Attachment 1

Field Notes

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DAILY FIELD REPORT

Job No.: 003154		
Date: 1-21-04		
Project Name: FORMER SIMPSON REMAN	Client/Owner: SIMPSON	DFR Sequence No.: 1
		Day Of Week: WED
General Location Of Work: ARCATA	Owner/Client Representative: ROB RICCI	Project Engineer: FRANS LOWMAN
General Contractor: FISCH ENV.	Contractors Onsite	Supervisor: R. RUEBER
Type Of Work: SOIL / GW SAMPLING	Weather: CLEAR SUNNY 34→60°	Technician

8:00 ON-SITE - CHECKING LOCATIONS
8:30 SAFETY MEETING - FISCH TO FILL UP WATER TANK
CALIBRATE PID - 96 PPM ISOBUTYLENE THERMO 580B
9:30 FISH FINISHED TO INSIDE BUILDING

PID
9:45 : 0
10:20 : 0
10:50 : 0
12:50 : 0
5:20 : 0

9:45 @ DT-1 - CORE TO 8' DRIVE TO 11' - PURGE ~0.25 GAL
10:10 DECON
10:20 @ DT-3 CORE TO 8' DRIVE TO 11' - PURGE ~0.25 GAL
10:40 - COLLECT WATER SAMPLE - DECON
10:50 @ DT-2 - ~~DRIVE~~ CORE TO 8' DRIVE TO 11' PURGE ~0.25
11:20 FINISH - COLLECT DUPLICATE WATER SAMPLE - DECON
11:45 - 12:45 LUNCH
12:50 START @ SLR-1 - CORE TO 8' DRIVE TO 11'
COLLECT WATER SAMPLE - DECON - @ SHALLOW HOLE
CORE 20 - 28' SILT @ 27 - 28 DRIVE TO 36 W/ WATER SAMPLER
RETRACT - NO WATER LET SIT 5' MIN - NO WATER PULL
UP 2' & SIT 5 MIN NO WATER - DRIVE TO 63'
PUSH 36 - 59' HARDER 59-63 POSSIBLE SAND? LET
SET ~~MIN~~ LITTLE WATER IN SAMPLER.
15:20 TO SLR-2 CORE TO 8' DRIVE TO 11' COLLECT
SHALLOW WATER SAMPLE - DECON
15:50 TO SLR-3 CORE TO 8' DRIVE TO 12' COLLECT
SHALLOW WATER - DECON -
16:15 TO SLR-1 & COLLECT DEEP SAMPLE PURGE
~0.25 GAL - FILL BOTTLES & W/POINT DRY
16:45 TO LAB

Signature and Date	Copy given to:	Reported By:

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DAILY FIELD REPORT

		Job No.: 003154
		Date: 1-22-04
Project Name: FORMER SIMPSON REMAN	Client/Owner: SIMPSON	DFR Sequence No.: 2
		Day Of Week: THURS
General Location Of Work: ARCATA	Owner/Client Representative: ROB RICCI	Project Engineer: FRANS LOWMAN
General Contractor: FISCH ENV.	Contractors Onsite:	Supervisor: R. RUEBER
Type Of Work: SOIL / GW SAMPLING	Weather: SUNNY ~32 - 60°	Technician: J TYLER / A. MELODY

WORK AREA
PID
8:10 = 0
8:30 = 0
9:00 = 0
9:30 = 0
10:00 = 0
10:30 = 0
11:00 = 0
11:30 0
12:00 0
13:30 0
14:00 0
14:30 0
15:00 0
15:30 0
16:00 0

8:00 ON-SITE SAFETY MEETING - CALIBRATE PID 96 ppm
ISOBUTYLENE - BEGIN @ MW-8
CORE TO 18' W/ MACROCORE - DRILL TO ~25' W/ HSA
9:00 RWQCB (KASEY ASHLEY ON-SITE)
10:00 FINISH DRILLING & SETTING WELL RECON & CLEAN UP
10:20 START @ MW-7 MACROCORE TO 8'
WET @ 7.5'
10:45 RWQCB OFFSITE -
- FRANS SAID TO START SCREEN @ SLR-2
@ 30-40 & SEE IF WATER COMES IN
NO DEEPER THAN 40' - DO NOT SUBMIT
SLR-1D
11:45 FINISH @ MW-7 RECON & CLEAN UP
12:00 DRIVE @ SLR-2 TO 40'
SOFT @ ~30' TO 40' SCREEN 30-40'
LET SIT - TO LUNCH
13:30 CHECK SLR-2D - NO WATER - PULL OUT
14:00 DFISH OFFSITE - PICK SETTING BOXES
15:00 TO HOLD JOSH & AARON @ PORTIS PICE
16:45 OFFSITE

- MARKED WELLS IN STREET FOR SURVEY

3 DRUMS OF SOIL 2-MW-8 & 1 @ MW-7
~30 GAL OF RECON WATER IN DRUM SW CORNER
OF SMALL BLDG.

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DAILY FIELD REPORT

		Job No.: 003154
		Date: 1-22-04
Project Name: FORMER SIMPSON REMAN	Client/Owner: SIMPSON	DFR Sequence No.: 1
		Day Of Week: THURS
General Location Of Work: ARCATA	Owner/Client Representative: ROB RICCI	Project Engineer: FRANS LOWMAN
General Contractor: FISCH ENV.	Contractors Onsite:	Supervisor: R. RUEBER
Type Of Work: SOIL / GW SAMPLING	Weather: SUNNY 60°	Technician: J TYLER / A MELODY

1300 - ON site (from Lunch), unload truck + setup @ DDA-1
1415 - Begin augering DDA-1
- set WP w/ 5' Screen, sampled GW
- backfilled w/bentonite chips + hydrated
1500 - Begin augering DPA-2
set WP - 5' screen, sample GW
backfilled w/ bentonite + hydrated

1630 - off site

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DAILY FIELD REPORT

Job No. 003164			
Page of			
Project Name: Simpson Remon. Facility	Client/Owner: Simpson Timber Co.	Daily Field Report Sequence No	
General Location Of Work: Arcata, Ca.	Owner/Client Representative: Rod Ricci	Date: 2-3-4	Day Of Week: Tues
General Contractor: —	Grading Contractor	Project Engineer: Frans Lowman	
Type Of Work: Well Development	Grading Contractor, Superintendent, Or Foreman	Supervisor: Roland Rueber	
Source & Description Of Fill Material	Weather: calm	Technician: Josh Tyler	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

915 on site / setup, open up wells - Take waterlevels

1003 Begin Surging MW-7 with a 2" Surge block, starting @ 25' BGS and surging in 5' intervals for 5 minutes. Purged out 5 gallons using a Stainless Steel Bailer. Five casing volumes = 15.6 gal: 20.0 gallons were purged PH, EC, and temp stabalized. Total depth of MW-7 at the end of development was 24.05'

1120 Begin Surging MW-8 with a 2" Surge block, starting @ 25' BGS and surging in 5' intervals for 5 minutes. Purged out 5 gal. Using a stainless Steel Bailer. Five casing volumes = 16.25 gal: 38.0 gallons were purged - PH, EC, and temp stabalized. The Total depth of MW-8 at the end of development was 24.07'

Note each well was Notched on the southern side where the TD of the well was taken. All purge water was brought back to The SHN RWST. 75 gallons Total

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Water Sampling Data Sheet

Project Name:	Simpson Reman. Facility	Date/Time:	2-3-4
Project No.:	003154	Sampler Name:	JCT
Location:	Arcata, Ca.	Sample Type:	—
Well #:	MW-7	Weather	Calm
Hydrocarbon Thickness/Depth (feet):	—	Key Needed:	Yes

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
24.12	-	4.61	=	19.51	x	3.12	=	x5 = 15.6

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1003							5.0	Cloudy
1007				514	65.2	6.03	5.25	↓
1019				580	60.8	6.01	7.5	↓
1025				563	59.3	6.09	13.0	↓
1030				542	59.1	6.03	18.0	Purge Water Clearing
1036				529	59.0	5.99	23.0	↓
1041				519	59.2	5.95	28.0	↓
Recharged to 3.68 @ 1100				TD - 24.05				

Purge Method: SS Bailer / 1.5" Sub. pump

Total Volume Removed: 28.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses

Well Condition: Good

Remarks:

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Water Sampling Data Sheet

Project Name:	Simpson Remov. Facility	Date/Time:	2-3-4
Project No.:	603154	Sampler Name:	—
Location:	~~MW-8~~ Arcata, Ca.	Sample Type:	—
Well #:	MW-8	Weather	Calm
Hydrocarbon Thickness/Depth (feet):	—	Key Needed:	Yes

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
24.11	-	3.77	=	20.34	x	3.25	=	x5= 16.25

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1127							5.0	Cloudy
1130				739	61.9	5.94	5.25	
1141				734	62.6	6.17	7.5	
1146				721	61.3	6.06	13.0	
1152				697	61.7	6.05	18.0	
1157				664	61.7	6.02	23.0	clearing up
1202				597	62.0	6.04	28.0	
1207				560	62.0	6.04	33.0	
1212				542	61.9	6.02	38.0	
Recharged to	6.62 @ 1219			TD - 24.07				

Purge Method: Stainless Steel / 1.5" Sub. pump

Total Volume Removed: 38.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses

Well Condition: Good

Remarks:

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Groundwater Elevations

Job No.: 003154 Name: JCT

Client: Simpson Timber Co. Date: 2-3-4

Location: Arcata, Remanufacturing Facility Weather: Calm

Sample Location	Time of Reading	Top of Casing Elevation (feet)	Depth To Water (feet)	Water Surface Elevation (feet)
MW-7	920		4.61	
MW-8	925		3.77	

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DAILY FIELD REPORT

JOB NO 003154

PROJECT NAME: Simpson Reman Facility	CLIENT/OWNER: Simpson Timber Company	DAILY FIELD REPORT SEQUENCE NO: 1
GENERAL LOCATION OF WORK: Arcata, CA	OWNER/CLIENT REPRESENTATIVE: Rob Ricci	DATE: 2-5-04 / DAY OF WEEK: Thursday
TYPE OF WORK: Quarterly Sampling	WEATHER: Hazy clear	PROJECT ENGINEER/ SUPERVISOR: Frans Lowman/Roland Rutben
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

0847 Arrived at site with Josh Tyler, removed lids and caps on all 8 wells mw-4, 1, 7, 5, and 6 all had water in flush mount, bailed out. mw-2, 4, 1, 5 and 6 had pressure or vacuum, will let stablize

0931 Josh started taking water levels deconing the sounder after each well by scrubbing it with liquinox then rinsed it with DI water, decon water was caught in a small wash tub.

0932 I started taking Total depth's with a steel tape wiping it dry after each well with a towel.

1007 Josh started taking DO readings

1018 I started purging mw-6 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.

1057 I started purging mw-5 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
Josh started purging mw-1 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.

1140 I sampled mw-6 with its disposable bailer, secured well with cap and lid.

1155 I sampled mw-5 with its disposable bailer, secured well with cap and lid.

1200 Josh sampled mw-1 with its disposable bailer, secured well with cap and lid.

1225 I started purging mw-2 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.

1245 Josh started purging mw-4 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.

1300 I sampled mw-2 with its disposable bailer, secured well with cap and lid.

1310 Josh sampled mw-4 with its disposable bailer, secured well with cap and lid.

1310 I started purging mw-3 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.

1400 I sampled mw-3 with its disposable bailer, secured well with cap and lid. DUP sample came out of this well mw-3.

1412 Josh started purging mw-7 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.

1414 I started purging mw-8 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.

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REPORTED BY: David R. Paine

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Groundwater Elevations

Job No.: 003154 Name: David R. Paine

Client: SIMPSON TIMBER COMPANY Date: 2-5-04

Location: ARCATA, CA Weather: Hazy Clear

Sample Location	Time of Reading	Top of Casing Elevation (feet)	Depth To Water (feet)	Water Surface Elevation (feet)
MW-1	0936	20.69	3.13	17.56
MW-2	0944	22.10	4.53	17.57
MW-3	0947	22.85	5.04	17.81
MW-4	0946	22.48	4.57	17.91
MW-5	0934	21.82	4.20	17.62
MW-6	0931	23.03	5.13	17.90
MW-7	0954	21.48	3.84	17.64
MW-8	0956	21.56	3.93	17.63

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EQUIPMENT CALIBRATION SHEET

Name: David R. Paine

Project Name: Simpson Reman Facility

Reference No.: 003154

Date: 2-5-04

Equipment: [X] pH & EC [ ] PID [ ] $GTCO_2$ [ ] GTLEL
[ ] Turbidity [X] Other Dissolved Oxygen meter

Description of Calibration Procedure and Results:

pH + EC meter calibrated using a 2 buffer method with a pH 7.00 and 4.01, meter was set exactly to 7.00 and 4.01 and conductivity was set at 700 umhos.

DO meter is self calibrating with the Altimeter set at 0.

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Water Sampling Data Sheet

Project Name: Simpson Reman Facility
Date/Time: 2-5-04
Project No.: 003154
Sampler Name: David R. Paine
Location: Arcata, CA
Sample Type: Ground water
Well #: MW-1
Weather: calm Hazy clear
Hydrocarbon Thickness/Depth (feet): —
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
24.95	-	3.13	=	21.82	x	0.163	=	3.56

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1027	1.34						0 gal.	
1131	↓	100	301				0.25 gal.	
1135				276	57.5°	6.11	3.25 gal.	
1142	No Flow			277	57.7°	6.13	7.50 gal.	
1147	thru cell			275	57.4°	6.14	10.75 gal.	
1200	Sample Time							

Purge Method: Hand bail
Total Volume Removed: 10.75 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-1	3 - 40 ml VOA's	YES HCL	NCL	8260 list 9
MW-1	125 ml br. glass	No	NCL	PCP/TCP
MW-1	1 Liter brown	No	NCL	Phenols by 8270

Well Condition:

Remarks: Recharged to 3.14 at sample Time - 1200

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Water Sampling Data Sheet

Project Name:	Simpson Reman Facility	Date/Time:	2-5-04
Project No.:	003154	Sampler Name:	David R. Paine
Location:	Arcata, CA	Sample Type:	Ground water
Well #:	MW-2	Weather	
Hydrocarbon Thickness/Depth (feet):		Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
25.10	-	4.53	=	20.57	x	0.163	=	3.35

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1041	9.89						0 gal.	
1225	↓	25	296				0.25 gal.	
1232				120	58.3°	5.89	3.50 gal.	
1238	No Flow			122	58.4°	5.85	7 gal.	
1250	thru cell			122	58.2°	5.76	10.25 gal.	
1300	Sample Time							

Purge Method: Hand bail

Total Volume Removed: 10.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-2	3-40 ml VOA's	YES HCL	NCL	8260 list 9
MW-2	125 ml br. glass	No	NCL	PCP/TCP
MW-2	1 Liter brown	No	NCL	Phenols by 8270

Well Condition:

Remarks: Recharged to 4.56 at sample Time

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Water Sampling Data Sheet

Project Name:	Simpson Reman Facility	Date/Time:	2-5-04
Project No.:	003154	Sampler Name:	David R. Paine
Location:	Arcata, CA	Sample Type:	Ground water
Well #:	MW-3	Weather	Hazy clear
Hydrocarbon Thickness/Depth (feet):		Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
25.25	-	5.04	=	20.21	x	0.163	=	3.29

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1056	5.98						0 gal.	
1310		30	-116				0.25 gal.	
1320				127	60.1°	5.77	3.50 gal.	
1326	No Flow			150	59.9°	5.86	7 gal.	
1333	thru cell			165	60.0°	5.93	10 gal.	
1339				175	60°	5.96	13.50 gal.	
1345				179	60.3°	5.96	17 gal.	
1400	Sample Time							

Purge Method: Hand bail

Total Volume Removed: 17.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-3	3 - 40 ml VOA's	YES HCL	NCL	8260 list 9
MW-3	125 ml br. glass	No	NCL	PCP/TCP
MW-3	1 Liter brown	No	NCL	Phenols by 8270

Well Condition:

Remarks: DUP

Recharged to 5.09 at sample Time.

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Water Sampling Data Sheet

Project Name: Simpson Reman Facility
Date/Time: 2-5-04
Project No.: 003154
Sampler Name: David R. Paine
Location: Arcata, CA
Sample Type: Ground water
Well #: MW-4
Weather: calm
Hydrocarbon Thickness/Depth (feet): —
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
25.28	-	4.57	=	20.71	x	0.163	=	3.38

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1019	5.63						0 gal.	
1245	↓	50	298				0.25 gal.	
1250				158	58.4°	5.85	3.50 gal.	
1258	No Flow			159	59.4°	5.92	7 gal.	
1304	thru cell			164	59.5°	5.90	10.25 gal.	
1310	Sample Time							

Purge Method: Hand bail
Total Volume Removed: 10.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-4	3 - 40 ml VOA's	YES HCL	NCL	8260 list 9
MW-4	125 ml br. glass	No	NCL	PCP/TCP
MW-4	1 Liter brown	No	NCL	Phenols by 8270

Well Condition:

Remarks: Recharged to 4.61 at sample Time 1310

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Water Sampling Data Sheet

Project Name:	Simpson Reman Facility	Date/Time:	2-5-04
Project No.:	003154	Sampler Name:	David R. Paine
Location:	Arcata, CA	Sample Type:	Ground water
Well #:	MW-5	Weather	Hazy clear
Hydrocarbon Thickness/Depth (feet):		Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
24.27	-	4.20	=	20.07	x	0.163	=	3.27

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1020	1.37						0 gal.	
1057	↓	80	323				0.25 gal.	
1105				263	58.7°	5.87	3.50 gal.	
1112	No Flow			264	59°	5.94	7.25 gal.	
1119	thru cell			264	58.9°	5.93	10 gal.	
1155	Sample Time							

Purge Method: Hand bail

Total Volume Removed: 10.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-5	3 - 40 ml VOA's	YES HCL	NCL	8260 list 9
MW-5	125 ml br. glass	No	NCL	PCP/TCP
MW-5	1 Liter brown	No	NCL	Phenols by 8270

Well Condition:

Remarks: Recharged to 4.22 at sample Time

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Water Sampling Data Sheet

Project Name: Simpson Reman Facility
Date/Time: 2-5-04
Project No.: 003154
Sampler Name: David R. Paine
Location: Arcata, CA
Sample Type: Ground water
Well #: MW-6
Weather: Hazy clear
Hydrocarbon Thickness/Depth (feet):
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
25.10	-	5.13	=	19.97	x	0.163	=	3.26

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1012	3.36						0 gal	
1018	↓	70	332				0.25 gal	
1029				195	56.8°	5.80	3.50 gal.	
1037	No Flow			186	56.8°	5.74	7 gal.	
1044	thru cell			185	56.9°	5.74	10 gal.	
1140	Sample Time							

Purge Method: Hand bail
Total Volume Removed: 10.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-6	3 - 40 ml VOA's	YES HCL	NCL	8260 list 9
MW-6	125 ml br. glass	No	NCL	PCP/TCP
MW-6	1 Liter brown	No	NCL	Phenols by 8270

Well Condition:

Remarks: Recharged to 5.18 at sample Time

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Water Sampling Data Sheet

Project Name: Simpson Reman Facility
Date/Time: 2-5-04
Project No.: 003154
Sampler Name: David R. Paine
Location: Arcata, CA
Sample Type: Ground water
Well #: MW-7
Weather: Hazy clear
Hydrocarbon Thickness/Depth (feet):
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
24.05	-	3.84	=	20.21	x	0.163	=	3.29

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1107	1.29						0 gal.	
1422	↓	120	245				0.25 gal.	
1416	↓			552	58.1°	6.41	3.50 gal.	
1422	No Flow			520	58.8°	6.24	7 gal.	
1429	thru cell			501	58.5°	6.22	10 gal.	
1440	Sample Time							

Purge Method: Hand bail
Total Volume Removed: 10.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-7	3 - 40 ml VOA's	YES HCL	NCL	8260 list 9
MW-7	125 ml br. glass	No	NCL	PCP/TCP
MW-7	1 Liter brown	No	NCL	Phenols by 8270

Well Condition:

Remarks:

Recharged to 4.22 at sample Time 1440

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Water Sampling Data Sheet

Project Name: Simpson Reman Facility
Date/Time: 2-5-04
Project No.: 003154
Sampler Name: David R. Paine
Location: Arcata, CA
Sample Type: Ground water
Well #: MW-8
Weather: Hazy clear
Hydrocarbon Thickness/Depth (feet): —
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
24.08	-	3.93	=	20.15	x	0.163	=	3.28

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1114	1.33						0 gal.	
1414	↓	120	219				0.25 gal.	
1420				573	59.4°	6.16	3.50 gal.	
1427	No Flow			509	59.4°	6.13	7 gal.	
1433	thru cell			448	59.8°	6.13	10 gal.	
1439				459	59.5°	6.19	13.50 gal.	
1445				424	59.6°	6.18	17 gal.	
1455	Sample Time							

Purge Method: Hand bail
Total Volume Removed: 17.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-8	3-40 ml VOA's	YES HCL	NCL	8260 list 9
MW-8	125 ml br. glass	No	NCL	PCP/TCP
MW-8	1 Liter brown	No	NCL	Phenols by 8270

Well Condition:

Remarks: Recharged to 4.35 at sample Time

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812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 •E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 003154

PROJECT NAME: Simpson Reman Facility	CLIENT/OWNER: Simpson Timber Company	DAILY FIELD REPORT SEQUENCE NO: 1
GENERAL LOCATION OF WORK: Arcata, CA	OWNER/CLIENT REPRESENTATIVE: Rob Ricci	DATE: 2-5-04 / DAY OF WEEK: Thursday
TYPE OF WORK: Quarterly Sampling	WEATHER: Hazy clear	PROJECT ENGINEER/ SUPERVISOR: Frans Lowman/Roland Reuben
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

1440 Josh sampled MW-7 with its disposable bailer, secured well with cap and lid.
1455 I sampled MW-8 with its disposable bailer, secured well with cap and lid.
1504 OFF SITE

Note All decon water and purge water including the 55 gal. steel drum that was left on site from the well installation was loaded into the trailer in a 50 gal. plastic drum and the 55 gal. steel drum and 7 5 gal. buckets with lids then transported to SHN's 1,000 gal. PWST located at 812 W. Wabash Avenue Eureka, CA 133 gallons total.

COPY GIVEN TO:

REPORTED BY: David R. Paine

Attachment 2

Soil Boring Logs and Survey Data

Consulting Engineers & Geologists, Inc.
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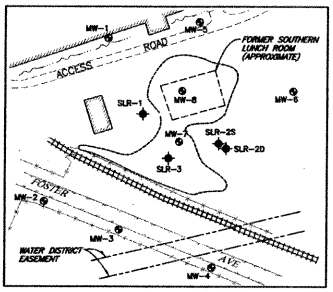
SOIL BORING LOG
SLR-1



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe
SAMPLER TYPE: Macro Core
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 63.0 Feet BGS/ (Varies)
SCREEN INTERVAL: Multiple
DEPTH TO FIRST WATER: ~6.0 Feet BGS
STABILIZED WATER LEVEL: ~4.5 Feet BGS
DATE: 01/21/04

Elev. (Feet MSL) DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA READING (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING	SAMPLE: LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
0								Asphalt with baserock		
20		50				ML		SILT, sandy, fine, moist, medium brown, soft	Macro Core 0-8'	
		0				SM		SAND, fine, silty, light brown, moist, loose	gradational contact	Stainless Steel Drive Rod
5						GP/ GM		GRAVEL, fine, sandy, fine to coarse, with silt, wet, dense, medium brown to reddish brown		1" Stainless Steel Screen (5-9')
15		0				SM		SAND, fine to medium, silty, reddish brown, wet, medium dense	Drive to 9', open screen	
10										
10									Drive to 20'	
15										
5										
20						SP GP		SAND, medium to coarse, trace fine, trace silt, wet, medium dense, medium grey		Stainless Steel Drive Rod
0								GRAVEL, fine, trace coarse, well rounded (~90% sandstone, ~10% chert), sandy, fine to coarse, trace silt, wet, dense, medium grey	Macro Core 20-28'	
25						GM		GRAVEL, coarse, few fine, silty, sandy, fine, wet, dense, wood fragments at ~ 26.5'		
-5						ML		SILT, sandy, fine, tr. clay, sl. moist, stiff, med. grey		
30										
-10								Very soft 28-63'	Drive to 36', open screen, dry after sitting 1.5 hours	1" Stainless Steel Screen (32-36')
35										

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

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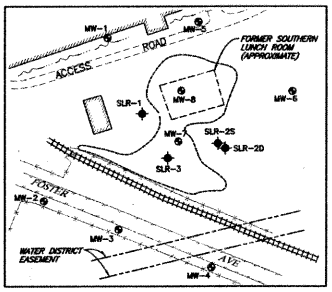
SOIL BORING LOG
SLR-1



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe
SAMPLER TYPE: Macro Core
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 63.0 Feet BGS/ (Varies)
SCREEN INTERVAL: Multiple
DEPTH TO FIRST WATER: ~6.0 Feet BGS
STABILIZED WATER LEVEL: ~4.5 Feet BGS
DATE: 01/21/04

Elev. (Feet MSL) DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA READING (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING	SAMPLE: LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
-15 / 40								Very soft 28-63'		Stainless Steel Drive Rod
-20 / 45										
-25 / 50										
-30 / 55										
-35 / 60								Becomes hard (dense)	Drive to 63', open screen, dry	1" Stainless Steel Screen (59-63')
-40 / 65								Total depth of boring = 63.0 Feet BGS Boring backfilled with neat cement 1/21/04		
-45 / 70										

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BORING LOG

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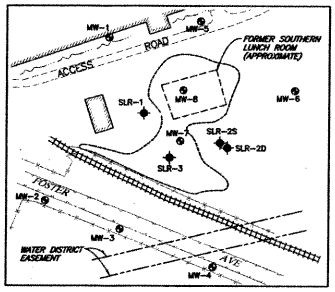
SOIL BORING LOG
SLR-2



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe
SAMPLER TYPE: Macro Core
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 8.0 / 11.0' Feet BGS
SCREEN INTERVAL: 7.0-11.0 Feet BGS
DEPTH TO FIRST WATER: ~7.75 Feet BGS
STABILIZED WATER LEVEL: ~4.5 Feet BGS
DATE: 01/21/04

Elev. (Feet MSL) / DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA READING (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING / LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
0		0	50		ML		SILT, with sand, fine, dark brown, slightly moist, soft, few roots throughout	Macro Core 0-8'	Stainless Steel Drive Rod
20		0	100		SM/ML		SAND, fine, silty/SILT, sandy, fine, trace clay, mottled light grey and light brown, moist, soft	gradational contact	
5		0							
15		0					Becomes wet		
							Total depth of boring = 10.0 Feet BGS Boring backfilled with bentonite 1/21/04	Drive to 11.0', open screen	1" Stainless Steel Screen (7-11')
10									
10									

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

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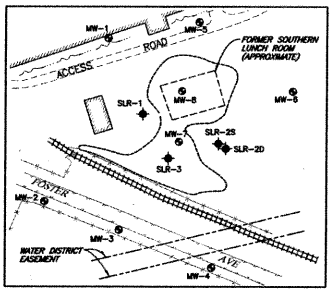
SOIL BORING LOG
SLR-2D



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe
SAMPLER TYPE: Stainless Steel Wellpoint
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 40.0 / 40.0' Feet BGS
SCREEN INTERVAL: 36.0-40.0 Feet BGS
DEPTH TO FIRST WATER: --
STABILIZED WATER LEVEL: --
DATE: 01/22/04

Elev. (Feet MSL)	DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA Reading (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING	SAMPLE: LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
20	0								No sampling 0-40'		
									Lithology from boring SLR-2		
15	5										
10	10										
5	15										
0	20										Stainless Steel Drive Rod
-5	25								Very soft 27-40'	Drive 27-40'	
-10	30										
-15	35									Dry hole (after waiting 1 hour)	1" Stainless Steel Screen (36-40')
-20	40								Total depth of boring = 40.0 Feet BGS Boring backfilled with neat cement 1/22/04		

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

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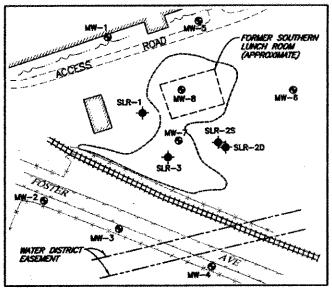
SOIL BORING LOG
SLR-3



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe
SAMPLER TYPE: Macro Core
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 8.0 / 11.0' Feet BGS
SCREEN INTERVAL: 7.0-11.0 Feet BGS
DEPTH TO FIRST WATER: --
STABILIZED WATER LEVEL: --
DATE: 01/21/04

Elev. (Feet MSL) DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA READING (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING	SAMPLE: LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
0								FILL, SILT, with sand, fine, slightly moist, medium dense, few roots		
20		0						FILL, SAND, clayey, light brown, dense, slightly moist	Macro Core 0-8'	
								FILL, SILT, as above, with wood debris		Stainless Steel Drive Rod
		0						FILL, clay, sandy, fine, light yellowish brown, slightly moist to moist, soft to medium stiff		
5										
15		0								
		0						7.0-7.5': Dark grey, soft, moist		1" Stainless Steel Screen (7-11')
								Total depth of boring = 8.0 Feet BGS Boring backfilled with bentonite 1/21/04	Drive to 11.0', open screen	
10										
10										

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

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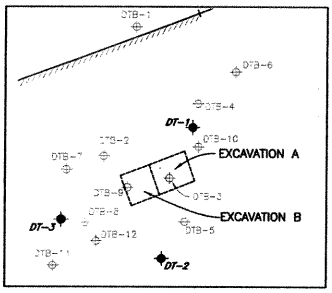
SOIL BORING LOG
DT-1



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe
SAMPLER TYPE: Macro Core
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 8.0 / 11.0' Feet BGS
SCREEN INTERVAL: 7.0-11.0 Feet BGS
DEPTH TO FIRST WATER: ~7.0 Feet BGS
STABILIZED WATER LEVEL: ~4.5' Feet BGS
DATE: 01/21/04

Elev. (Feet MSL) DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA READING (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING	SAMPLE: LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
0 / 0			50					Concrete (3" thick)		
								FILL, GRAVEL, fine, sandy, coarse to fine, medium brown to grey, slightly moist	Macro Core 0-8'	
						ML		SILT, trace clay and fine sand, dark grey, slightly moist, medium stiff, few roots	gradational contact	Stainless Steel Drive Rod
		185	75							
-5 / 5								Color change to dark brown, no roots		
		246				SM		SAND, fine to medium, silty, few fine gravel, light brown, medium dense, slightly moist, wet @ 7.0',		1" Stainless Steel Screen (7-11')
								Total depth of boring = 8.0 Feet BGS Boring backfilled with bentonite and capped with concrete 1/21/04	Drive to 11.0', open screen	
-10 / 10										

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

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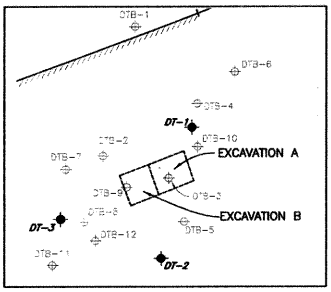
SOIL BORING LOG
DT-2



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe
SAMPLER TYPE: Macro Core
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 8.0 / 11.0' Feet BGS
SCREEN INTERVAL: 7.0-11.0 Feet BGS
DEPTH TO FIRST WATER: ~6.0 Feet BGS
STABILIZED WATER LEVEL: --
DATE: 01/21/04

Elev. (Feet MSL) DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA READING (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING	SAMPLE: LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
0 — 0			70					Concrete (3" thick)	Macro Core 0-8'	
								FILL, GRAVEL, fine to coarse, sandy, fine to coarse, slightly mosit, dense		
						ML		SILT, trace clay, with sand, fine, slightly moist, medium stiff, medium brown,	gradational contact	
		0	50			SM		SAND, fine to medium, silty, medium brown, slightly moist, medium dense	gradational contact	Stainless Steel Drive Rod
-5 — 5		0				GP/ GM		GRAVEL, fine, few coarse, well rounded, sandstone and chert clasts, sandy, fine to coarse, with silt, wet, dense, medium brown	gradational contact	
-10 — 10								Total depth of boring = 8.0 Feet BGS Boring backfilled with bentonite and capped with concrete 1/21/04	Drive to 11.0', open screen	1" Stainless Steel Screen (7-11')

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

Consulting Engineers & Geologists, Inc.

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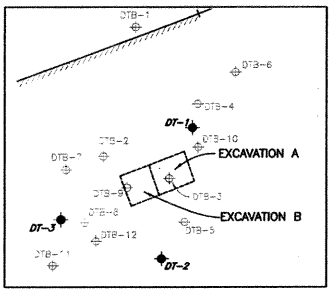
SOIL BORING LOG
DT-3



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe
SAMPLER TYPE: Macro Core
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 8.0 / 11.0' Feet BGS
SCREEN INTERVAL: 7.0-11.0 Feet BGS
DEPTH TO FIRST WATER: ~6.5 Feet BGS
STABILIZED WATER LEVEL: ~4.6 Feet BGS
DATE: 01/21/04

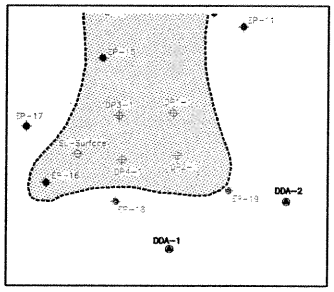
Elev. (Feet MSL) / DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA READING (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING / LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
0 — 0			75				Concrete (3" thick)	Macro Core 0-8'	
							FILL, GRAVEL, fine to coarse, sandy, fine to coarse, slightly moist, dense		
					ML		SILT, trace clay and fine sand, slightly moist, medium stiff, medium brown,	gradational contact	Stainless Steel Drive Rod
		0					Becomes moist, soft		
			75				Becomes slighlty moist, medium dense		
-5 — 5									
		0			GP/ GW		GRAVEL, fine to coarse, sandy, medium to coarse, silty, moist, medium dense, medium brown	gradational contact	
							Total depth of boring = 8.0 Feet BGS Boring backfilled with bentonite and capped with concrete 1/21/04	Drive to 11.0', open screen	1" Stainless Steel Screen (7-11')
-10 — 10									

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

Consulting Engineers & Geologists, Inc.
812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

SOIL BORING LOG
DDA-1



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: Hand Auger
SAMPLER TYPE: NA
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 7.75 / 8.15' Feet BGS
SCREEN INTERVAL: 3.15-8.15 Feet BGS
DEPTH TO FIRST WATER: ~7.0 Feet BGS
STABILIZED WATER LEVEL: ~5.7 Feet BGS
DATE: 01/22/04

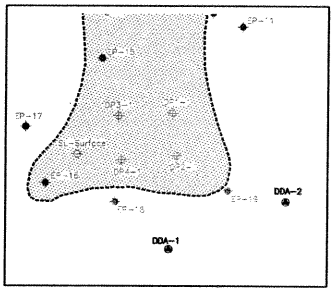
DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA READING (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING	SAMPLE: LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
0						ML		SILT, trace fine sand and clay, damp, dark brown, fine organics (~10-15%)		1" SCH 40 PVC Blank
								SILT, clayey, with sand, coarse, with gravel, fine to coarse, rounded, slightly moist, medium stiff,	gradational contact	
5						ML/CL		SILT/CLAY, sandy, fine to coarse, with gravel, fine to coarse, rounded, slightly moist, medium stiff, mottled light grey and brown with orange specks	gradational contact	1" SCH 40 PVC Screen
						SW		SAND, medium to coarse, trace medium gravel and silt, light greyish brown, wet, loose		
								Total depth of boring = 7.75 Feet BGS Boring backfilled with bentonite 1/22/04		
10										

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

Consulting Engineers & Geologists, Inc.
812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

SOIL BORING LOG
DDA-2



PROJ. NAME: Former Simpson Reman
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: Hand Auger
SAMPLER TYPE: NA
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
DEPTH OF BORING/WELL: 8.0 / 8.5' Feet BGS
SCREEN INTERVAL: 3.5-8.5 Feet BGS
DEPTH TO FIRST WATER: ~6.75 Feet BGS
STABILIZED WATER LEVEL: ~6.2 Feet BGS
DATE: 01/22/04

DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA READING (ppm)	SAMPLE: % RECOVERY	SAMPLE: DRILLING / LABORATORY	USCS	LITHOLOGY	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
0					ML		SILT, sandy, very fine, medium brown, damp, medium stiff		
					SM		SAND, very fine to fine, with silt, medium brown, slightly moist, medium dense	gradational contact	1" SCH 40 PVC Blank
5	▼								1" SCH 40 PVC Screen
					GW		GRAVEL, fine to coarse, sandy, medium, brown, loose, wet	gradational contact	
							Auger refusal in gravels Total depth of boring = 8.0 Feet BGS Boring backfilled with bentonite 1/22/04		
10									

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

Consulting Engineers & Geologists, Inc.

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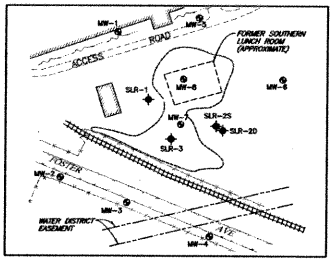
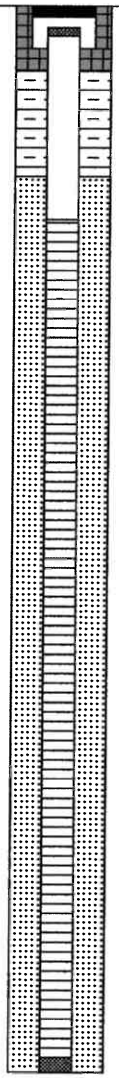
MONITORING WELL LOG
MW-7



PROJ. NAME: Former Simpson Remand
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe/HSA
SAMPLER TYPE: Macro Core
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
TOC ELEVATION: 21.48 Feet MSL
DEPTH OF BORING/WELL: 25.0 / 25.0 Feet MSL
DEPTH TO FIRST WATER: ~7.5 Feet BGS
SCREEN INTERVAL: 5.0-25.0 Feet BGS
DATE: 1/22/04

ELEV. (Feet MSL) DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA Reading (ppm)	SAMPLE: Recovery (%) / BLOWS / 6"	SAMPLE: DRILLING	SAMPLE: LABORATORY	USCS	SOIL DESCRIPTION	REMARKS	MONITORING WELL CONSTRUCTION
0							FILL/SILT, sandy, fine, few gravel, light grey and brown, slightly moist, medium stiff	Macro Core 0-8.0'	Flushmount Christy Box Locking Cap Concrete
20									Bentonite Chips
	▼	0						DTW=3.84 Feet BGS (2/5/04)	2" SCH 40 PVC Blank
5									
15							FILL/SAND, fine, moist, soft to stiff, light brown and light grey, wet at 7.5'		
	▽	0							
							Total depth of Macro Core = 8.0'		
10									
10		0							
									2/12 Monterey Sand
15									
5									2" SCH 40 PVC Screeen (0.010 slot)
20									
0									
25									Threaded PVC End Cap
5									



The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

Consulting Engineers & Geologists, Inc.

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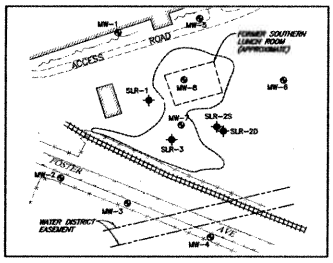
MONITORING WELL LOG
MW-8



PROJ. NAME: Former Simpson Remand
PROJ. NUMBER: 003154
DRILLER: Fisch Environmental
DRILLING METHOD: GeoProbe/HSA
SAMPLER TYPE: Macro Core
LOGGED BY: R. Rueber

LOCATION: Arcata, CA
TOC ELEVATION: 21.56 Feet MSL
DEPTH OF BORING/WELL: 25.0 / 25.0 Feet MSL
DEPTH TO FIRST WATER: ~9.5 Feet BGS
SCREEN INTERVAL: 5.0-25.0 Feet BGS
DATE: 1/22/04

ELEV. (Feet MSL) DEPTH (Feet BGS)	WATER LEVEL	SAMPLE: OVA Reading (ppm)	SAMPLE: Recovery (%) / BLOWS / 6"	SAMPLE: DRILLING	SAMPLE: LABORATORY	USCS	SOIL DESCRIPTION	REMARKS	MONITORING WELL CONSTRUCTION
0							FILL/SILT, sandy, fine, few gravel, fine , rounded, slightly moist, dark grey to black, medium stiff	Macro Core 0-12.0'	Flushmount Christy Box Locking Cap Concrete
20									Bentonite Chips
	▼	0						DTW=3.93 Feet BGS (2/5/04)	2" SCH 40 PVC Blank
5									
15									
		0							
							FILL/CLAY, with sand, fine, light brown and light grey, moist, soft to stiff, wet @9.5'		
10									
10		0							
							Total depth of Macro Core = 12.0'		
15									2/12 Monterey Sand
5									
									2" SCH 40 PVC Screeen (0.010 slot)
20									
0									
25									Threaded PVC End Cap
5									

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

CRJ. ⊼ ⊽
D. Tibbets ∅

3-4-04

Glass Rod
Liete 82A

(3)

BOOK E-04-01

SIMPSON RE-MAN. / SUN VALLEY BUILD
#003154

RUN WEST FROM SITE TO AERIAL TARGET #5 PER SHN #

STA.	+	HI	ROD	−	EL.
CP2	5.425	28.50			23.075.
TP A	3.815	26.165		6.15	22.35.
AT #5	6.145	27.145		5.165	21.00
TP A	6.355	28.710		4.79	22.355.
CP 2				5.635	23.075.
	21.740 ✓	Δ = 0.000		21.740 ✓	

TIE WELLS ALONG ROAD

CP2	4.575	27.650.			23.075.
MW 2	GND		= Rim ±		
	Rim		4.79		22.86
	TOC		5.555		22.095.
MW 3	GND		= Rim ±		
	RIM		4.56		23.09
	TOC	*	~~4.79~~ 4.00		22.85.
MW 4	GND		= Rim ±		2
	RIM		4.98		22.67
	TOC	*	~~5.16~~ 5.17		22.48
TP B	4.31	27.49.		4.47	23.18.
CP2				4.415	23.075.
	8.885 ✓	Δ = 0.000'		8.885 ✓	

PK + SHINER ± 3' S/O N.E.P.
PAINT SPOT ± 1' S/O N. E.P.
Held ← PK + SHINER @ PAINTED "X" ± 3' S/O N. E.P.
AT #5 = PT. #205 FROM JOB 095228
ELEV = NGVD 29 PER TIES TO CITY MON @ STEWART + CHESTNUT

SHOT TOP OF ORANGE + PLUG +
* = ADDED 0.01 TO ROD READING.
MW 2 + 6 SHOT TOC DIRECTLY.

TOP OF N'LY RAIL @ RAILWAY GATE
(23.075)

SIMPSON 00315 & Cont.

STA.	+	HI	ROD	−	EL.	
TP B	3.55	26.73			23.18	
SLR 1			4.77		21.96	
SLR 3			5.42		21.31	
SLR 2			4.58		22.15	
MW 7 RIM			4.965		21.765	
TOC			*5.25		21.480	
MW 8 RIM			4.86		21.870	
TOC			*5.175		21.555	
MW-1 RIM			5.44		21.290	
TOC			*6.04		20.690	
MW-5 RIM			4.50		22.23	
TOC	6.335*	28.152		*4.93	21.817	
MW-6 RIM			4.56		23.592	
TOC	5.012	28.039		5.125	23.027	
MW5 TOC	4.718*	26.535		*6.222	21.817	
MW1 TOC			5.847*		20.688	(20.690)
MW 8 TOC			4.978*		21.557	(21.555)
MW 7 TOC			5.055*		21.480	(21.480)
TP B	19.615	Δ = .005		3.35 19.61	23.185	(23.18)

= END =

Attachment 3

Laboratory Analytical Reports

REC'D JAN 29 2004

NORTH COAST LABORATORIES LTD.

January 28, 2004

SHN Consulting Engineers and Geologists
812 West Wabash Avenue
Eureka, CA 95501

Attn: Frans Lowman

RE: 003154, Former Simpson Reman

Order No.: 0401389
Invoice No.: 39763
PO No.:
ELAP No. 1247-Expires July 2004

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SLR-1S
01B	SLR-1S
02A	SLR-2S
02B	SLR-2S
03A	SLR-3S
03B	SLR-3S

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s) | QA Unit | Jesse G. Chaney, Jr. Laboratory Director

5680 West End Road • Arcata California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Printed on Recycled Paper

North Coast Laboratories, Ltd. **Date:** *28-Jan-04*

CLIENT: SHN Consulting Engineers and Geologists
Project: 003154, Former Simpson Reman
Lab Order: 0401389

CASE NARRATIVE

Gasoline Components/Additives:
The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were above the upper acceptance limit for bromomethane. These recoveries indicate that the sample results may be erroneously high. There were no detectable levels of the analyte in the samples; therefore, the data were accepted.

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Date: 28-Jan-04
WorkOrder: 0401389

ANALYTICAL REPORT

Client Sample ID: SLR-1S **Received:** 1/21/04 **Collected:** 1/21/04 13:10
Lab ID: 0401389-01A

Test Name: Penta- and Tetrachlorophenol **Reference:** Canadian Pulp Report

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Tetrachlorophenol	ND	1.0	µg/L	1.0	1/22/04	1/26/04
Pentachlorophenol	ND	0.30	µg/L	1.0	1/22/04	1/26/04
Surrogate: Dibromophenol	104	69.7-119	% Rec	1.0	1/22/04	1/26/04

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Date: 28-Jan-04
WorkOrder: 0401389

ANALYTICAL REPORT

Client Sample ID: SLR-1S **Received:** 1/21/04 **Collected:** 1/21/04 13:10
Lab ID: 0401389-01B

Test Name: EPA 8260 **Reference:** EPA 5030B/8260B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chloromethane	ND	2.0	µg/L	1.0		1/22/04
Vinyl chloride	ND	1.0	µg/L	1.0		1/22/04
Bromomethane	ND	1.0	µg/L	1.0		1/22/04
Chloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichlorofluoromethane	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Methylene chloride	ND	2.0	µg/L	1.0		1/22/04
trans-1,2-Dichloroethene	2.6	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,2-Dichloroethene	16	1.0	µg/L	1.0		1/22/04
Chloroform	ND	1.0	µg/L	1.0		1/22/04
Carbon Tetrachloride	ND	1.0	µg/L	1.0		1/22/04
1,1,1-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Benzene	ND	0.50	µg/L	1.0		1/22/04
1,2-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichloropropane	ND	1.0	µg/L	1.0		1/22/04
Bromodichloromethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
Toluene	ND	0.50	µg/L	1.0		1/22/04
Tetrachloroethene	ND	1.0	µg/L	1.0		1/22/04
trans-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
1,1,2-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Dibromochloromethane	ND	1.0	µg/L	1.0		1/22/04
Chlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Ethylbenzene	ND	0.50	µg/L	1.0		1/22/04
m,p-Xylene	0.55	0.50	µg/L	1.0		1/22/04
o-Xylene	ND	0.50	µg/L	1.0		1/22/04
Bromoform	ND	1.0	µg/L	1.0		1/22/04
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1.0		1/22/04
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Surrogate: 1,2-Dichloroethane-d4	108	80-120	% Rec	1.0		1/22/04
Surrogate: 1,4-Dichlorobenzene-d4	95.7	80-120	% Rec	1.0		1/22/04
Surrogate: Dibromofluoromethane	107	80-120	% Rec	1.0		1/22/04
Surrogate: Toluene-d8	95.6	80-120	% Rec	1.0		1/22/04

NORTH COAST LABORATORIES
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Date: 28-Jan-04
WorkOrder: 0401389

ANALYTICAL REPORT

Client Sample ID: SLR-2S **Received:** 1/21/04 **Collected:** 1/21/04 15:25
Lab ID: 0401389-02A

Test Name: Penta- and Tetrachlorophenol **Reference:** Canadian Pulp Report

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Tetrachlorophenol	ND	1.0	µg/L	1.0	1/22/04	1/26/04
Pentachlorophenol	ND	0.30	µg/L	1.0	1/22/04	1/26/04
Surrogate: Dibromophenol	91.9	69.7-119	% Rec	1.0	1/22/04	1/26/04

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Date: 28-Jan-04
WorkOrder: 0401389

ANALYTICAL REPORT

Client Sample ID: SLR-2S **Received:** 1/21/04 **Collected:** 1/21/04 15:25
Lab ID: 0401389-02B

Test Name: EPA 8260 **Reference:** EPA 5030B/8260B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chloromethane	ND	2.0	µg/L	1.0		1/22/04
Vinyl chloride	ND	1.0	µg/L	1.0		1/22/04
Bromomethane	ND	1.0	µg/L	1.0		1/22/04
Chloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichlorofluoromethane	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Methylene chloride	ND	2.0	µg/L	1.0		1/22/04
trans-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,2-Dichloroethene	2.8	1.0	µg/L	1.0		1/22/04
Chloroform	ND	1.0	µg/L	1.0		1/22/04
Carbon Tetrachloride	ND	1.0	µg/L	1.0		1/22/04
1,1,1-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Benzene	ND	0.50	µg/L	1.0		1/22/04
1,2-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichloropropane	ND	1.0	µg/L	1.0		1/22/04
Bromodichloromethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
Toluene	ND	0.50	µg/L	1.0		1/22/04
Tetrachloroethene	ND	1.0	µg/L	1.0		1/22/04
trans-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
1,1,2-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Dibromochloromethane	ND	1.0	µg/L	1.0		1/22/04
Chlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Ethylbenzene	ND	0.50	µg/L	1.0		1/22/04
m,p-Xylene	ND	0.50	µg/L	1.0		1/22/04
o-Xylene	ND	0.50	µg/L	1.0		1/22/04
Bromoform	ND	1.0	µg/L	1.0		1/22/04
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1.0		1/22/04
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Surrogate: 1,2-Dichloroethane-d4	108	80-120	% Rec	1.0		1/22/04
Surrogate: 1,4-Dichlorobenzene-d4	97.2	80-120	% Rec	1.0		1/22/04
Surrogate: Dibromofluoromethane	109	80-120	% Rec	1.0		1/22/04
Surrogate: Toluene-d8	96.6	80-120	% Rec	1.0		1/22/04

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Date: 28-Jan-04
WorkOrder: 0401389

ANALYTICAL REPORT

Client Sample ID: SLR-3S **Received:** 1/21/04 **Collected:** 1/21/04 16:10
Lab ID: 0401389-03A

Test Name: Penta- and Tetrachlorophenol **Reference:** Canadian Pulp Report

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Tetrachlorophenol	ND	1.0	µg/L	1.0	1/22/04	1/26/04
Pentachlorophenol	ND	0.30	µg/L	1.0	1/22/04	1/26/04
Surrogate: Dibromophenol	91.2	69.7-119	% Rec	1.0	1/22/04	1/26/04

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Date: 28-Jan-04
WorkOrder: 0401389

ANALYTICAL REPORT

Client Sample ID: SLR-3S **Received:** 1/21/04 **Collected:** 1/21/04 16:10
Lab ID: 0401389-03B

Test Name: EPA 8260 **Reference:** EPA 5030B/8260B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chloromethane	ND	2.0	µg/L	1.0		1/22/04
Vinyl chloride	3.7	1.0	µg/L	1.0		1/22/04
Bromomethane	ND	1.0	µg/L	1.0		1/22/04
Chloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichlorofluoromethane	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Methylene chloride	ND	2.0	µg/L	1.0		1/22/04
trans-1,2-Dichloroethene	4.1	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,2-Dichloroethene	200	10	µg/L	10		1/27/04
Chloroform	ND	1.0	µg/L	1.0		1/22/04
Carbon Tetrachloride	ND	1.0	µg/L	1.0		1/22/04
1,1,1-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Benzene	3.8	0.50	µg/L	1.0		1/22/04
1,2-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichloropropane	ND	1.0	µg/L	1.0		1/22/04
Bromodichloromethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
Toluene	ND	0.50	µg/L	1.0		1/22/04
Tetrachloroethene	ND	1.0	µg/L	1.0		1/22/04
trans-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
1,1,2-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Dibromochloromethane	ND	1.0	µg/L	1.0		1/22/04
Chlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Ethylbenzene	0.61	0.50	µg/L	1.0		1/22/04
m,p-Xylene	0.55	0.50	µg/L	1.0		1/22/04
o-Xylene	ND	0.50	µg/L	1.0		1/22/04
Bromoform	ND	1.0	µg/L	1.0		1/22/04
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1.0		1/22/04
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Surrogate: 1,2-Dichloroethane-d4	108	80-120	% Rec	1.0		1/22/04
Surrogate: 1,4-Dichlorobenzene-d4	96.1	80-120	% Rec	1.0		1/22/04
Surrogate: Dibromofluoromethane	108	80-120	% Rec	1.0		1/22/04
Surrogate: Toluene-d8	96.6	80-120	% Rec	1.0		1/22/04

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North Coast Laboratories, Ltd.

Date: 28-Jan-04

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401389
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Method Blank

Sample ID: **MB 012204** Batch ID: **R27129** Test Code: **8260W** Units: **µg/L** Analysis Date: **1/22/04 5:26:00 AM** Prep Date:

Client ID: Run ID: **ORGCMS3_040122A** SeqNo: **398520**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	0.6181	2.0									J
Vinyl chloride	ND	1.0									
Bromomethane	0.9991	1.0									J
Chloroethane	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
Methylene chloride	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
1,1-Dichloroethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
Chloroform	ND	1.0									
Carbon Tetrachloride	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
Benzene	ND	0.50									
1,2-Dichloroethane	ND	1.0									
Trichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
Bromodichloromethane	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Toluene	ND	0.50									
Tetrachloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
Dibromochloromethane	ND	1.0									
Chlorobenzene	ND	1.0									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401389
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Method Blank

Bromoform	ND	1.0										
1,1,2,2-Tetrachloroethane	ND	1.0										
1,3-Dichlorobenzene	ND	1.0										
1,4-Dichlorobenzene	0.2189	1.0										J
1,2-Dichlorobenzene	ND	1.0										
1,2-Dichloroethane-d4	1.06	0.10	1.00	0	106%	80	120	0				
1,4-Dichlorobenzene-d4	0.938	0.10	1.00	0	93.8%	80	120	0				
Dibromofluoromethane	1.04	0.10	1.00	0	104%	80	120	0				
Toluene-d8	0.958	0.10	1.00	0	95.8%	80	120	0				

Sample ID: **MB-10697** Batch ID: **10697** Test Code: **PCPTW** Units: **µg/L** Analysis Date: **1/25/04 10:04:01 PM** Prep Date: **1/22/04**

Client ID: Run ID: **ORGC4_040123A** SeqNo: **398588**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachlorophenol	ND	1.0									
Pentachlorophenol	ND	0.30									
Dibromophenol	5.33	0.10	5.00	0	107%	70	119	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 28-Jan-04

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401389
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: **LCS-04030** Batch ID: **R27129** Test Code: **8260W** Units: **µg/L** Analysis Date: **1/22/04 3:43:00 AM** Prep Date:

Client ID: Run ID: **ORGCMS3_040122A** SeqNo: **398517**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	20.03	2.0	20.0	0	100%	70	130	0			
Vinyl chloride	21.68	1.0	20.0	0	108%	70	130	0			
Bromomethane	26.81	1.0	20.0	0	134%	70	130	0			S
Chloroethane	20.84	1.0	20.0	0	104%	70	130	0			
Trichlorofluoromethane	20.03	1.0	20.0	0	100%	70	130	0			
1,1-Dichloroethene	21.73	1.0	20.0	0	109%	70	130	0			
Methylene chloride	21.66	2.0	20.0	0	108%	70	130	0			
trans-1,2-Dichloroethene	22.10	1.0	20.0	0	110%	70	130	0			
1,1-Dichloroethane	22.16	1.0	20.0	0	111%	70	130	0			
cis-1,2-Dichloroethene	23.09	1.0	20.0	0	115%	70	130	0			
Chloroform	22.35	1.0	20.0	0	112%	70	130	0			
Carbon Tetrachloride	22.38	1.0	20.0	0	112%	70	130	0			
1,1,1-Trichloroethane	22.62	1.0	20.0	0	113%	70	130	0			
Benzene	22.77	0.50	20.0	0	114%	70	130	0			
1,2-Dichloroethane	23.15	1.0	20.0	0	116%	70	130	0			
Trichloroethene	22.71	1.0	20.0	0	114%	70	130	0			
1,2-Dichloropropane	22.50	1.0	20.0	0	113%	70	130	0			
Bromodichloromethane	22.79	1.0	20.0	0	114%	70	130	0			
cis-1,3-Dichloropropene	25.16	1.0	20.0	0	126%	70	130	0			
Toluene	21.03	0.50	20.0	0	105%	70	130	0			
Tetrachloroethene	21.75	1.0	20.0	0	109%	70	130	0			
trans-1,3-Dichloropropene	23.37	1.0	20.0	0	117%	70	130	0			
1,1,2-Trichloroethane	20.54	1.0	20.0	0	103%	70	130	0			
Dibromochloromethane	21.60	1.0	20.0	0	108%	70	130	0			
Chlorobenzene	21.06	1.0	20.0	0	105%	70	130	0			
Ethylbenzene	22.08	0.50	20.0	0	110%	70	130	0			
m,p-Xylene	44.74	0.50	40.0	0	112%	70	130	0			
o-Xylene	21.91	0.50	20.0	0	110%	70	130	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401389
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Laboratory Control Spike

Bromoform	21.36	1.0	20.0	0	107%	70	130	0
1,1,2,2-Tetrachloroethane	19.88	1.0	20.0	0	99.4%	70	130	0
1,3-Dichlorobenzene	20.57	1.0	20.0	0	103%	70	130	0
1,4-Dichlorobenzene	20.79	1.0	20.0	0	104%	70	130	0
1,2-Dichlorobenzene	20.44	1.0	20.0	0	102%	70	130	0
1,2-Dichloroethane-d4	1.02	0.10	1.00	0	102%	80	120	0
1,4-Dichlorobenzene-d4	0.976	0.10	1.00	0	97.6%	80	120	0
Dibromofluoromethane	1.00	0.10	1.00	0	100%	80	120	0
Toluene-d8	0.991	0.10	1.00	0	99.1%	80	120	0

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401389
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: **LCSD-04030** Batch ID: **R27129** Test Code: **8260W** Units: **µg/L** Analysis Date: **1/22/04 4:09:00 AM** Prep Date:

Client ID: Run ID: **ORGCMS3_040122A** SeqNo: **398518**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	21.75	2.0	20.0	0	109%	70	130	20.0	8.24%	20	
Vinyl chloride	21.12	1.0	20.0	0	106%	70	130	21.7	2.62%	20	
Bromomethane	26.24	1.0	20.0	0	131%	70	130	26.8	2.18%	20	S
Chloroethane	20.08	1.0	20.0	0	100%	70	130	20.8	3.71%	20	
Trichlorofluoromethane	19.43	1.0	20.0	0	97.1%	70	130	20.0	3.07%	20	
1,1-Dichloroethene	21.55	1.0	20.0	0	108%	70	130	21.7	0.829%	20	
Methylene chloride	21.28	2.0	20.0	0	106%	70	130	21.7	1.78%	20	
trans-1,2-Dichloroethene	21.83	1.0	20.0	0	109%	70	130	22.1	1.19%	20	
1,1-Dichloroethane	21.95	1.0	20.0	0	110%	70	130	22.2	0.979%	20	
cis-1,2-Dichloroethene	23.09	1.0	20.0	0	115%	70	130	23.1	0.0123%	20	
Chloroform	22.13	1.0	20.0	0	111%	70	130	22.4	0.998%	20	
Carbon Tetrachloride	22.23	1.0	20.0	0	111%	70	130	22.4	0.635%	20	
1,1,1-Trichloroethane	22.32	1.0	20.0	0	112%	70	130	22.6	1.34%	20	
Benzene	22.50	0.50	20.0	0	112%	70	130	22.8	1.23%	20	
1,2-Dichloroethane	22.75	1.0	20.0	0	114%	70	130	23.2	1.77%	20	
Trichloroethene	22.28	1.0	20.0	0	111%	70	130	22.7	1.90%	20	
1,2-Dichloropropane	22.58	1.0	20.0	0	113%	70	130	22.5	0.330%	20	
Bromodichloromethane	22.53	1.0	20.0	0	113%	70	130	22.8	1.15%	20	
cis-1,3-Dichloropropene	24.75	1.0	20.0	0	124%	70	130	25.2	1.63%	20	
Toluene	20.85	0.50	20.0	0	104%	70	130	21.0	0.825%	20	
Tetrachloroethene	21.30	1.0	20.0	0	106%	70	130	21.8	2.09%	20	
trans-1,3-Dichloropropene	23.29	1.0	20.0	0	116%	70	130	23.4	0.322%	20	
1,1,2-Trichloroethane	20.91	1.0	20.0	0	105%	70	130	20.5	1.81%	20	
Dibromochloromethane	21.08	1.0	20.0	0	105%	70	130	21.6	2.45%	20	
Chlorobenzene	20.96	1.0	20.0	0	105%	70	130	21.1	0.466%	20	
Ethylbenzene	21.57	0.50	20.0	0	108%	70	130	22.1	2.33%	20	
m,p-Xylene	44.08	0.50	40.0	0	110%	70	130	44.7	1.49%	20	
o-Xylene	22.02	0.50	20.0	0	110%	70	130	21.9	0.496%	20	
Bromoform	20.76	1.0	20.0	0	104%	70	130	21.4	2.84%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401389
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

1,1,2,2-Tetrachloroethane	19.68	1.0	20.0	0	98.4%	70	130	19.9	0.981%	20
1,3-Dichlorobenzene	20.71	1.0	20.0	0	104%	70	130	20.6	0.682%	20
1,4-Dichlorobenzene	20.76	1.0	20.0	0	104%	70	130	20.8	0.155%	20
1,2-Dichlorobenzene	20.49	1.0	20.0	0	102%	70	130	20.4	0.241%	20
1,2-Dichloroethane-d4	1.00	0.10	1.00	0	100%	80	120	1.02	1.55%	20
1,4-Dichlorobenzene-d4	0.975	0.10	1.00	0	97.5%	80	120	0.976	0.102%	20
Dibromofluoromethane	0.997	0.10	1.00	0	99.7%	80	120	1.00	0.522%	20
Toluene-d8	0.990	0.10	1.00	0	99.0%	80	120	0.991	0.0305%	20

Sample ID: **LCS-10697** Batch ID: **10697** Test Code: **PCPTW** Units: **µg/L** Analysis Date: **1/25/04 10:24:47 PM** Prep Date: **1/22/04**
Client ID: Run ID: **ORGC4_040123A** SeqNo: **398589**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachlorophenol	4.936	1.0	5.00	0	98.7%	78	111	0			
Pentachlorophenol	1.888	0.30	1.50	0	126%	85	132	0			
Dibromophenol	5.36	0.10	5.00	0	107%	70	119	0			

Sample ID: **LCSD-10697** Batch ID: **10697** Test Code: **PCPTW** Units: **µg/L** Analysis Date: **1/25/04 10:45:32 PM** Prep Date: **1/22/04**
Client ID: Run ID: **ORGC4_040123A** SeqNo: **398590**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachlorophenol	4.747	1.0	5.00	0	94.9%	78	111	4.94	3.90%	15	
Pentachlorophenol	1.759	0.30	1.50	0	117%	85	132	1.89	7.09%	15	
Dibromophenol	5.22	0.10	5.00	0	104%	70	119	5.36	2.52%	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SLR

P. 1 of 1

NORTH COAST LABORATORIES LTD.
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Chain of Custody

LABORATORY NUMBER: 0401389

Attention: FRANS LOWMAN
Results & Invoice to: SHN
Address: 812 West Wabash Avenue
Eureka, CA 95501
Phone: 441-8855
Copies of Report to:
Sampler (Sign & Print): R. Rueben

TAT: ☐ 24 Hr ☐ 48 Hr ☒ 3 Day ☐ 5–7 Day
☐ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☒ Verbal ☐ By: __/__/__
Final Report: FAX ☐ Verbal ☐ By: __/__/__

PROJECT INFORMATION
Project Number: 003154
Project Name: FORMER SIMPSON REMAN
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	CONTAINER	PRESERVATIVE	ANALYSIS: PHENOLS - 8270	PCP/TCP CAN PUP	8260 LIST 9
	SLR-1S	1-21-04	1310	GW	5		X	X	X
	SLR-2S		1525	GW	5		X	X	X
	SLR-3S		1610	GW	5		X	X	X

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
Cooler blank = 10.2C

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
Rueben 1/21/04	12:00	R. Thompson	1/21/04 1700

SAMPLE DISPOSAL
☒ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

REC'D JAN 29 2004

NORTH COAST LABORATORIES LTD.

January 28, 2004

SHN Consulting Engineers and Geologists
812 West Wabash Avenue
Eureka, CA 95501

Attn: Frans Lowman

RE: 003154, Former Simpson Reman

Order No.: 0401404
Invoice No.: 39764
PO No.:

ELAP No. 1247-Expires July 2004

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	DT-1
01B	DT-1
02A	DT-2
02B	DT-2
03A	DT-3
03B	DT-3
04A	DUP
04B	DUP
05A	TB-1

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

5680 West End Road • Arcata California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Printed on Recycled Paper

North Coast Laboratories, Ltd. **Date:** *28-Jan-04*

CLIENT: SHN Consulting Engineers and Geologists
Project: 003154, Former Simpson Reman
Lab Order: 0401404

CASE NARRATIVE

Gasoline Components/Additives:
The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were above the upper acceptance limit for bromomethane. These recoveries indicate that the sample results may be erroneously high. There were no detectable levels of the analyte in the samples; therefore, the data were accepted.

PCP/TCP:
The positive results were confirmed by second column. Suggest GC/MS.

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Date: 28-Jan-04
WorkOrder: 0401404

ANALYTICAL REPORT

Client Sample ID: DT-1 **Received:** 1/21/04 **Collected:** 1/21/04 9:50
Lab ID: 0401404-01A

Test Name: Penta- and Tetrachlorophenol **Reference:** Canadian Pulp Report

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Tetrachlorophenol	ND	1.0	µg/L	1.0	1/22/04	1/26/04
Pentachlorophenol	0.41	0.30	µg/L	1.0	1/22/04	1/26/04
Surrogate: Dibromophenol	106	69.7-119	% Rec	1.0	1/22/04	1/26/04

NORTH COAST LABORATORIES
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Date: 28-Jan-04
WorkOrder: 0401404

ANALYTICAL REPORT

Client Sample ID: DT-1 **Received:** 1/21/04 **Collected:** 1/21/04 9:50
Lab ID: 0401404-01B

Test Name: EPA 8260 **Reference:** EPA 5030B/8260B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chloromethane	ND	2.0	µg/L	1.0		1/22/04
Vinyl chloride	ND	1.0	µg/L	1.0		1/22/04
Bromomethane	ND	1.0	µg/L	1.0		1/22/04
Chloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichlorofluoromethane	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Methylene chloride	ND	2.0	µg/L	1.0		1/22/04
trans-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Chloroform	ND	1.0	µg/L	1.0		1/22/04
Carbon Tetrachloride	ND	1.0	µg/L	1.0		1/22/04
1,1,1-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Benzene	ND	0.50	µg/L	1.0		1/22/04
1,2-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichloropropane	ND	1.0	µg/L	1.0		1/22/04
Bromodichloromethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
Toluene	ND	0.50	µg/L	1.0		1/22/04
Tetrachloroethene	ND	1.0	µg/L	1.0		1/22/04
trans-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
1,1,2-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Dibromochloromethane	ND	1.0	µg/L	1.0		1/22/04
Chlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Ethylbenzene	ND	0.50	µg/L	1.0		1/22/04
m,p-Xylene	ND	0.50	µg/L	1.0		1/22/04
o-Xylene	ND	0.50	µg/L	1.0		1/22/04
Bromoform	ND	1.0	µg/L	1.0		1/22/04
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1.0		1/22/04
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Surrogate: 1,2-Dichloroethane-d4	111	80-120	% Rec	1.0		1/22/04
Surrogate: 1,4-Dichlorobenzene-d4	97.9	80-120	% Rec	1.0		1/22/04
Surrogate: Dibromofluoromethane	108	80-120	% Rec	1.0		1/22/04
Surrogate: Toluene-d8	94.6	80-120	% Rec	1.0		1/22/04

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Date: 28-Jan-04
WorkOrder: 0401404

ANALYTICAL REPORT

Client Sample ID: DT-2 **Received:** 1/21/04 **Collected:** 1/21/04 11:15
Lab ID: 0401404-02A

Test Name: Penta- and Tetrachlorophenol **Reference:** Canadian Pulp Report

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Tetrachlorophenol	ND	1.0	µg/L	1.0	1/22/04	1/26/04
Pentachlorophenol	ND	0.30	µg/L	1.0	1/22/04	1/26/04
Surrogate: Dibromophenol	104	69.7-119	% Rec	1.0	1/22/04	1/26/04

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Date: 28-Jan-04
WorkOrder: 0401404

ANALYTICAL REPORT

Client Sample ID: DT-2 **Received:** 1/21/04 **Collected:** 1/21/04 11:15
Lab ID: 0401404-02B

Test Name: EPA 8260 **Reference:** EPA 5030B/8260B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chloromethane	ND	2.0	µg/L	1.0		1/22/04
Vinyl chloride	ND	1.0	µg/L	1.0		1/22/04
Bromomethane	ND	1.0	µg/L	1.0		1/22/04
Chloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichlorofluoromethane	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Methylene chloride	ND	2.0	µg/L	1.0		1/22/04
trans-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Chloroform	ND	1.0	µg/L	1.0		1/22/04
Carbon Tetrachloride	ND	1.0	µg/L	1.0		1/22/04
1,1,1-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Benzene	ND	0.50	µg/L	1.0		1/22/04
1,2-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichloropropane	ND	1.0	µg/L	1.0		1/22/04
Bromodichloromethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
Toluene	ND	0.50	µg/L	1.0		1/22/04
Tetrachloroethene	ND	1.0	µg/L	1.0		1/22/04
trans-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
1,1,2-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Dibromochloromethane	ND	1.0	µg/L	1.0		1/22/04
Chlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Ethylbenzene	ND	0.50	µg/L	1.0		1/22/04
m,p-Xylene	ND	0.50	µg/L	1.0		1/22/04
o-Xylene	ND	0.50	µg/L	1.0		1/22/04
Bromoform	ND	1.0	µg/L	1.0		1/22/04
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1.0		1/22/04
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Surrogate: 1,2-Dichloroethane-d4	111	80-120	% Rec	1.0		1/22/04
Surrogate: 1,4-Dichlorobenzene-d4	96.0	80-120	% Rec	1.0		1/22/04
Surrogate: Dibromofluoromethane	110	80-120	% Rec	1.0		1/22/04
Surrogate: Toluene-d8	95.9	80-120	% Rec	1.0		1/22/04

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Date: 28-Jan-04
WorkOrder: 0401404

ANALYTICAL REPORT

Client Sample ID: DT-3 **Received:** 1/21/04 **Collected:** 1/21/04 10:40
Lab ID: 0401404-03A

Test Name: Penta- and Tetrachlorophenol **Reference:** Canadian Pulp Report

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Tetrachlorophenol	ND	1.0	µg/L	1.0	1/22/04	1/26/04
Pentachlorophenol	0.43	0.30	µg/L	1.0	1/22/04	1/26/04
Surrogate: Dibromophenol	103	69.7-119	% Rec	1.0	1/22/04	1/26/04

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Date: 28-Jan-04
WorkOrder: 0401404

ANALYTICAL REPORT

Client Sample ID: DT-3 **Received:** 1/21/04 **Collected:** 1/21/04 10:40
Lab ID: 0401404-03B

Test Name: EPA 8260 **Reference:** EPA 5030B/8260B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chloromethane	ND	2.0	µg/L	1.0		1/22/04
Vinyl chloride	ND	1.0	µg/L	1.0		1/22/04
Bromomethane	ND	1.0	µg/L	1.0		1/22/04
Chloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichlorofluoromethane	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Methylene chloride	ND	2.0	µg/L	1.0		1/22/04
trans-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Chloroform	ND	1.0	µg/L	1.0		1/22/04
Carbon Tetrachloride	ND	1.0	µg/L	1.0		1/22/04
1,1,1-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Benzene	ND	0.50	µg/L	1.0		1/22/04
1,2-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichloropropane	ND	1.0	µg/L	1.0		1/22/04
Bromodichloromethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
Toluene	ND	0.50	µg/L	1.0		1/22/04
Tetrachloroethene	ND	1.0	µg/L	1.0		1/22/04
trans-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
1,1,2-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Dibromochloromethane	ND	1.0	µg/L	1.0		1/22/04
Chlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Ethylbenzene	ND	0.50	µg/L	1.0		1/22/04
m,p-Xylene	ND	0.50	µg/L	1.0		1/22/04
o-Xylene	ND	0.50	µg/L	1.0		1/22/04
Bromoform	ND	1.0	µg/L	1.0		1/22/04
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1.0		1/22/04
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Surrogate: 1,2-Dichloroethane-d4	111	80-120	% Rec	1.0		1/22/04
Surrogate: 1,4-Dichlorobenzene-d4	97.1	80-120	% Rec	1.0		1/22/04
Surrogate: Dibromofluoromethane	109	80-120	% Rec	1.0		1/22/04
Surrogate: Toluene-d8	96.5	80-120	% Rec	1.0		1/22/04

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Date: 28-Jan-04
WorkOrder: 0401404

ANALYTICAL REPORT

Client Sample ID: DUP **Received:** 1/21/04 **Collected:** 1/21/04 0:00
Lab ID: 0401404-04A

Test Name: Penta- and Tetrachlorophenol **Reference:** Canadian Pulp Report

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Tetrachlorophenol	ND	1.0	µg/L	1.0	1/22/04	1/26/04
Pentachlorophenol	ND	0.30	µg/L	1.0	1/22/04	1/26/04
Surrogate: Dibromophenol	101	69.7-119	% Rec	1.0	1/22/04	1/26/04

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Date: 28-Jan-04
WorkOrder: 0401404

ANALYTICAL REPORT

Client Sample ID: DUP **Received:** 1/21/04 **Collected:** 1/21/04 0:00
Lab ID: 0401404-04B

Test Name: EPA 8260 **Reference:** EPA 5030B/8260B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chloromethane	ND	2.0	µg/L	1.0		1/22/04
Vinyl chloride	ND	1.0	µg/L	1.0		1/22/04
Bromomethane	ND	1.0	µg/L	1.0		1/22/04
Chloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichlorofluoromethane	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Methylene chloride	ND	2.0	µg/L	1.0		1/22/04
trans-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Chloroform	ND	1.0	µg/L	1.0		1/22/04
Carbon Tetrachloride	ND	1.0	µg/L	1.0		1/22/04
1,1,1-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Benzene	ND	0.50	µg/L	1.0		1/22/04
1,2-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichloropropane	ND	1.0	µg/L	1.0		1/22/04
Bromodichloromethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
Toluene	ND	0.50	µg/L	1.0		1/22/04
Tetrachloroethene	ND	1.0	µg/L	1.0		1/22/04
trans-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
1,1,2-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Dibromochloromethane	ND	1.0	µg/L	1.0		1/22/04
Chlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Ethylbenzene	ND	0.50	µg/L	1.0		1/22/04
m,p-Xylene	ND	0.50	µg/L	1.0		1/22/04
o-Xylene	ND	0.50	µg/L	1.0		1/22/04
Bromoform	ND	1.0	µg/L	1.0		1/22/04
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1.0		1/22/04
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Surrogate: 1,2-Dichloroethane-d4	111	80-120	% Rec	1.0		1/22/04
Surrogate: 1,4-Dichlorobenzene-d4	96.6	80-120	% Rec	1.0		1/22/04
Surrogate: Dibromofluoromethane	110	80-120	% Rec	1.0		1/22/04
Surrogate: Toluene-d8	95.9	80-120	% Rec	1.0		1/22/04

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Date: 28-Jan-04
WorkOrder: 0401404

ANALYTICAL REPORT

Client Sample ID: TB-1 **Received:** 1/21/04 **Collected:** 1/21/04 0:00
Lab ID: 0401404-05A

Test Name: EPA 8260 **Reference:** EPA 5030B/8260B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chloromethane	ND	2.0	µg/L	1.0		1/22/04
Vinyl chloride	ND	1.0	µg/L	1.0		1/22/04
Bromomethane	ND	1.0	µg/L	1.0		1/22/04
Chloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichlorofluoromethane	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Methylene chloride	ND	2.0	µg/L	1.0		1/22/04
trans-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,1-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,2-Dichloroethene	ND	1.0	µg/L	1.0		1/22/04
Chloroform	ND	1.0	µg/L	1.0		1/22/04
Carbon Tetrachloride	ND	1.0	µg/L	1.0		1/22/04
1,1,1-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Benzene	ND	0.50	µg/L	1.0		1/22/04
1,2-Dichloroethane	ND	1.0	µg/L	1.0		1/22/04
Trichloroethene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichloropropane	ND	1.0	µg/L	1.0		1/22/04
Bromodichloromethane	ND	1.0	µg/L	1.0		1/22/04
cis-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
Toluene	ND	0.50	µg/L	1.0		1/22/04
Tetrachloroethene	ND	1.0	µg/L	1.0		1/22/04
trans-1,3-Dichloropropene	ND	1.0	µg/L	1.0		1/22/04
1,1,2-Trichloroethane	ND	1.0	µg/L	1.0		1/22/04
Dibromochloromethane	ND	1.0	µg/L	1.0		1/22/04
Chlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Ethylbenzene	ND	0.50	µg/L	1.0		1/22/04
m,p-Xylene	ND	0.50	µg/L	1.0		1/22/04
o-Xylene	ND	0.50	µg/L	1.0		1/22/04
Bromoform	ND	1.0	µg/L	1.0		1/22/04
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1.0		1/22/04
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		1/22/04
Surrogate: 1,2-Dichloroethane-d4	107	80-120	% Rec	1.0		1/22/04
Surrogate: 1,4-Dichlorobenzene-d4	95.3	80-120	% Rec	1.0		1/22/04
Surrogate: Dibromofluoromethane	105	80-120	% Rec	1.0		1/22/04
Surrogate: Toluene-d8	96.1	80-120	% Rec	1.0		1/22/04

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North Coast Laboratories, Ltd.

Date: 28-Jan-04

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401404
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Method Blank

Sample ID **MB 012204** Batch ID: **R27129** Test Code: **8260W** Units: **µg/L** Analysis Date **1/22/04 5:26:00 AM** Prep Date

Client ID: Run ID: **ORGCMS3_040122A** SeqNo: **398520**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	0.6181	2.0									J
Vinyl chloride	ND	1.0									
Bromomethane	0.9991	1.0									J
Chloroethane	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
Methylene chloride	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
1,1-Dichloroethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
Chloroform	ND	1.0									
Carbon Tetrachloride	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
Benzene	ND	0.50									
1,2-Dichloroethane	ND	1.0									
Trichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
Bromodichloromethane	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Toluene	ND	0.50									
Tetrachloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
Dibromochloromethane	ND	1.0									
Chlorobenzene	ND	1.0									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401404
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Method Blank

Bromoform	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	0.2189	1.0									J
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane-d4	1.06	0.10	1.00	0	106%	80	120	0			
1,4-Dichlorobenzene-d4	0.938	0.10	1.00	0	93.8%	80	120	0			
Dibromofluoromethane	1.04	0.10	1.00	0	104%	80	120	0			
Toluene-d8	0.958	0.10	1.00	0	95.8%	80	120	0			

Sample ID **MB-10697** Batch ID: **10697** Test Code: **PCPTW** Units: **µg/L** Analysis Date **1/25/04 10:04:01 PM** Prep Date **1/22/04**

Client ID: Run ID: **ORGC4_040123A** SeqNo: **398588**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachlorophenol	ND	1.0									
Pentachlorophenol	ND	0.30									
Dibromophenol	5.33	0.10	5.00	0	107%	70	119	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 28-Jan-04

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401404
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-04030** Batch ID: **R27129** Test Code: **8260W** Units: **µg/L** Analysis Date **1/22/04 3:43:00 AM** Prep Date

Client ID: Run ID: **ORGCMS3_040122A** SeqNo: **398517**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	20.03	2.0	20.0	0	100%	70	130	0			
Vinyl chloride	21.68	1.0	20.0	0	108%	70	130	0			
Bromomethane	26.81	1.0	20.0	0	134%	70	130	0			S
Chloroethane	20.84	1.0	20.0	0	104%	70	130	0			
Trichlorofluoromethane	20.03	1.0	20.0	0	100%	70	130	0			
1,1-Dichloroethene	21.73	1.0	20.0	0	109%	70	130	0			
Methylene chloride	21.66	2.0	20.0	0	108%	70	130	0			
trans-1,2-Dichloroethene	22.10	1.0	20.0	0	110%	70	130	0			
1,1-Dichloroethane	22.16	1.0	20.0	0	111%	70	130	0			
cis-1,2-Dichloroethene	23.09	1.0	20.0	0	115%	70	130	0			
Chloroform	22.35	1.0	20.0	0	112%	70	130	0			
Carbon Tetrachloride	22.38	1.0	20.0	0	112%	70	130	0			
1,1,1-Trichloroethane	22.62	1.0	20.0	0	113%	70	130	0			
Benzene	22.77	0.50	20.0	0	114%	70	130	0			
1,2-Dichloroethane	23.15	1.0	20.0	0	116%	70	130	0			
Trichloroethene	22.71	1.0	20.0	0	114%	70	130	0			
1,2-Dichloropropane	22.50	1.0	20.0	0	113%	70	130	0			
Bromodichloromethane	22.79	1.0	20.0	0	114%	70	130	0			
cis-1,3-Dichloropropene	25.16	1.0	20.0	0	126%	70	130	0			
Toluene	21.03	0.50	20.0	0	105%	70	130	0			
Tetrachloroethene	21.75	1.0	20.0	0	109%	70	130	0			
trans-1,3-Dichloropropene	23.37	1.0	20.0	0	117%	70	130	0			
1,1,2-Trichloroethane	20.54	1.0	20.0	0	103%	70	130	0			
Dibromochloromethane	21.60	1.0	20.0	0	108%	70	130	0			
Chlorobenzene	21.06	1.0	20.0	0	105%	70	130	0			
Ethylbenzene	22.08	0.50	20.0	0	110%	70	130	0			
m,p-Xylene	44.74	0.50	40.0	0	112%	70	130	0			
o-Xylene	21.91	0.50	20.0	0	110%	70	130	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401404
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Laboratory Control Spike

Bromoform	21.36	1.0	20.0	0	107%	70	130	0
1,1,2,2-Tetrachloroethane	19.88	1.0	20.0	0	99.4%	70	130	0
1,3-Dichlorobenzene	20.57	1.0	20.0	0	103%	70	130	0
1,4-Dichlorobenzene	20.79	1.0	20.0	0	104%	70	130	0
1,2-Dichlorobenzene	20.44	1.0	20.0	0	102%	70	130	0
1,2-Dichloroethane-d4	1.02	0.10	1.00	0	102%	80	120	0
1,4-Dichlorobenzene-d4	0.976	0.10	1.00	0	97.6%	80	120	0
Dibromofluoromethane	1.00	0.10	1.00	0	100%	80	120	0
Toluene-d8	0.991	0.10	1.00	0	99.1%	80	120	0

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401404
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-04030** Batch ID: **R27129** Test Code: **8260W** Units: **µg/L** Analysis Date **1/22/04 4:09:00 AM** Prep Date

Client ID: Run ID: **ORGCMS3_040122A** SeqNo: **398518**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	21.75	2.0	20.0	0	109%	70	130	20.0	8.24%	20	
Vinyl chloride	21.12	1.0	20.0	0	106%	70	130	21.7	2.62%	20	
Bromomethane	26.24	1.0	20.0	0	131%	70	130	26.8	2.18%	20	S
Chloroethane	20.08	1.0	20.0	0	100%	70	130	20.8	3.71%	20	
Trichlorofluoromethane	19.43	1.0	20.0	0	97.1%	70	130	20.0	3.07%	20	
1,1-Dichloroethene	21.55	1.0	20.0	0	108%	70	130	21.7	0.829%	20	
Methylene chloride	21.28	2.0	20.0	0	106%	70	130	21.7	1.78%	20	
trans-1,2-Dichloroethene	21.83	1.0	20.0	0	109%	70	130	22.1	1.19%	20	
1,1-Dichloroethane	21.95	1.0	20.0	0	110%	70	130	22.2	0.979%	20	
cis-1,2-Dichloroethene	23.09	1.0	20.0	0	115%	70	130	23.1	0.0123%	20	
Chloroform	22.13	1.0	20.0	0	111%	70	130	22.4	0.998%	20	
Carbon Tetrachloride	22.23	1.0	20.0	0	111%	70	130	22.4	0.635%	20	
1,1,1-Trichloroethane	22.32	1.0	20.0	0	112%	70	130	22.6	1.34%	20	
Benzene	22.50	0.50	20.0	0	112%	70	130	22.8	1.23%	20	
1,2-Dichloroethane	22.75	1.0	20.0	0	114%	70	130	23.2	1.77%	20	
Trichloroethene	22.28	1.0	20.0	0	111%	70	130	22.7	1.90%	20	
1,2-Dichloropropane	22.58	1.0	20.0	0	113%	70	130	22.5	0.330%	20	
Bromodichloromethane	22.53	1.0	20.0	0	113%	70	130	22.8	1.15%	20	
cis-1,3-Dichloropropene	24.75	1.0	20.0	0	124%	70	130	25.2	1.63%	20	
Toluene	20.85	0.50	20.0	0	104%	70	130	21.0	0.825%	20	
Tetrachloroethene	21.30	1.0	20.0	0	106%	70	130	21.8	2.09%	20	
trans-1,3-Dichloropropene	23.29	1.0	20.0	0	116%	70	130	23.4	0.322%	20	
1,1,2-Trichloroethane	20.91	1.0	20.0	0	105%	70	130	20.5	1.81%	20	
Dibromochloromethane	21.08	1.0	20.0	0	105%	70	130	21.6	2.45%	20	
Chlorobenzene	20.96	1.0	20.0	0	105%	70	130	21.1	0.466%	20	
Ethylbenzene	21.57	0.50	20.0	0	108%	70	130	22.1	2.33%	20	
m,p-Xylene	44.08	0.50	40.0	0	110%	70	130	44.7	1.49%	20	
o-Xylene	22.02	0.50	20.0	0	110%	70	130	21.9	0.496%	20	
Bromoform	20.76	1.0	20.0	0	104%	70	130	21.4	2.84%	20	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0401404
Project: 003154, Former Simpson Reman

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

1,1,2,2-Tetrachloroethane	19.68	1.0	20.0	0	98.4%	70	130	19.9	0.981%	20
1,3-Dichlorobenzene	20.71	1.0	20.0	0	104%	70	130	20.6	0.682%	20
1,4-Dichlorobenzene	20.76	1.0	20.0	0	104%	70	130	20.8	0.155%	20
1,2-Dichlorobenzene	20.49	1.0	20.0	0	102%	70	130	20.4	0.241%	20
1,2-Dichloroethane-d4	1.00	0.10	1.00	0	100%	80	120	1.02	1.55%	20
1,4-Dichlorobenzene-d4	0.975	0.10	1.00	0	97.5%	80	120	0.976	0.102%	20
Dibromofluoromethane	0.997	0.10	1.00	0	99.7%	80	120	1.00	0.522%	20
Toluene-d8	0.990	0.10	1.00	0	99.0%	80	120	0.991	0.0305%	20

Sample ID **LCS-10697** Batch ID: **10697** Test Code: **PCPTW** Units: **µg/L** Analysis Date **1/25/04 10:24:47 PM** Prep Date **1/22/04**
Client ID: Run ID: **ORGC4_040123A** SeqNo: **398589**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachlorophenol	4.936	1.0	5.00	0	98.7%	78	111	0			
Pentachlorophenol	1.888	0.30	1.50	0	126%	85	132	0			
Dibromophenol	5.36	0.10	5.00	0	107%	70	119	0			

Sample ID **LCSD-10697** Batch ID: **10697** Test Code: **PCPTW** Units: **µg/L** Analysis Date **1/25/04 10:45:32 PM** Prep Date **1/22/04**
Client ID: Run ID: **ORGC4_040123A** SeqNo: **398590**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachlorophenol	4.747	1.0	5.00	0	94.9%	78	111	4.94	3.90%	15	
Pentachlorophenol	1.759	0.30	1.50	0	117%	85	132	1.89	7.09%	15	
Dibromophenol	5.22	0.10	5.00	0	104%	70	119	5.36	2.52%	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

DIP TANK

P. 1 of 1

1/22/04 (004) K Thompson

~~0401390~~

LABORATORY NUMBER: 0401404

Attention: FRANS LOWMAN
Results & Invoice to: SHN
Address: 812 West Wabash Avenue
Eureka, CA 95501
Phone: 441-8855
Copies of Report to:
Sampler (Sign & Print): R. Rueber

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☐ STD (2–3 Wk) ☐ Other: *
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☐ Verbal ☐ By: __/__/__
Final Report: FAX ☐ Verbal ☐ By: __/__/__

PROJECT INFORMATION
Project Number: 003154
Project Name: FORMER SIMPSON REMAN
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	CONTAINER	PRESERVATIVE	PHENOLS - 8270	PCP/TCP CAN PUP	8260 LIST 9	DIOXIN/FURAN
	DT-1	1-21-04	950	GW	6		X	X	X	H
	DT-2	1-21-04	1115	↓	6		X	X	X	H
	DT-3	1-21-04	1040	↓	6		X	X	X	H
	TB-1			⊘	1				X	
	DUP	1-21-04		GW	5		X	X	X	

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
DIOXIN/FURANS FOR REGULAR TURNAROUND.
ANALYZE 1 SAMPLE ONLY FROM SAMPLE LOCATION WITH HIGHEST PCP
IF NO PCP DETECTED CALL FRANS LOWMAN TO DETERMINE WHICH SAMPLE TO RUN
Cooler blank = 10.2°C

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
R. Rueber 1/21/04	17:00	K. Thompson	1/21/04 1700

SAMPLE DISPOSAL
☐ CNCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

REC'D FEB 9 2004

SEVERN TRENT STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

January 30, 2004

STL SACRAMENTO PROJECT NUMBER: G4A230204
PO/CONTRACT:

Loretta Tomlin
North Coast Labs
5680 West End Road
Arcata, CA 95521

Dear Ms. Tomlin,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on January 23, 2004. These samples are associated with your 0401390 project.

The test results in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

K Dahl

Karen Dahl
Project Manager

TABLE OF CONTENTS

STL SACRAMENTO PROJECT NUMBER G4A230204

Case Narrative

STL Sacramento Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 8270C, phenols
Samples: 1, 2, 3
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

WASTE, 8270C, phenols
Sample: 4
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G4A230204

General Comments
As discussed on 1/23/04, sample 0401390-2A contained 2 layers. Per Loretta's instructions on 1/23/04, both layers were analyzed.

The chain-of-custody was not relinquished.

WASTE, 8270C, phenols
The method blank showed 1 low surrogate recovery. Since this was a waste dilution analysis, no laboratory control samples were prepared.

There were no other anomalies associated with this project.

SEVERN TRENT STL

ACCREDITED IN ACCORDANCE WITH nelac

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	NA	South Carolina	87014001
California*	01119CA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Nevada	CA 044	USACE	NA
New Jersey*	CA005	USDA Foreign Plant	37-82605
New York*	11666	USDA Foreign Soil	S-46613

*NELAP accredited. A more detailed parameter list is available upon request.

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary
G4A230204

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
F8F1M	1	0401390-1A	1/21/2004 01:10 PM	1/23/2004 10:15 AM
F8F1Q	2	0401390-2A AQUEOUS	1/21/2004 03:25 PM	1/23/2004 10:15 AM
F8F1W	3	0401390-3A	1/21/2004 04:10 PM	1/23/2004 10:15 AM
F8JKG	4	0401390-2A WASTE	1/21/2004 03:25 PM	1/23/2004 10:15 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

NORTH COAST LABORATORIES LTD.

Sub-Contract
Chain of Custody Record

Date Shipped: 1/22/04 **Carrier:** UPS

Air Bill #: _____ **Cooler #:** _____

Subcontractor: STLSAC
5755 8th St. East
Seattle, WA 98424

Phone: 253 922-2310
Attention Line: Sample Receiving

Send Results to: North Coast Labs
5680 West End Road
Arcata, CA 95521
Attn: Loretta Tomlin
(707) 822-4649

Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
			1-23-04 1020
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time

Analysis Request

NCL Sample #:	Sample ID:	Date Sampled:	Analysis / Matrix:
0401390-1A	SLR-1S	1/21/04 1:10:00 PM	PHENOLS-8270
0401390-2A	SLR-2S	1/21/04 3:25:00 PM	PHENOLS-8270
0401390-3A	SLR-3S	1/21/04 4:10:00 PM	PHENOLS-8270

RECEIVED IN GOOD CONDITION
UNDER COC
JAN 23 2004
INI GC

Special Instructions: Please include QC Data—RUSH

Date Due: 1/30/04

Rush Charges Authorized: yes!

Preservative: None

Return Chain of Custody to NCL.

SEVERN TRENT STL

LOT RECEIPT CHECKLIST
STL Sacramento

CLIENT NORTH COAST LABS PM KD LOG # 25001

LOT# (QUANTIMS ID) G4A230204 QUOTE# 29173 LOCATION W16A

	Initials	Date
DATE RECEIVED 1-23-04 TIME RECEIVED 1015	GC	1-23-04

DELIVERED BY ☐ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☒ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ STL COURIER ☐ COURIERS ON DEMAND ☐ OTHER

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☒ N/A

CUSTODY SEAL #(S)

SHIPPPING CONTAINER(S) ☐ STL ☒ CLIENT ☐ N/A

TEMPERTURE RECORD (IN °C) IR 1☐ 2 ☐ ☒ OTHER IR-3

COC #(S)

TEMPERATURE BLANK

SAMPLE TEMPERATURE 3

COLLECTOR'S NAME: ☐ Verified from COC ☒ Not on COC

pH MEASURED ☐ YES ☐ ANOMALY ☒ N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW ☒ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM ☒ N/A

VOA-ENCORES ☒ N/A

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☒ N/A

☐ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☒ N/A

☒ Clouseau ☐ TEMPERATURE EXCEEDED (2 °-6 °C) ☐ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☒ PM NOTIFIED

Notes: COC NOT RELINQUISHED.

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0A *																				
*																				
___AGB	\	\	\																	
0BS																				
50AGB																				
50AGBs																				
50AGBn																				
50AGBna																				
___AGJ																				
00AGJ																				
50AGJ																				
25AGJ																				
___CGJ																				
00CGJ																				
50CGJ																				
25CGJ																				
___PB/PJ																				
___PBn/PJn																				
00PB/PJ																				
00PBn/PJn																				
00PBna																				
00PBzn/na																				
250PB																				
250PBn																				
250PBna																				
250PBzn/na																				
___*CT																				
Encore																				
Folder/Filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

* Number of VOA's with air bubbles present / total number of VOA's

WATER, 8270C, phenols

NORTH COAST LABS

Client Sample ID: 0401390-1A

GC/MS Semivolatiles

Lot-Sample #...: G4A230204-001 Work Order #...: F8F1M1AA Matrix.....: WATER
Date Sampled...: 01/21/04 Date Received..: 01/23/04
Prep Date.....: 01/23/04 Analysis Date..: 01/27/04
Prep Batch #...: 4023413
Dilution Factor: 1.1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Chloro-3-methylphenol	ND	11	ug/L
2-Chlorophenol	ND	11	ug/L
2,4-Dichlorophenol	ND	11	ug/L
2,4-Dimethylphenol	ND	11	ug/L
2,4-Dinitrophenol	ND	55	ug/L
2-Methylphenol	ND	11	ug/L
3-Methylphenol & 4-Methylphenol	ND	22	ug/L
2-Nitrophenol	ND	11	ug/L
4-Nitrophenol	ND	55	ug/L
Pentachlorophenol	ND	55	ug/L
Phenol	ND	11	ug/L
2,4,5-Trichloro-phenol	ND	11	ug/L
2,4,6-Trichloro-phenol	ND	11	ug/L
4,6-Dinitro-2-methylphenol	ND	55	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Chlorophenol-d4	75	(35 - 105)
1,2-Dichlorobenzene-d4	75	(29 - 96)
2-Fluorobiphenyl	78	(42 - 105)
2-Fluorophenol	44	(11 - 74)
Nitrobenzene-d5	74	(44 - 102)
Phenol-d5	32	(11 - 47)
Terphenyl-d14	101	(51 - 127)
2,4,6-Tribromophenol	73	(37 - 117)

NORTH COAST LABS

Client Sample ID: 0401390-2A AQUEOUS

GC/MS Semivolatiles

Lot-Sample #...: G4A230204-002 Work Order #...: F8F1Q1AA Matrix.....: WATER
Date Sampled...: 01/21/04 Date Received..: 01/23/04
Prep Date.....: 01/23/04 Analysis Date..: 01/27/04
Prep Batch #...: 4023413
Dilution Factor: 1.54 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Chloro-3-methylphenol	ND	15	ug/L
2-Chlorophenol	ND	15	ug/L
2,4-Dichlorophenol	ND	15	ug/L
2,4-Dimethylphenol	ND	15	ug/L
2,4-Dinitrophenol	ND	77	ug/L
2-Methylphenol	ND	15	ug/L
3-Methylphenol & 4-Methylphenol	ND	31	ug/L
2-Nitrophenol	ND	15	ug/L
4-Nitrophenol	ND	77	ug/L
Pentachlorophenol	ND	77	ug/L
Phenol	ND	15	ug/L
2,4,5-Trichloro-phenol	ND	15	ug/L
2,4,6-Trichloro-phenol	ND	15	ug/L
4,6-Dinitro-2-methylphenol	ND	77	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Chlorophenol-d4	71	(35 - 105)
1,2-Dichlorobenzene-d4	70	(29 - 96)
2-Fluorobiphenyl	71	(42 - 105)
2-Fluorophenol	42	(11 - 74)
Nitrobenzene-d5	71	(44 - 102)
Phenol-d5	30	(11 - 47)
Terphenyl-d14	108	(51 - 127)
2,4,6-Tribromophenol	65	(37 - 117)

NORTH COAST LABS

0401390-2A AQUEOUS

GC/MS Semivolatiles

Lot-Sample #: G4A230204-002 **Work Order #:** F8F1Q1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

NORTH COAST LABS

Client Sample ID: 0401390-3A

GC/MS Semivolatiles

Lot-Sample #...:	G4A230204-003	Work Order #...:	F8F1W1AA	Matrix.....:	WATER
Date Sampled...:	01/21/04	Date Received..:	01/23/04		
Prep Date.....:	01/23/04	Analysis Date..:	01/27/04		
Prep Batch #...:	4023413				
Dilution Factor:	1.03	Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Chloro-3-methylphenol	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
2,4-Dinitrophenol	ND	52	ug/L
2-Methylphenol	ND	10	ug/L
3-Methylphenol & 4-Methylphenol	ND	21	ug/L
2-Nitrophenol	ND	10	ug/L
4-Nitrophenol	ND	52	ug/L
Pentachlorophenol	ND	52	ug/L
Phenol	ND	10	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L
4,6-Dinitro-2-methylphenol	ND	52	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Chlorophenol-d4	71	(35 - 105)
1,2-Dichlorobenzene-d4	70	(29 - 96)
2-Fluorobiphenyl	76	(42 - 105)
2-Fluorophenol	45	(11 - 74)
Nitrobenzene-d5	73	(44 - 102)
Phenol-d5	30	(11 - 47)
Terphenyl-d14	102	(51 - 127)
2,4,6-Tribromophenol	72	(37 - 117)

QC DATA ASSOCIATION SUMMARY

G4A230204

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8270C		4023413	
002	WATER	SW846 8270C		4023413	
003	WATER	SW846 8270C		4023413	
004	WASTE	SW846 8270C		4026429	

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: G4A230204 Work Order #...: F8GNL1AA Matrix.....: WATER
MB Lot-Sample #: G4A230000-413

Prep Date.....: 01/23/04
Analysis Date..: 01/27/04 Prep Batch #...: 4023413
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Chlorophenol-d4	76	(35 - 105)
1,2-Dichlorobenzene-d4	74	(29 - 96)
2-Fluorobiphenyl	81	(42 - 105)
2-Fluorophenol	48	(11 - 74)
Nitrobenzene-d5	74	(44 - 102)
Phenol-d5	30	(11 - 47)
Terphenyl-d14	118	(51 - 127)
2,4,6-Tribromophenol	71	(37 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G4A230204 Work Order #...: F8GNL1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: G4A230000-413 F8GNL1AD-LCSD
Prep Date.....: 01/23/04 Analysis Date..: 01/27/04
Prep Batch #...: 4023413
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chloro-3-methylphenol	100	90.3	ug/L	90		SW846 8270C
	100	86.4	ug/L	86	4.4	SW846 8270C
2-Chlorophenol	100	88.2	ug/L	88		SW846 8270C
	100	81.8	ug/L	82	7.5	SW846 8270C
4-Nitrophenol	100	58.8	ug/L	59		SW846 8270C
	100	53.2	ug/L	53	10	SW846 8270C
Pentachlorophenol	100	89.3	ug/L	89		SW846 8270C
	100	86.6	ug/L	87	3.1	SW846 8270C
Phenol	100	44.0	ug/L	44		SW846 8270C
	100	42.0	ug/L	42	4.5	SW846 8270C
Acenaphthene	100	82.1	ug/L	82		SW846 8270C
	100	81.5	ug/L	82	0.74	SW846 8270C
1,4-Dichlorobenzene	100	78.2	ug/L	78		SW846 8270C
	100	72.9	ug/L	73	7.0	SW846 8270C
2,4-Dinitrotoluene	100	85.4	ug/L	85		SW846 8270C
	100	80.7	ug/L	81	5.7	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	94.6	ug/L	95		SW846 8270C
	100	80.0	ug/L	80	17	SW846 8270C
Pyrene	100	101	ug/L	101		SW846 8270C
	100	106	ug/L	106	4.4	SW846 8270C
1,2,4-Trichloro-benzene	100	79.1	ug/L	79		SW846 8270C
	100	76.0	ug/L	76	4.0	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Chlorophenol-d4	84	(35 - 105)
	78	(35 - 105)
1,2-Dichlorobenzene-d4	83	(29 - 96)
	79	(29 - 96)
2-Fluorobiphenyl	90	(42 - 105)
	87	(42 - 105)
2-Fluorophenol	61	(11 - 74)
	59	(11 - 74)
Nitrobenzene-d5	89	(44 - 102)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: G4A230204 **Work Order #...:** F8GNL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G4A230000-413 F8GNL1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	84	(44 - 102)
Phenol-d5	41	(11 - 47)
	36	(11 - 47)
Terphenyl-d14	103	(51 - 127)
	106	(51 - 127)
2,4,6-Tribromophenol	80	(37 - 117)
	73	(37 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G4A230204 Work Order #...: F8GNL1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: G4A230000-413 F8GNL1AD-LCSD
Prep Date.....: 01/23/04 Analysis Date..: 01/27/04
Prep Batch #...: 4023413
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloro-3-methylphenol	90	(58 - 111)			SW846 8270C
	86	(58 - 111)	4.4	(0-22)	SW846 8270C
2-Chlorophenol	88	(47 - 102)			SW846 8270C
	82	(47 - 102)	7.5	(0-25)	SW846 8270C
4-Nitrophenol	59	(10 - 82)			SW846 8270C
	53	(10 - 82)	10	(0-45)	SW846 8270C
Pentachlorophenol	89	(30 - 129)			SW846 8270C
	87	(30 - 129)	3.1	(0-24)	SW846 8270C
Phenol	44	(18 - 58)			SW846 8270C
	42	(18 - 58)	4.5	(0-30)	SW846 8270C
Acenaphthene	82	(54 - 112)			SW846 8270C
	82	(54 - 112)	0.74	(0-15)	SW846 8270C
1,4-Dichlorobenzene	78	(38 - 87)			SW846 8270C
	73	(38 - 87)	7.0	(0-50)	SW846 8270C
2,4-Dinitrotoluene	85	(58 - 119)			SW846 8270C
	81	(58 - 119)	5.7	(0-24)	SW846 8270C
N-Nitrosodi-n-propyl-amine	95	(42 - 122)			SW846 8270C
	80	(42 - 122)	17	(0-24)	SW846 8270C
Pyrene	101	(53 - 143)			SW846 8270C
	106	(53 - 143)	4.4	(0-27)	SW846 8270C
1,2,4-Trichloro-benzene	79	(44 - 93)			SW846 8270C
	76	(44 - 93)	4.0	(0-28)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Chlorophenol-d4	84	(35 - 105)
	78	(35 - 105)
1,2-Dichlorobenzene-d4	83	(29 - 96)
	79	(29 - 96)
2-Fluorobiphenyl	90	(42 - 105)
	87	(42 - 105)
2-Fluorophenol	61	(11 - 74)
	59	(11 - 74)
Nitrobenzene-d5	89	(44 - 102)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: G4A230204 Work Order #...: F8GNL1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: G4A230000-413 F8GNL1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	84	(44 - 102)
Phenol-d5	41	(11 - 47)
	36	(11 - 47)
Terphenyl-d14	103	(51 - 127)
	106	(51 - 127)
2,4,6-Tribromophenol	80	(37 - 117)
	73	(37 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

WASTE, 8270C, phenols

NORTH COAST LABS

Client Sample ID: 0401390-2A WASTE

GC/MS Semivolatiles

Lot-Sample #...:	G4A230204-004	Work Order #...:	F8JKG1AA	Matrix.....:	WASTE
Date Sampled...:	01/21/04	Date Received..:	01/23/04		
Prep Date.....:	01/26/04	Analysis Date..:	01/27/04		
Prep Batch #...:	4026429				
Dilution Factor:	1	Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Chloro-3-methylphenol	ND	100	mg/kg
2-Chlorophenol	ND	100	mg/kg
2,4-Dichlorophenol	ND	100	mg/kg
2,4-Dimethylphenol	ND	100	mg/kg
4,6-Dinitro-2-methylphenol	ND	500	mg/kg
2,4-Dinitrophenol	ND	500	mg/kg
2-Methylphenol	ND	100	mg/kg
3-Methylphenol & 4-Methylphenol	ND	200	mg/kg
2-Nitrophenol	ND	100	mg/kg
4-Nitrophenol	ND	500	mg/kg
Pentachlorophenol	ND	500	mg/kg
Phenol	ND	100	mg/kg
2,4,5-Trichlorophenol	ND	100	mg/kg
2,4,6-Trichlorophenol	ND	100	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Chlorophenol-d4	98	(20 - 130)
1,2-Dichlorobenzene-d4	115	(20 - 130)
2-Fluorobiphenyl	113	(50 - 150)
2-Fluorophenol	95	(50 - 150)
Nitrobenzene-d5	99	(50 - 150)
Phenol-d5	91	(50 - 150)
Terphenyl-d14	117	(50 - 150)
2,4,6-Tribromophenol	54	(50 - 150)

NORTH COAST LABS

0401390-2A WASTE

GC/MS Semivolatiles

Lot-Sample #: G4A230204-004 **Work Order #:** F8JKG1AA **Matrix:** WASTE

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				mg/kg

QC DATA ASSOCIATION SUMMARY

G4A230204

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8270C		4023413	
002	WATER	SW846 8270C		4023413	
003	WATER	SW846 8270C		4023413	
004	WASTE	SW846 8270C		4026429	

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: G4A230204 Work Order #...: F8J8Q1AA Matrix.....: WASTE
MB Lot-Sample #: G4A260000-429

Prep Date.....: 01/26/04
Analysis Date..: 01/27/04 Prep Batch #...: 4026429
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4-Chloro-3-methylphenol	ND	100	mg/kg	SW846 8270C
2-Chlorophenol	ND	100	mg/kg	SW846 8270C
2,4-Dichlorophenol	ND	100	mg/kg	SW846 8270C
2,4-Dimethylphenol	ND	100	mg/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	500	mg/kg	SW846 8270C
2,4-Dinitrophenol	ND	500	mg/kg	SW846 8270C
2-Methylphenol	ND	100	mg/kg	SW846 8270C
2-Nitrophenol	ND	100	mg/kg	SW846 8270C
4-Nitrophenol	ND	500	mg/kg	SW846 8270C
Pentachlorophenol	ND	500	mg/kg	SW846 8270C
Phenol	ND	100	mg/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	100	mg/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	100	mg/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	200	mg/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Chlorophenol-d4	88	(20 - 130)
1,2-Dichlorobenzene-d4	102	(20 - 130)
2-Fluorobiphenyl	102	(50 - 150)
2-Fluorophenol	84	(50 - 150)
Nitrobenzene-d5	87	(50 - 150)
Phenol-d5	90	(50 - 150)
Terphenyl-d14	110	(50 - 150)
2,4,6-Tribromophenol	46 *	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Surrogate recovery is outside stated control limits.

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

P. 1 / 1

LABORATORY NUMBER: 0401390

Attention: Frank Lindman
Results & Invoice to: SHN
Address: 812 West Wabash Avenue
Eureka, CA 95501
Phone: 441-8855
Copies of Report to:
Sampler (Sign & Print): [illegible]

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☐ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☐ Verbal ☐ By:__/__/__
Final Report: FAX ☐ Verbal ☐ By:__/__/__

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 2023154
Project Name: Gunnison Rental
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	PRESERVATIVE	CONTAINER	ANALYSIS: Frames 8270	ANALYSIS: Pesticides CAM 440	ANALYSIS: 8260 List 5
	SLR-1S	1-21-04	1310	GW		7	X	X	X
	SLR-2S	"	1525	GW			X	X	X
	SLR-3S	"	1610	GW			X	X	X

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
Cooler blank = 10.2 C

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
[illegible] 1/21/04	12:00	R. Thompson	1/21/04 1200

SAMPLE DISPOSAL
☐ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT