	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							

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A304575	04/24/2003 15:40	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 AD32919 - EPA 5030 Water MS										
Blank (AD32919-BLK1)				Prepared & Analyzed: 04/28/03						
Trichlorofluoromethane	ND	0.50	"							
Trichlorotrifluoroethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
m,p-Xylene	ND	0.50	"							
o-Xylene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	*20.9*		"	*25.0*		*83.6*	*70-130*			
Surrogate: Toluene-d8	*21.6*		"	*25.0*		*86.4*	*70-130*			
Surrogate: Bromofluorobenzene	*20.2*		"	*25.0*		*80.8*	*70-130*			
LCS (AD32919-BS1)				Prepared & Analyzed: 04/28/03						
Acetone	35.8	5.0	ug/l	39.5		90.6	2-152			
Benzene	10.0	0.30	"	10.0		100	77-127			
Bromobenzene	9.79	0.50	"	10.0		97.9	87-116			
Bromochloromethane	10.1	0.50	"	10.0		101	76-122			
Bromodichloromethane	10.7	0.50	"	10.0		107	81-132			
Bromoform	11.0	0.50	"	10.0		110	84-121			
Bromomethane	10.5	0.50	"	10.0		105	60-145			
n-Butylbenzene	9.52	0.50	"	10.0		95.2	80-121			
sec-Butylbenzene	9.86	0.50	"	10.0		98.6	87-116			
tert-Butylbenzene	9.60	0.50	"	10.0		96.0	80-127			
Carbon tetrachloride	11.5	0.50	"	10.0		115	76-131			
Chlorobenzene	9.65	0.50	"	10.0		96.5	83-126			
Chloroethane	10.1	0.50	"	10.0		101	54-152			
Chloroform	10.2	0.50	"	10.0		102	79-135			

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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1165 G. Street, Suite E
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Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32919 - EPA 5030 Water MS										
LCS (AD32919-BS1)				Prepared & Analyzed: 04/28/03						
Chloromethane	11.5	0.50	"	10.0		115	62-130			
2-Chlorotoluene	10.2	0.50	"	10.0		102	76-126			
4-Chlorotoluene	9.98	0.50	"	10.0		99.8	76-126			
Dibromochloromethane	10.8	0.50	"	10.0		108	80-126			
1,2-Dibromo-3-chloropropane	11.2	0.50	"	10.0		112	76-117			
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	83-115			
Dibromomethane	9.78	0.50	"	10.0		97.8	74-124			
1,2-Dichlorobenzene	9.98	0.50	"	10.0		99.8	83-129			
1,3-Dichlorobenzene	9.91	0.50	"	10.0		99.1	86-132			
1,4-Dichlorobenzene	9.78	0.50	"	10.0		97.8	84-123			
Dichlorodifluoromethane	12.9	0.50	"	10.0		129	43-135			
1,1-Dichloroethane	9.72	0.50	"	10.0		97.2	79-129			
1,2-Dichloroethane	10.1	0.50	"	10.0		101	79-129			
1,1-Dichloroethene	11.0	0.30	"	10.0		110	84-121			
cis-1,2-Dichloroethene	9.94	0.50	"	10.0		99.4	83-130			
trans-1,2-Dichloroethene	10.1	0.50	"	10.0		101	81-128			
1,2-Dichloropropane	10.4	0.50	"	10.0		104	80-126			
1,3-Dichloropropane	10.3	0.50	"	10.0		103	76-116			
2,2-Dichloropropane	9.55	0.50	"	10.0		95.5	39-131			
1,1-Dichloropropene	10.3	0.50	"	10.0		103	78-124			
cis-1,3-Dichloropropene	10.8	0.50	"	10.0		108	84-123			
trans-1,3-Dichloropropene	10.2	0.50	"	10.0		102	84-122			
Ethylbenzene	9.94	0.50	"	10.0		99.4	86-124			
Hexachlorobutadiene	10.3	0.50	"	10.0		103	72-135			
Isopropylbenzene	9.51	0.50	"	10.0		95.1	87-116			
p-Isopropyltoluene	9.24	0.50	"	10.0		92.4	87-116			
Methyl ethyl ketone	18.0	1.0	"	20.1		89.6	37-154			
Methyl isobutyl ketone	19.2	1.0	"	20.0		96.0	83-113			

Sheri Speaks

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Project Manager

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

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1165 G. Street, Suite E
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Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32919 - EPA 5030 Water MS										
LCS (AD32919-BS1)				Prepared & Analyzed: 04/28/03						
Methyl tert-butyl ether	9.99	0.50	"	10.0		99.9	75-126			
Methylene chloride	9.80	0.50	"	10.0		98.0	79-121			
Naphthalene	9.54	0.50	"	10.0		95.4	73-121			
n-Propylbenzene	10.0	0.50	"	10.0		100	87-115			
Styrene	9.34	0.50	"	10.0		93.4	90-114			
1,1,1,2-Tetrachloroethane	11.3	0.50	"	10.0		113	82-123			
1,1,2,2-Tetrachloroethane	10.2	0.50	"	10.0		102	83-115			
Tetrachloroethene	9.68	0.50	"	10.0		96.8	75-135			
Toluene	9.88	0.30	"	10.0		98.8	85-127			
1,2,3-Trichlorobenzene	9.35	0.50	"	10.0		93.5	88-122			
1,2,4-Trichlorobenzene	9.26	0.50	"	10.0		92.6	85-122			
1,1,1-Trichloroethane	10.0	0.50	"	10.0		100	76-130			
1,1,2-Trichloroethane	10.2	0.50	"	10.0		102	81-128			
Trichloroethene	10.6	0.50	"	10.0		106	82-126			
Trichlorofluoromethane	11.1	0.50	"	10.0		111	76-124			
Trichlorotrifluoroethane	10.5	0.50	"	9.84		107	71-136			
1,2,3-Trichloropropane	10.1	0.50	"	10.0		101	84-119			
1,2,4-Trimethylbenzene	10.1	0.50	"	10.0		101	86-114			
1,3,5-Trimethylbenzene	10.0	0.50	"	10.0		100	87-117			
Vinyl chloride	11.0	0.50	"	10.0		110	61-150			
m,p-Xylene	19.0	0.50	"	20.0		95.0	86-116			
o-Xylene	9.80	0.50	"	10.0		98.0	82-117			
Xylenes (total)	28.8	0.50	"	30.0		96.0	82-117			
Surrogate: Dibromofluoromethane	*22.4*		"	*25.0*		*89.6*	*70-130*			
Surrogate: Toluene-d8	*21.8*		"	*25.0*		*87.2*	*70-130*			
Surrogate: Bromofluorobenzene	*21.2*		"	*25.0*		*84.8*	*70-130*			
LCS Dup (AD32919-BSD1)				Prepared & Analyzed: 04/28/03						

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32919 - EPA 5030 Water MS										
LCS Dup (AD32919-BSD1)				Prepared & Analyzed: 04/28/03						
Acetone	36.1	5.0	ug/l	39.5		91.4	2-152		25	
Benzene	10.2	0.30	"	10.0		102	77-127		25	
Bromobenzene	9.89	0.50	"	10.0		98.9	87-116		25	
Bromochloromethane	10.3	0.50	"	10.0		103	76-122		25	
Bromodichloromethane	11.2	0.50	"	10.0		112	81-132		25	
Bromoform	11.4	0.50	"	10.0		114	84-121		25	
Bromomethane	11.7	0.50	"	10.0		117	60-145		25	
n-Butylbenzene	10.1	0.50	"	10.0		101	80-121		25	
sec-Butylbenzene	10.3	0.50	"	10.0		103	87-116		25	
tert-Butylbenzene	10.0	0.50	"	10.0		100	80-127		25	
Carbon tetrachloride	11.8	0.50	"	10.0		118	76-131		25	
Chlorobenzene	9.87	0.50	"	10.0		98.7	83-126		25	
Chloroethane	10.2	0.50	"	10.0		102	54-152		25	
Chloroform	10.4	0.50	"	10.0		104	79-135		25	
Chloromethane	11.7	0.50	"	10.0		117	62-130		25	
2-Chlorotoluene	10.2	0.50	"	10.0		102	76-126		25	
4-Chlorotoluene	10.2	0.50	"	10.0		102	76-126		25	
Dibromochloromethane	10.9	0.50	"	10.0		109	80-126		25	
1,2-Dibromo-3-chloropropane	11.1	0.50	"	10.0		111	76-117		25	
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	83-115		25	
Dibromomethane	10.2	0.50	"	10.0		102	74-124		25	
1,2-Dichlorobenzene	10.0	0.50	"	10.0		100	83-129		25	
1,3-Dichlorobenzene	9.99	0.50	"	10.0		99.9	86-132		25	
1,4-Dichlorobenzene	10.0	0.50	"	10.0		100	84-123		25	
Dichlorodifluoromethane	13.8	0.50	"	10.0		138	43-135		25	
1,1-Dichloroethane	10.0	0.50	"	10.0		100	79-129		25	
1,2-Dichloroethane	10.3	0.50	"	10.0		103	79-129		25	
1,1-Dichloroethene	11.4	0.30	"	10.0		114	84-121		25	

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1165 G. Street, Suite E
Arcata, CA 95521
Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32919 - EPA 5030 Water MS										
LCS Dup (AD32919-BSD1)				Prepared & Analyzed: 04/28/03						
cis-1,2-Dichloroethene	10.3	0.50	"	10.0		103	83-130		25	
trans-1,2-Dichloroethene	10.2	0.50	"	10.0		102	81-128		25	
1,2-Dichloropropane	10.6	0.50	"	10.0		106	80-126		25	
1,3-Dichloropropane	10.3	0.50	"	10.0		103	76-116		25	
2,2-Dichloropropane	9.79	0.50	"	10.0		97.9	39-131		25	
1,1-Dichloropropene	10.6	0.50	"	10.0		106	78-124		25	
cis-1,3-Dichloropropene	11.0	0.50	"	10.0		110	84-123		25	
trans-1,3-Dichloropropene	10.2	0.50	"	10.0		102	84-122		25	
Ethylbenzene	10.1	0.50	"	10.0		101	86-124		25	
Hexachlorobutadiene	11.0	0.50	"	10.0		110	72-135		25	
Isopropylbenzene	9.67	0.50	"	10.0		96.7	87-116		25	
p-Isopropyltoluene	9.70	0.50	"	10.0		97.0	87-116		25	
Methyl ethyl ketone	17.9	1.0	"	20.1		89.1	37-154		25	
Methyl isobutyl ketone	19.7	1.0	"	20.0		98.5	83-113		25	
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	75-126		25	
Methylene chloride	9.95	0.50	"	10.0		99.5	79-121		25	
Naphthalene	10.2	0.50	"	10.0		102	73-121		25	
n-Propylbenzene	10.3	0.50	"	10.0		103	87-115		25	
Styrene	9.13	0.50	"	10.0		91.3	90-114		25	
1,1,1,2-Tetrachloroethane	11.4	0.50	"	10.0		114	82-123		25	
1,1,2,2-Tetrachloroethane	10.2	0.50	"	10.0		102	83-115		25	
Tetrachloroethene	9.85	0.50	"	10.0		98.5	75-135		25	
Toluene	10.0	0.30	"	10.0		100	85-127		25	
1,2,3-Trichlorobenzene	9.99	0.50	"	10.0		99.9	88-122		25	
1,2,4-Trichlorobenzene	9.90	0.50	"	10.0		99.0	85-122		25	
1,1,1-Trichloroethane	10.5	0.50	"	10.0		105	76-130		25	
1,1,2-Trichloroethane	10.0	0.50	"	10.0		100	81-128		25	
Trichloroethene	11.0	0.50	"	10.0		110	82-126		25	

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

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A304575	04/24/2003 15:40	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 AD32919 - EPA 5030 Water MS										
LCS Dup (AD32919-BSD1)				Prepared & Analyzed: 04/28/03						
Trichlorofluoromethane	11.6	0.50	"	10.0		116	76-124		25	
Trichlorotrifluoroethane	11.0	0.50	"	9.84		112	71-136		25	
1,2,3-Trichloropropane	9.99	0.50	"	10.0		99.9	84-119		25	
1,2,4-Trimethylbenzene	10.6	0.50	"	10.0		106	86-114		25	
1,3,5-Trimethylbenzene	10.3	0.50	"	10.0		103	87-117		25	
Vinyl chloride	11.5	0.50	"	10.0		115	61-150		25	
m,p-Xylene	19.3	0.50	"	20.0		96.5	86-116		25	
o-Xylene	10.1	0.50	"	10.0		101	82-117		25	
Xylenes (total)	29.4	0.50	"	30.0		98.0	82-117		25	
Surrogate: Dibromofluoromethane	*22.6*		"	*25.0*		*90.4*	*70-130*			
Surrogate: Toluene-d8	*21.6*		"	*25.0*		*86.4*	*70-130*			
Surrogate: Bromofluorobenzene	*20.8*		"	*25.0*		*83.2*	*70-130*			
Matrix Spike (AD32919-MS1)	**Source: A304616-01**			Prepared & Analyzed: 04/28/03						
Acetone	149	5.0	ug/l	39.5	110	98.7	2-152			
Benzene	10.8	0.30	"	10.0	ND	108	77-127			
Bromobenzene	10.5	0.50	"	10.0	ND	105	87-116			
Bromochloromethane	10.9	0.50	"	10.0	ND	109	76-122			
Bromodichloromethane	11.6	0.50	"	10.0	ND	116	81-132			
Bromoform	11.6	0.50	"	10.0	ND	116	84-121			
Bromomethane	12.0	0.50	"	10.0	ND	120	60-145			
n-Butylbenzene	10.5	0.50	"	10.0	ND	105	80-121			
sec-Butylbenzene	10.9	0.50	"	10.0	ND	109	87-116			
tert-Butylbenzene	10.6	0.50	"	10.0	ND	106	80-127			
Carbon tetrachloride	13.0	0.50	"	10.0	ND	130	76-131			
Chlorobenzene	10.5	0.50	"	10.0	ND	105	83-126			
Chloroethane	11.0	0.50	"	10.0	ND	110	54-152			
Chloroform	11.0	0.50	"	10.0	ND	110	79-135			

Sheri Speaks

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Project Manager

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

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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 AD32919 - EPA 5030 Water MS										
Matrix Spike (AD32919-MS1)	**Source: A304616-01**			Prepared & Analyzed: 04/28/03						
Chloromethane	12.3	0.50	"	10.0	ND	123	62-130			
2-Chlorotoluene	11.0	0.50	"	10.0	ND	110	76-126			
4-Chlorotoluene	10.9	0.50	"	10.0	ND	109	76-126			
Dibromochloromethane	11.8	0.50	"	10.0	ND	118	80-126			
1,2-Dibromo-3-chloropropane	11.3	0.50	"	10.0	ND	113	76-117			
1,2-Dibromoethane (EDB)	11.0	0.50	"	10.0	ND	110	83-115			
Dibromomethane	10.5	0.50	"	10.0	ND	105	74-124			
1,2-Dichlorobenzene	10.4	0.50	"	10.0	ND	104	83-129			
1,3-Dichlorobenzene	10.6	0.50	"	10.0	ND	106	86-132			
1,4-Dichlorobenzene	10.5	0.50	"	10.0	ND	105	84-123			
Dichlorodifluoromethane	15.1	0.50	"	10.0	ND	151	43-135			
1,1-Dichloroethane	10.7	0.50	"	10.0	ND	107	79-129			
1,2-Dichloroethane	10.6	0.50	"	10.0	ND	106	79-129			
1,1-Dichloroethene	12.6	0.30	"	10.0	ND	126	84-121			
cis-1,2-Dichloroethene	10.8	0.50	"	10.0	ND	108	83-130			
trans-1,2-Dichloroethene	10.9	0.50	"	10.0	ND	109	81-128			
1,2-Dichloropropane	11.1	0.50	"	10.0	ND	111	80-126			
1,3-Dichloropropane	11.0	0.50	"	10.0	ND	110	76-116			
2,2-Dichloropropane	11.9	0.50	"	10.0	ND	119	39-131			
1,1-Dichloropropene	11.7	0.50	"	10.0	ND	117	78-124			
cis-1,3-Dichloropropene	11.5	0.50	"	10.0	ND	115	84-123			
trans-1,3-Dichloropropene	11.0	0.50	"	10.0	ND	110	84-122			
Ethylbenzene	11.0	0.50	"	10.0	ND	110	86-124			
Hexachlorobutadiene	11.9	0.50	"	10.0	ND	119	72-135			
Isopropylbenzene	10.5	0.50	"	10.0	ND	105	87-116			
p-Isopropyltoluene	10.0	0.50	"	10.0	ND	100	87-116			
Methyl ethyl ketone	17.7	1.0	"	20.1	ND	88.1	37-154			
Methyl isobutyl ketone	20.0	1.0	"	20.0	ND	100	83-113			

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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MFG, Inc - Arcata
1165 G. Street, Suite E
Arcata, CA 95521
Attn: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD32919 - EPA 5030 Water MS										
Matrix Spike (AD32919-MS1)	**Source: A304616-01**		Prepared & Analyzed: 04/28/03							
Methyl tert-butyl ether	10.5	0.50	"	10.0	ND	105	75-126			
Methylene chloride	10.5	0.50	"	10.0	ND	105	79-121			
Naphthalene	9.62	0.50	"	10.0	ND	96.2	73-121			
n-Propylbenzene	11.0	0.50	"	10.0	ND	110	87-115			
Styrene	11.3	0.50	"	10.0	ND	113	90-114			
1,1,1,2-Tetrachloroethane	12.2	0.50	"	10.0	ND	122	82-123			
1,1,2,2-Tetrachloroethane	10.8	0.50	"	10.0	ND	108	83-115			
Tetrachloroethene	11.0	0.50	"	10.0	ND	110	75-135			
Toluene	10.8	0.30	"	10.0	ND	108	85-127			
1,2,3-Trichlorobenzene	9.62	0.50	"	10.0	ND	96.2	88-122			
1,2,4-Trichlorobenzene	9.63	0.50	"	10.0	ND	96.3	85-122			
1,1,1-Trichloroethane	11.4	0.50	"	10.0	ND	114	76-130			
1,1,2-Trichloroethane	10.9	0.50	"	10.0	ND	109	81-128			
Trichloroethene	11.5	0.50	"	10.0	ND	115	82-126			
Trichlorofluoromethane	12.8	0.50	"	10.0	ND	128	76-124			
Trichlorotrifluoroethane	12.3	0.50	"	9.84	ND	125	71-136			
1,2,3-Trichloropropane	10.5	0.50	"	10.0	ND	105	84-119			
1,2,4-Trimethylbenzene	10.8	0.50	"	10.0	ND	108	86-114			
1,3,5-Trimethylbenzene	10.8	0.50	"	10.0	ND	108	87-117			
Vinyl chloride	12.2	0.50	"	10.0	ND	122	61-150			
m,p-Xylene	21.1	0.50	"	20.0	ND	106	86-116			
o-Xylene	10.9	0.50	"	10.0	ND	109	82-117			
Xylenes (total)	31.9	0.50	"	30.0	ND	106	82-117			
Surrogate: Dibromofluoromethane	*23.0*		"	*25.0*		*92.0*	*70-130*			
Surrogate: Toluene-d8	*22.0*		"	*25.0*		*88.0*	*70-130*			
Surrogate: Bromofluorobenzene	*21.4*		"	*25.0*		*85.6*	*70-130*			

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 14 2003
Tetra Tech/MFG, Inc.

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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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 AE30601 - EPA 5030 Soil MS										
Blank (AE30601-BLK1)			Prepared & Analyzed: 05/02/03							
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	"							
1,2-Dichloroethane	ND	0.22	"							
1,1-Dichloroethene	ND	0.22	"							

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE30601 - EPA 5030 Soil MS										
Blank (AE30601-BLK1)				Prepared & Analyzed: 05/02/03						
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	"							
1,1,1-Trichloroethane	ND	0.22	"							
1,1,2-Trichloroethane	ND	0.22	"							
Trichloroethene	ND	0.22	"							

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE30601 - EPA 5030 Soil MS										
Blank (AE30601-BLK1)				Prepared & Analyzed: 05/02/03						
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	*4.29*		"	*5.41*		*79.3*	*70-130*			
Surrogate: Toluene-d8	*5.01*		"	*5.41*		*92.6*	*70-130*			
Surrogate: Bromofluorobenzene	*3.72*		"	*5.41*		*68.8*	*70-130*			
LCS (AE30601-BS1)				Prepared & Analyzed: 05/02/03						
Acetone	7.75	0.87	mg/kg	8.53		90.9	3-147			
Benzene	1.88	0.22	"	2.16		87.0	71-116			
Bromobenzene	1.74	0.22	"	2.16		80.6	87-112			
Bromochloromethane	1.90	0.22	"	2.16		88.0	77-113			
Bromodichloromethane	2.05	0.22	"	2.16		94.9	85-121			
Bromoform	2.20	0.22	"	2.16		102	86-124			
Bromomethane	2.02	0.22	"	2.16		93.5	47-128			
n-Butylbenzene	1.82	0.22	"	2.16		84.3	66-113			
sec-Butylbenzene	1.75	0.22	"	2.16		81.0	76-115			
tert-Butylbenzene	1.70	0.22	"	2.16		78.7	77-120			
Carbon tetrachloride	2.18	0.22	"	2.16		101	67-118			
Chlorobenzene	1.87	0.22	"	2.16		86.6	79-114			
Chloroethane	1.79	0.22	"	2.16		82.9	57-121			
Chloroform	1.93	0.22	"	2.16		89.4	75-115			

Sheri Speaks

Sheri L. Speaks
Project Manager

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

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE30601 - EPA 5030 Soil MS										
LCS (AE30601-BS1)				Prepared & Analyzed: 05/02/03						
Chloromethane	1.86	0.22	"	2.16		86.1	60-110			
2-Chlorotoluene	1.61	0.22	"	2.16		74.5	75-113			
4-Chlorotoluene	1.66	0.22	"	2.16		76.9	73-110			
Dibromochloromethane	1.95	0.22	"	2.16		90.3	85-121			
1,2-Dibromo-3-chloropropane	2.26	0.22	"	2.16		105	70-120			
1,2-Dibromoethane (EDB)	1.85	0.22	"	2.16		85.6	82-122			
Dibromomethane	1.88	0.22	"	2.16		87.0	75-117			
1,2-Dichlorobenzene	1.90	0.22	"	2.16		88.0	80-115			
1,3-Dichlorobenzene	1.64	0.22	"	2.16		75.9	77-123			
1,4-Dichlorobenzene	1.89	0.22	"	2.16		87.5	66-116			
Dichlorodifluoromethane	1.92	0.22	"	2.16		88.9	54-107			
1,1-Dichloroethane	1.91	0.22	"	2.16		88.4	74-121			
1,2-Dichloroethane	1.93	0.22	"	2.16		89.4	73-116			
1,1-Dichloroethene	2.07	0.22	"	2.16		95.8	60-124			
cis-1,2-Dichloroethene	1.89	0.22	"	2.16		87.5	77-117			
trans-1,2-Dichloroethene	1.94	0.22	"	2.16		89.8	61-120			
1,2-Dichloropropane	1.92	0.22	"	2.16		88.9	79-120			
1,3-Dichloropropane	1.83	0.22	"	2.16		84.7	80-116			
2,2-Dichloropropane	2.02	0.22	"	2.16		93.5	27-151			
1,1-Dichloropropene	2.03	0.22	"	2.16		94.0	57-119			
cis-1,3-Dichloropropene	2.05	0.22	"	2.16		94.9	81-119			
trans-1,3-Dichloropropene	1.82	0.22	"	2.16		84.3	86-128			
Ethylbenzene	1.76	0.22	"	2.16		81.5	79-114			
Hexachlorobutadiene	2.07	0.22	"	2.16		95.8	64-112			
Isopropylbenzene	1.60	0.22	"	2.16		74.1	77-113			
p-Isopropyltoluene	1.63	0.22	"	2.16		75.5	74-115			
Methyl ethyl ketone	3.69	0.65	"	4.34		85.0	19-150			
Methyl isobutyl ketone	4.05	0.43	"	4.32		93.8	53-137			

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Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AE30601 - EPA 5030 Soil MS										
LCS (AE30601-BS1)				Prepared & Analyzed: 05/02/03						
Methyl tert-butyl ether	1.89	0.22	"	2.16		87.5	59-128			
Methylene chloride	1.88	0.22	"	2.16		87.0	72-114			
Naphthalene	1.99	0.22	"	2.16		92.1	75-118			
n-Propylbenzene	1.69	0.22	"	2.16		78.2	75-114			
Styrene	1.65	0.22	"	2.16		76.4	82-114			
1,1,1,2-Tetrachloroethane	2.11	0.22	"	2.16		97.7	84-118			
1,1,2,2-Tetrachloroethane	2.00	0.22	"	2.16		92.6	81-121			
Tetrachloroethene	1.87	0.22	"	2.16		86.6	66-124			
Toluene	1.81	0.22	"	2.16		83.8	73-124			
1,2,3-Trichlorobenzene	1.91	0.22	"	2.16		88.4	68-119			
1,2,4-Trichlorobenzene	1.85	0.22	"	2.16		85.6	58-120			
1,1,1-Trichloroethane	2.05	0.22	"	2.16		94.9	69-114			
1,1,2-Trichloroethane	1.86	0.22	"	2.16		86.1	84-119			
Trichloroethene	2.10	0.22	"	2.16		97.2	77-118			
Trichlorofluoromethane	1.99	0.22	"	2.16		92.1	63-115			
Trichlorotrifluoroethane	2.17	0.22	"	2.13		102	61-119			
1,2,3-Trichloropropane	1.94	0.22	"	2.16		89.8	86-123			
1,2,4-Trimethylbenzene	1.68	0.22	"	2.16		77.8	75-111			
1,3,5-Trimethylbenzene	1.64	0.22	"	2.16		75.9	77-114			
Vinyl chloride	1.88	0.22	"	2.16		87.0	47-142			
m,p-Xylene	3.38	0.22	"	4.32		78.2	75-113			
o-Xylene	1.68	0.22	"	2.16		77.8	79-112			
Xylenes (total)	5.06	0.22	"	6.48		78.1	75-113			
Surrogate: Dibromofluoromethane	*4.51*		"	*5.41*		*83.4*	*70-130*			
Surrogate: Toluene-d8	*4.45*		"	*5.41*		*82.3*	*70-130*			
Surrogate: Bromofluorobenzene	*4.20*		"	*5.41*		*77.6*	*70-130*			
LCS Dup (AE30601-BSD1)				Prepared & Analyzed: 05/02/03						

Sheri Speaks

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Project Manager

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Project ID: SPI Arcata Sawmill

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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 AE30601 - EPA 5030 Soil MS										
LCS Dup (AE30601-BSD1)				Prepared & Analyzed: 05/02/03						
Acetone	8.00	0.87	mg/kg	8.53		93.8	3-147		25	
Benzene	1.86	0.22	"	2.16		86.1	71-116		25	
Bromobenzene	1.80	0.22	"	2.16		83.3	87-112		25	
Bromochloromethane	1.90	0.22	"	2.16		88.0	77-113		25	
Bromodichloromethane	1.96	0.22	"	2.16		90.7	85-121		25	
Bromoform	2.09	0.22	"	2.16		96.8	86-124		25	
Bromomethane	2.00	0.22	"	2.16		92.6	47-128		25	
n-Butylbenzene	1.77	0.22	"	2.16		81.9	66-113		25	
sec-Butylbenzene	1.79	0.22	"	2.16		82.9	76-115		25	
tert-Butylbenzene	1.74	0.22	"	2.16		80.6	77-120		25	
Carbon tetrachloride	2.13	0.22	"	2.16		98.6	67-118		25	
Chlorobenzene	1.84	0.22	"	2.16		85.2	79-114		25	
Chloroethane	1.91	0.22	"	2.16		88.4	57-121		25	
Chloroform	1.91	0.22	"	2.16		88.4	75-115		25	
Chloromethane	1.98	0.22	"	2.16		91.7	60-110		25	
2-Chlorotoluene	1.70	0.22	"	2.16		78.7	75-113		25	
4-Chlorotoluene	1.72	0.22	"	2.16		79.6	73-110		25	
Dibromochloromethane	1.93	0.22	"	2.16		89.4	85-121		25	
1,2-Dibromo-3-chloropropane	2.15	0.22	"	2.16		99.5	70-120		25	
1,2-Dibromoethane (EDB)	1.80	0.22	"	2.16		83.3	82-122		25	
Dibromomethane	1.86	0.22	"	2.16		86.1	75-117		25	
1,2-Dichlorobenzene	1.83	0.22	"	2.16		84.7	80-115		25	
1,3-Dichlorobenzene	1.69	0.22	"	2.16		78.2	77-123		25	
1,4-Dichlorobenzene	1.84	0.22	"	2.16		85.2	66-116		25	
Dichlorodifluoromethane	2.08	0.22	"	2.16		96.3	54-107		25	
1,1-Dichloroethane	1.85	0.22	"	2.16		85.6	74-121		25	
1,2-Dichloroethane	1.93	0.22	"	2.16		89.4	73-116		25	
1,1-Dichloroethene	2.05	0.22	"	2.16		94.9	60-124		25	

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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

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1165 G. Street, Suite E
Arcata, CA 95521
Attn: Orrin Plocher

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AE30601 - EPA 5030 Soil MS										
LCS Dup (AE30601-BSD1)				Prepared & Analyzed: 05/02/03						
cis-1,2-Dichloroethene	1.83	0.22	"	2.16		84.7	77-117		25	
trans-1,2-Dichloroethene	1.90	0.22	"	2.16		88.0	61-120		25	
1,2-Dichloropropane	1.94	0.22	"	2.16		89.8	79-120		25	
1,3-Dichloropropane	1.82	0.22	"	2.16		84.3	80-116		25	
2,2-Dichloropropane	2.02	0.22	"	2.16		93.5	27-151		25	
1,1-Dichloropropene	2.02	0.22	"	2.16		93.5	57-119		25	
cis-1,3-Dichloropropene	1.99	0.22	"	2.16		92.1	81-119		25	
trans-1,3-Dichloropropene	1.79	0.22	"	2.16		82.9	86-128		25	
Ethylbenzene	1.78	0.22	"	2.16		82.4	79-114		25	
Hexachlorobutadiene	2.03	0.22	"	2.16		94.0	64-112		25	
Isopropylbenzene	1.63	0.22	"	2.16		75.5	77-113		25	
p-Isopropyltoluene	1.70	0.22	"	2.16		78.7	74-115		25	
Methyl ethyl ketone	3.78	0.65	"	4.34		87.1	19-150		25	
Methyl isobutyl ketone	4.08	0.43	"	4.32		94.4	53-137		25	
Methyl tert-butyl ether	1.86	0.22	"	2.16		86.1	59-128		25	
Methylene chloride	1.90	0.22	"	2.16		88.0	72-114		25	
Naphthalene	1.85	0.22	"	2.16		85.6	75-118		25	
n-Propylbenzene	1.72	0.22	"	2.16		79.6	75-114		25	
Styrene	1.72	0.22	"	2.16		79.6	82-114		25	
1,1,1,2-Tetrachloroethane	1.99	0.22	"	2.16		92.1	84-118		25	
1,1,2,2-Tetrachloroethane	1.97	0.22	"	2.16		91.2	81-121		25	
Tetrachloroethene	1.86	0.22	"	2.16		86.1	66-124		25	
Toluene	1.79	0.22	"	2.16		82.9	73-124		25	
1,2,3-Trichlorobenzene	1.78	0.22	"	2.16		82.4	68-119		25	
1,2,4-Trichlorobenzene	1.81	0.22	"	2.16		83.8	58-120		25	
1,1,1-Trichloroethane	2.02	0.22	"	2.16		93.5	69-114		25	
1,1,2-Trichloroethane	1.80	0.22	"	2.16		83.3	84-119		25	
Trichloroethene	2.05	0.22	"	2.16		94.9	77-118		25	

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Sheri L. Speaks
Project Manager

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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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AE30601 - EPA 5030 Soil MS										
LCS Dup (AE30601-BSD1)				Prepared & Analyzed: 05/02/03						
Trichlorofluoromethane	2.11	0.22	"	2.16		97.7	63-115		25	
Trichlorotrifluoroethane	2.22	0.22	"	2.13		104	61-119		25	
1,2,3-Trichloropropane	1.98	0.22	"	2.16		91.7	86-123		25	
1,2,4-Trimethylbenzene	1.77	0.22	"	2.16		81.9	75-111		25	
1,3,5-Trimethylbenzene	1.70	0.22	"	2.16		78.7	77-114		25	
Vinyl chloride	2.03	0.22	"	2.16		94.0	47-142		25	
m,p-Xylene	3.49	0.22	"	4.32		80.8	75-113		25	
o-Xylene	1.70	0.22	"	2.16		78.7	79-112		25	
Xylenes (total)	5.19	0.22	"	6.48		80.1	75-113		25	
Surrogate: Dibromofluoromethane	*4.47*		"	*5.41*		*82.6*	*70-130*			
Surrogate: Toluene-d8	*4.37*		"	*5.41*		*80.8*	*70-130*			
Surrogate: Bromofluorobenzene	*4.38*		"	*5.41*		*81.0*	*70-130*			

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Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AE30118 - General Preparation										
Blank (AE30118-BLK1)				Prepared: 04/29/03 Analyzed: 05/01/03						
Oil & Grease (HEM-SG)	ND	50	mg/kg							
LCS (AE30118-BS1)				Prepared: 04/29/03 Analyzed: 05/01/03						
Oil & Grease (HEM-SG)	3450	50	mg/kg	3500		98.6	80-120			
LCS Dup (AE30118-BSD1)				Prepared: 04/29/03 Analyzed: 05/01/03						
Oil & Grease (HEM-SG)	3500	50	mg/kg	3500		100	80-120		20	
Duplicate (AE30118-DUP1)		Source: A304459-01		Prepared: 04/29/03 Analyzed: 05/01/03						
Oil & Grease (HEM-SG)	885	50	mg/kg		840			5.22	200	
Matrix Spike (AE30118-MS1)		Source: A304459-01		Prepared: 04/30/03 Analyzed: 05/01/03						
Oil & Grease (HEM-SG)	2870	50	mg/kg	2500	840	81.2	80-120			
Matrix Spike Dup (AE30118-MSD1)		Source: A304459-01		Prepared: 04/30/03 Analyzed: 05/01/03						
Oil & Grease (HEM-SG)	3220	50	mg/kg	2500	840	95.2	80-120	11.5	20	
Batch AE30610 - General Preparation										
Blank (AE30610-BLK1)				Prepared: 05/02/03 Analyzed: 05/06/03						
Oil & Grease (HEM-SG)	ND	5.0	mg/l							
LCS (AE30610-BS1)				Prepared: 05/02/03 Analyzed: 05/06/03						
Oil & Grease (HEM-SG)	9.90	5.0	mg/l	10.0		99.0	83-116			
LCS Dup (AE30610-BSD1)				Prepared: 05/02/03 Analyzed: 05/06/03						
Oil & Grease (HEM-SG)	9.70	5.0	mg/l	10.0		97.0	83-116		28	

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	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 AD33011 - CA LUFT - orb shaker										
Blank (AD33011-BLK1)				Prepared: 04/30/03 Analyzed: 05/01/03						
TPH as Diesel	ND	1.0	mg/kg							
TPH as Motor Oil	ND	2.0	"							
Surrogate: 1,4-Bromofluorobenzene	*20.0*		"	*13.7*		*146*	*25-132*			*A-01*
LCS (AD33011-BS1)				Prepared: 04/30/03 Analyzed: 05/01/03						
TPH as Diesel	48.9	1.0	mg/kg	41.7		117	70-130			
TPH as Motor Oil	48.6	2.0	"	41.7		117	70-130			
Surrogate: 1,4-Bromofluorobenzene	*21.9*		"	*13.7*		*160*	*25-132*			*A-01*
Matrix Spike (AD33011-MS1)	**Source: A304575-03**			Prepared: 04/30/03 Analyzed: 05/01/03						
TPH as Diesel	112	1.0	mg/kg	41.7	74	91.1	70-130			
TPH as Motor Oil	270	2.0	"	41.7	250	48.0	70-130			QM-05
Surrogate: 1,4-Bromofluorobenzene	*22.7*		"	*13.7*		*166*	*25-132*			*A-01*
Matrix Spike Dup (AD33011-MSD1)	**Source: A304575-03**			Prepared: 04/30/03 Analyzed: 05/01/03						
TPH as Diesel	118	1.0	mg/kg	41.7	74	106	70-130	5.22	20	
TPH as Motor Oil	287	2.0	"	41.7	250	88.7	70-130	6.10	20	
Surrogate: 1,4-Bromofluorobenzene	*21.2*		"	*13.7*		*155*	*25-132*			*A-01*
Batch AD33012 - EPA 3510B Water										
Blank (AD33012-BLK1)				Prepared: 04/30/03 Analyzed: 05/05/03						
TPH as Diesel	ND	50	ug/l							
TPH as Motor Oil	ND	100	"							
Surrogate: 1,4-Bromofluorobenzene	*710*		"	*686*		*103*	*25-132*			
LCS (AD33012-BS1)				Prepared: 04/30/03 Analyzed: 05/05/03						
TPH as Diesel	1640	50	ug/l	2080		78.8	70-130			
TPH as Motor Oil	1800	100	"	2080		86.5	70-130			

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A304575	04/24/2003 15:40	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 AD33012 - EPA 3510B Water										
LCS (AD33012-BS1)				Prepared: 04/30/03 Analyzed: 05/05/03						
Surrogate: 1,4-Bromofluorobenzene	*623*		"	*686*		*90.8*	*25-132*			
LCS Dup (AD33012-BSD1)				Prepared: 04/30/03 Analyzed: 05/05/03						
TPH as Diesel	1490	50	ug/l	2080		71.6	70-130		20	
TPH as Motor Oil	1580	100	"	2080		76.0	70-130		20	
Surrogate: 1,4-Bromofluorobenzene	*632*		"	*686*		*92.1*	*25-132*			

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Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

TPH as Gasoline by GCFID/5030 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE30112 - EPA 5030 Water GC										
Blank (AE30112-BLK1)				Prepared & Analyzed: 04/28/03						
TPH as Gasoline	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	*26.8*		"	*23.1*		*116*	*48-155*			
LCS (AE30112-BS2)				Prepared & Analyzed: 04/28/03						
TPH as Gasoline	50.5	50	ug/l	50.0		101	65-124			
Surrogate: 1,4-Bromofluorobenzene	*22.3*		"	*20.0*		*112*	*48-155*			
LCS Dup (AE30112-BSD2)				Prepared & Analyzed: 04/28/03						
TPH as Gasoline	50.9	50	ug/l	50.0		102	65-124		14	
Surrogate: 1,4-Bromofluorobenzene	*21.7*		"	*20.0*		*108*	*48-155*			
Batch AE30508 - EPA 5030 Soil GC										
Blank (AE30508-BLK1)				Prepared & Analyzed: 05/02/03						
TPH as Gasoline	ND	1.0	mg/kg							
Surrogate: 1,4-Bromofluorobenzene	*3.64*		"	*5.00*		*72.8*	*60.1-159*			
LCS (AE30508-BS1)				Prepared & Analyzed: 05/02/03						
TPH as Gasoline	40.9	1.0	mg/kg	36.2		113	85-129			
Surrogate: 1,4-Bromofluorobenzene	*5.29*		"	*5.00*		*106*	*60.1-159*			
Matrix Spike (AE30508-MS1)		**Source: A304575-03**		Prepared & Analyzed: 05/02/03						
TPH as Gasoline	43.7	1.0	mg/kg	36.2	14	82.0	85-129			QM-05
Surrogate: 1,4-Bromofluorobenzene	*5.08*		"	*5.00*		*102*	*60.1-159*			
Matrix Spike Dup (AE30508-MSD1)		**Source: A304575-03**		Prepared & Analyzed: 05/02/03						
TPH as Gasoline	45.4	1.0	mg/kg	36.2	14	86.7	85-129	3.82	19	
Surrogate: 1,4-Bromofluorobenzene	*5.35*		"	*5.00*		*107*	*60.1-159*			

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.

Sheri Speaks

Sheri L. Speaks
Project Manager

5/8/03

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: Orrin Plocher

Report Date: 05/08/03 14:35
Project No: 030229
Project ID: SPI Arcata Sawmill

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A304575	04/24/2003 15:40	MFGARC	

Notes and Definitions

A-01	Surrogate spike was checked and quantified at 150% of nominal value due to evaporation, resulting in high surrogate recovery in sample.
G-1	Results in the gasoline organics range are primarily due to overlap from a diesel range product
QM-04	High RPD and/or poor percent recovery may reflect sample non-homogeneity.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
R-04	The Reporting Limits for this analysis are elevated due to sample foaming.
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

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

Alpha Analytical Laboratories	Client Project ID: #A304575	Date Sampled: 04/22/03
208 Mason Street		Date Received: 04/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 04/29/03
	Client P.O.:	Date Analyzed: 05/03/03

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

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0304432

Lab ID	0304432-001A
Client ID	Tank Pit Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<20	2.0	10	Acenaphthylene	ND<20	2.0	10
Anthracene	ND<20	2.0	10	Benzidine	ND<20	2.0	10
Benzoic Acid	ND<100	2.0	50	Benz(a)anthracene	ND<20	2.0	10
Benzo(b)fluoranthene	ND<20	2.0	10	Benzo(k)fluoranthene	ND<20	2.0	10
Benzo(g,h,i)perylene	ND<20	2.0	10	Benzo(a)pyrene	ND<20	2.0	10
Benzyl Alcohol	ND<40	2.0	20	Bis (2-chloroethoxy) Methane	ND<20	2.0	10
Bis (2-chloroethyl) Ether	ND<20	2.0	10	Bis (2-chloroisopropyl) Ether	ND<20	2.0	10
Bis (2-ethylhexyl) Phthalate	ND<20	2.0	10	4-Bromophenyl Phenyl Ether	ND<20	2.0	10
Butylbenzyl Phthalate	ND<20	2.0	10	4-Chloroaniline	ND<20	2.0	10
4-Chloro-3-methylphenol	ND<20	2.0	10	2-Chloronaphthalene	ND<20	2.0	10
2-Chlorophenol	ND<20	2.0	10	4-Chlorophenyl Phenyl Ether	ND<20	2.0	10
Chrysene	ND<20	2.0	10	Dibenzo(a,h)anthracene	ND<20	2.0	10
Dibenzofuran	ND<20	2.0	10	Di-n-butyl Phthalate	ND<20	2.0	10
1,2-Dichlorobenzene	ND<20	2.0	10	1,3-Dichlorobenzene	ND<20	2.0	10
1,4-Dichlorobenzene	ND<20	2.0	10	3,3-Dichlorobenzidine	ND<40	2.0	20
2,4-Dichlorophenol	ND<20	2.0	10	Diethyl Phthalate	ND<20	2.0	10
2,4-Dimethylphenol	ND<20	2.0	10	Dimethyl Phthalate	ND<20	2.0	10
4,6-Dinitro-2-methylphenol	ND<100	2.0	50	2,4-Dinitrophenol	ND<100	2.0	50
2,4-Dinitrotoluene	ND<20	2.0	10	2,6-Dinitrotoluene	ND<20	2.0	10
Di-n-octyl Phthalate	ND<20	2.0	10	1,2-Diphenylhydrazine	ND<20	2.0	10
Fluoranthene	ND<20	2.0	10	Fluorene	ND<20	2.0	10
Hexachlorobenzene	ND<20	2.0	10	Hexachlorobutadiene	ND<20	2.0	10
Hexachlorocyclopentadiene	ND<20	2.0	10	Hexachloroethane	ND<20	2.0	10
Indeno (1,2,3-cd) pyrene	ND<20	2.0	10	Isophorone	ND<20	2.0	10
2-Methylnaphthalene	ND<20	2.0	10	2-Methylphenol (o-Cresol)	ND<20	2.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND<20	2.0	10	Naphthalene	ND<20	2.0	10
2-Nitroaniline	ND<20	2.0	10	3-Nitroaniline	ND<100	2.0	50
4-Nitroaniline	ND<20	2.0	10	2-Nitrophenol	ND<20	2.0	10
4-Nitrophenol	ND<20	2.0	10	Nitrobenzene	ND<100	2.0	50
N-Nitrosodiphenylamine	ND<20	2.0	10	N-Nitrosodi-n-propylamine	ND<20	2.0	10
Pentachlorophenol	ND<100	2.0	50	Phenanthrene	ND<20	2.0	10
Phenol	ND<20	2.0	10	Polychlorinated Biphenyls (PCB)	ND<200	2.0	100
Pyrene	ND<20	2.0	10	1,2,4-Trichlorobenzene	ND<20	2.0	10
2,4,5-Trichlorophenol	ND<20	2.0	10	2,4,6-Trichlorophenol	ND<20	2.0	10

Surrogate Recoveries (%)

%SS:	53.2	%SS:	64.9
%SS:	67.8	%SS:	51.7
%SS:	75.9	%SS:	64.2

Comments: j

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

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

surrogate diluted out of range.

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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

Alpha Analytical Laboratories	Client Project ID: #A304575	Date Sampled: 04/22/03
208 Mason Street		Date Received: 04/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 04/29/03
	Client P.O.:	Date Analyzed: 05/03/03

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

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0304432

Lab ID	0304432-002A
Client ID	NW-1-6'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.6	5.0	0.33	Acenaphthylene	ND<1.6	5.0	0.33
Anthracene	ND<1.6	5.0	0.33	Benzidine	ND<1.6	5.0	0.33
Benzoic Acid	ND<8.0	5.0	1.6	Benz(a)anthracene	ND<1.6	5.0	0.33
Benzo(b)fluoranthene	ND<1.6	5.0	0.33	Benzo(k)fluoranthene	ND<8.0	5.0	1.6
Benzo(g,h,i)perylene	ND<1.6	5.0	0.33	Benzo(a)pyrene	ND<1.6	5.0	0.33
Benzyl Alcohol	ND<3.3	5.0	0.66	Bis (2-chloroethoxy) Methane	ND<1.6	5.0	0.33
Bis (2-chloroethyl) Ether	ND<1.6	5.0	0.33	Bis (2-chloroisopropyl) Ether	ND<1.6	5.0	0.33
Bis (2-ethylhexyl) Phthalate	ND<1.6	5.0	0.33	4-Bromophenyl Phenyl Ether	ND<1.6	5.0	0.33
Butylbenzyl Phthalate	ND<1.6	5.0	0.33	4-Chloroaniline	ND<3.3	5.0	0.66
4-Chloro-3-methylphenol	ND<1.6	5.0	0.33	2-Chloronaphthalene	ND<1.6	5.0	0.33
2-Chlorophenol	ND<1.6	5.0	0.33	4-Chlorophenyl Phenyl Ether	ND<1.6	5.0	0.33
Chrysene	ND<1.6	5.0	0.33	Dibenzo(a,h)anthracene	ND<1.6	5.0	0.33
Dibenzofuran	ND<1.6	5.0	0.33	Di-n-butyl Phthalate	ND<1.6	5.0	0.33
1,2-Dichlorobenzene	ND<1.6	5.0	0.33	1,3-Dichlorobenzene	ND<1.6	5.0	0.33
1,4-Dichlorobenzene	ND<1.6	5.0	0.33	3,3-Dichlorobenzidine	ND<3.3	5.0	0.66
2,4-Dichlorophenol	ND<1.6	5.0	0.33	Diethyl Phthalate	ND<1.6	5.0	0.33
2,4-Dimethylphenol	ND<1.6	5.0	0.33	Dimethyl Phthalate	ND<1.6	5.0	0.33
4,6-Dinitro-2-methylphenol	ND<8.0	5.0	1.6	2,4-Dinitrophenol	ND<8.0	5.0	1.6
2,4-Dinitrotoluene	ND<1.6	5.0	0.33	2,6-Dinitrotoluene	ND<1.6	5.0	0.33
Di-n-octyl Phthalate	ND<1.6	5.0	0.33	1,2-Diphenylhydrazine	ND<1.6	5.0	0.33
Fluoranthene	ND<1.6	5.0	0.33	Fluorene	ND<1.6	5.0	0.33
Hexachlorobenzene	ND<1.6	5.0	0.33	Hexachlorobutadiene	ND<1.6	5.0	0.33
Hexachlorocyclopentadiene	ND<1.6	5.0	0.33	Hexachloroethane	ND<8.0	5.0	1.6
Indeno (1,2,3-cd) pyrene	ND<1.6	5.0	0.33	Isophorone	ND<1.6	5.0	0.33
2-Methylnaphthalene	ND<1.6	5.0	0.33	2-Methylphenol (o-Cresol)	ND<1.6	5.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.6	5.0	0.33	Naphthalene	ND<1.6	5.0	0.33
2-Nitroaniline	ND<1.6	5.0	0.33	3-Nitroaniline	ND<8.0	5.0	1.6
4-Nitroaniline	ND<8.0	5.0	1.6	2-Nitrophenol	ND<8.0	5.0	1.6
4-Nitrophenol	ND<1.6	5.0	0.33	Nitrobenzene	ND<8.0	5.0	1.6
N-Nitrosodiphenylamine	ND<8.0	5.0	1.6	N-Nitrosodi-n-propylamine	ND<1.6	5.0	0.33
Pentachlorophenol	ND<8.0	5.0	1.6	Phenanthrene	ND<1.6	5.0	0.33
Phenol	ND<1.6	5.0	0.33	Polychlorinated Biphenyls (PCB)	ND<15	5.0	3.0
Pyrene	ND<1.6	5.0	0.33	1,2,4-Trichlorobenzene	ND<1.6	5.0	0.33
2,4,5-Trichlorophenol	ND<1.6	5.0	0.33	2,4,6-Trichlorophenol	ND<1.6	5.0	0.33

Surrogate Recoveries (%)

%SS1:	82.9	%SS2:	75.4
%SS3:	87.5	%SS4:	103
%SS5:	99.1	%SS6:	76.9

Comments: j

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

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

surrogate diluted out of range.

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

DHS Certification No. 1644
Tetra Tech/MFG, Inc.

Angela Rydelius, Lab Manager

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

Alpha Analytical Laboratories	Client Project ID: #A304575	Date Sampled: 04/22/03
208 Mason Street		Date Received: 04/29/03
Ukiah, CA 95482	Client Contact: Sheri Speaks	Date Extracted: 04/29/03
	Client P.O.:	Date Analyzed: 05/03/03

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

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0304432

Lab ID	0304432-003A
Client ID	SE-1-6'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	0.33
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	1.6
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	0.33	Hexachloroethane	ND	1.0	1.6
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	0.33	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	0.33	Nitrobenzene	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	1.6	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Polychlorinated Biphenyls (PCB)	ND	1.0	3.0
Pyrene	ND	1.0	0.33	1,2,4-Trichlorobenzene	ND	1.0	0.33
2,4,5-Trichlorophenol	ND	1.0	0.33	2,4,6-Trichlorophenol	ND	1.0	0.33

Surrogate Recoveries (%)

%SS1:	85.9	%SS2:	81.6
%SS3:	82.9	%SS4:	86.9
%SS5:	80.3	%SS6:	74.2

Comments:

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

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

surrogate diluted out of range.

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43292

Tetra Tech/MFG, Inc.

☑ 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: 1

SAMPLER (Signature): OnPlocher PROJECT MANAGER: Orrin Plocher DATE: 4/23/03

METHOD OF SHIPMENT: Lab 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	FILTRATION*	Containers VOLUME (ml/oz)	Containers TYPE*	Containers NO.	TEPH diesel/motor oil EPA 8015 silica gel	Oil and Grease EPA 1664	Semivols EPA 8270 + PCB & P, Creosote	TPH-gasoline 8020/EPA 8015	Wet metals Cd, Cr, Zn, Pb, Ni	RUSH* EPA 8260 VOCs	RUSH* EPA 8010/7421	STANDARD	Remarks
																				A304575
Tank Pit Water	4/22/03	1:30	Aq				V		1L	G	3	V	V	V					V	If PCB or PCP – 1
Tank Pit Water	4/23/03	1:30	Aq	V			V		40ml	G	3				V				V	detected in water –
Tank Pit water	4/22/03	1:30	Aq		V		V	V	1pt	P	1					V			V	or Soil Samples
NW-1-6'	4/22/03	12:58	So				V			OT	2	V	V	V	V	V	V		V	submit for – 2
SE-1-6'	4/22/03	12:53	So				V			OT	2	V	V	V	V	V	V		V	Dioxin/Furan – 3
Tank Pit Water	4/24/03	1:30	Aq	V			V		40ml	G	3						V		V	EPA 1613 – 4
NE-1-4'	4/24/03	11:05	So				V			OT	2	V	or		J				V	– 5
SW-1-4'	4/24/03	11:08	So				V			OT	2	V			V				V	– 6

TOTAL NUMBER OF CONTAINERS 7

LABORATORY COMMENTS/CONDITION OF SAMPLES Cooler Temp:

RELINQUISHED BY: SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	RECIEVED BY: SIGNATURE	PRINTED NAME	COMPANY
OnPlocher	Orrin Plocher	MFG, Inc	4/24/03	10:30	Stan Thiesen	Stan Thiesen	MFG, Inc.
Stan Thiesen	Stan Thiesen	MFG, Inc	4/24/03	12:10 PM	T Daly	T DALY	Alpha Labs
T Daly	T DALY	Alpha Labs	4/24/03	1540	Sharon Speaks	S. Speaks	Alpha LABORATORY 4-24-03 15:40

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

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

APPENDIX I

Waste Disposal Documentation

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD047403696 Manifest Document No. 95954 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Sierra Pacific Ind. 2593 New Navy Base Rd. Antioch CA 94518
A. State Manifest Document Number: 22095954
B. State Generator's ID:
4. Generator's Phone: 707 443 3111
5. Transporter 1 Company Name: Ecology Control Industries — 6. US EPA ID Number: CAD982030173 — C. State Transporter's ID [Reserved] — D. Transporter's Phone: 510-235-1393
7. Transporter 2 Company Name — 8. US EPA ID Number — E. State Transporter's ID [Reserved] — F. Transporter's Phone
9. Designated Facility Name and Site Address: Ecology Control Industries, 255 PARR BLVD, RICHMOND CA 94801 — 10. US EPA ID Number: CAD009466392 — G. State Facility's ID — H. Facility's Phone: 510-235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON RCRA HAZARDOUS WASTE SOLID (EMPTY STORAGE TANK)	001	TP	00800	P	State: 512 / EPA/Other: NONE
b.					State: / EPA/Other:
c.					State: / EPA/Other:
d.					State: / EPA/Other:

J. Additional Descriptions for Materials Listed Above: QTY 1 EMPTY STORAGE TANK #30631 TANKS HAVE BEEN INERTED WITH 15 LBS DRY ICE PER 1000 GALLONS CAPACITY

K. Handling Codes for Wastes Listed Above: a. 99 b. c. d.

15. Special Handling Instructions and Additional Information
Wear proper protective equipment while handling. Weights or volumes are approximate.
24 hour emergency number: 707 445-3930 SITE ADDRESS: Sierra Pacific 2593 New Navy Base Rd
24 hour emergency contact: Chris Hake ECI J/N 5270482

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
L. Chaney	L Chaney	04	24	03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jeffrey Webster	Jeffrey Webster	04	24	03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year
James Wilcox	James Wilcox	04	25	03

DO NOT WRITE BELOW THIS LINE.

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

GENERATOR

22095954

OTSC 8022A (1/99)
EPA 8700-22

White: [illegible] SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812