GW - 164

MONITORING REPORTS

DATE: 2004-2003



RECEIVED

FEB 22 2001

February 17, 2007

Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

VIA EMIAL: Jose.Quintana@safety.kleen.com

Re: Waste Material Profile, Wood Group ESP, Inc., 8426 North Dal Paso, Hobbs, New Mexico

Dear Jose:

Please find the waste material profile in Attachment A for the hazardous wastewater at the Wood Group ESP (WGESP) Hobbs Test Shop located at 8426 North Dal Paso, in Hobbs, New Mexico. The waste material profile was prepared by Larson and Associates, Inc., as agent to WGESP, and an expedited approval is requested so that the material may be removed from the location during the week of February 19, 2007. The New Mexico Environment Department (NMED) Hazardous Waste Bureau has been contacted for a one-time exemption to dispose of the wastewater. Please contact me at (432) 687-0901 or email mark@laenvironmental.com.

Sincerely,

Larson and Associates, Inc.

Mark J. Larson

Sr. Project Manager / President

Encl.

cc: Mr. James Valdez/NMED – Santa Fe

Mr. Wayne Price/NMOCD - Santa Fe

Mr. Larry Johnson/NMOCD - District 1

Mr. Jeff Beighle/WGESP

Mr. Mike Nieman/WGESP

Mr. Galen Goodman/WGESP

Mr. Mark Neinast/WGESP

Mr. Rod Burrola/WGESP

SAFE	TY-KLEEN
WASTE MA	TERIAL PROFILE PROFILE #:
Customer #: Analytical Part #:	LOB#: □28 □26 ⊠24 □20 □19
Sales Name: Jose Quintana Employee #: 6758 Rep. 1	Email: jose.quintana@safety-kleen.com Location/Branch #: 600202
A. CUSTOMER INFORMATION	☐ Check if Billing Same
Generator Wood Group ESP, Inc.	Billing Company Wood Group ESP, Inc.
Facility Address (No P.O. Box) 8426 N. Dal Paso	Billing Address 2707 S. County Road 1208
	City/State/Zip Midland, TX 79706
City/State/Zip Hobbs, NM 88240	
Technical Contact Galen Goodman	Phone 432-848-0157 FAX 432-689-2534
Phone \$32-848-0157 FAX 432-689-2534	Email Galen.Goodman@woodgroup.com
NAICS # CESQG SQG LQG EPA ID#	# State ID#
B. SHIPPING INFORMATION US DOT Shipping Name	
Hazardous Class/Division # UN/NA #	Packing Group RQ
Size 5000 Container Type tanker	Quantity 8500 gal. Frequency one time
C. GENERAL MATERIAL & REGULATORY INFORMATION	Qualitity 5500 gai. Troducito one time
Name of Material haz-wastewater	
Process Generating the Material <u>maintenance cleanup of wastewater recycler</u> Yes No	
<u> </u>	Yes No
	Contains UHCs/Constituents of Concern: List in section D
Regulated Medical/Infectious Waste	Exempt Waste: If yes, list ref. 40 CFR
	For Artesia, MS: Does waste material contain, or is derived from, dioxin-listed wastes with F020-F023 or F027 waste codes?
	☐ State Hazardous Waste: List Codes
,	D002, D024, D025, D005,
☐ ☐ Regulated Ozone Depleting Substance	EPA Hazardous Waste: List Codes
☐ ☐ CERCLA Regulated (Superfund) Waste	Source Code G 19 Form Code W 113 Mgt. Method H
D. MATERIAL COMPOSITION (Range Total > or = 100%) or ppm	E. REACTIVE CHARACTERITSTICS Yes□ No⊠ Oxidizer
haz wastewater 100%	Yes□ No⊠ React. Sulfides ppm Yes□ No⊠ Shock/Explosive
Taz wasewater	
	Yes□ No⊠ Water/Air (Pyrophoric) React. Yes□ No⊠ Other-Comments
	Elemental Constituents (ppm):
	☐ No detectable Elements Sb As Ba _X
	Be Cd Cr _X Pb _X Hg
	Ni Se Ag Tl V
	Metals Data based on: ☑TCLP ☐Total Analysis ☐Generator Knowledge (no testing)
	F. PHYSICAL CHARACTERISTICS
	Flash Point: >150 °F (if <73°F) pH Range:
	□ 73-<100 □ 100-141 □ >2-4 □ >4-10
	□ 142-<200
<u>-</u>	# Phases 1 % Liquid 100% Viscosity cps >1
☐ MSDS Attached Total: 100%	% Sludge % Solid % Halogens
	BTU's/lb: >1
G. COMMENTS	
Customer Restrictions: Yes 🛛 No	
H. GENERATOR'S CERTIFICATION	
I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the g	generator that the information supplied on this form and on any attachments or supplements hereto is
information supplied on this form, that either Safety-Kleen or the generator may initiate furth	herein have been disclosed. I agree that if the sample test results indicate a discrepancy with any er testing and evaluation in accordance with the terms and conditions of the contract between Safety-Kleen
and the generator and that this profile certification may be amended accordingly.	
Generator Signature: Printe	ed Name and Title: Mark J. Larson, Consultant Date: 02/17/2007



RECEIVED

FFB 22 2007

February 17, 2007

Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

VIA EMAIL: <u>james.valdez@state.nm.us</u> VIA CERTIFIED MAIL

Mr. James Valdez Management Analyst Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505

Re: Request for One-Time Exemption for Disposal of Hazardous Wastewater, Wood Group ESP, Inc., 8426 North Dal Paso, Hobbs, New Mexico

Dear Mr. Valdez:

This letter is submitted to the New Mexico Environment Department (NMED) Hazardous Waste Bureau on behalf of Wood Group ESP, Inc. (WGESP) by Larson and Associates, Inc. (LA), its agent, to request a one-time exemption to dispose of approximately 8,250 gallons (196 barrels) of hazardous wastewater from the Hobbs Test Shop (Facility) located at 8426 North Dal Paso in Hobbs, New Mexico. The technical contact for WGESP is as follows:

Name:

Mr. Galen Goodman

Title:

Senior HES Advisor

Mailing Address:

2707 South County Road 1208

Midland, Texas 79706

Telephone (direct):

(432) 848-0157

Fax:

(432) 689-2534

Mobile:

(432) 557-5129

Email:

Galen.Goodman@woodgroup.com

The Facility is a service center for electric submersible pumps used in the oil and gas industry and operates under New Mexico Oil Conservation Division (NMOCD) Discharge Permit GW-164. The Facility uses fresh water to flush waste from the pumps and dilute hydrochloric acid to remove scale. In August 2006, WGESP discovered that industrial equipment used to neutralize the pH of the process water had failed and resulted in a pH decrease that caused internal corrosion of the pump components and the accumulation of barium, chromium III and lead at concentrations above the NMED hazardous thresholds. Benzene and m,p-cresol were also detected in the process water. WGESP has discontinued the use of the industrial process equipment.

Mr. James Valdez February 17, 2007 Page 2

During a meeting with the NMOCD on January 11, 2007, Mr. Wayne Price, Environmental Bureau Chief, contacted the NMED Hazardous Waste Bureau Chief to discuss the opportunity for WGESP to obtain a one-time exemption for disposal of the hazardous wastewater. WGESP and LA representatives visited with you on January 11, 2007, and obtained the attached form.

Safety-Kleen Corporation (TXD981056690) located at 10607 WCR 127 in Midland, Texas, has been selected to transport the hazardous wastewater to Safety-Kleen Systems, Inc. (TXD077603371) located at 1722 Cooper Creek Road in Denton, Texas (TCEQ Waste Registration Number 65024) where the hazardous wastewater will be disposed in a regulatory-accepted manner. An expedited approval of this one-time exemption request would be greatly appreciated since transportation has been requested for February 20, 2007. Attachment A presents the completed one-time exemption form. Appendix B presents the wastewater laboratory analysis. Please contact Mr. Galen Goodman with questions at (432) 848-0157 or email Galen.Goodman@woodgroup.com I may be reached with questions at (432) 687-0901 or mark@laenvironmental.com. Sincerely.

Larson and Associates, Inc.

Mark J. Larson, P.G., C.P.G., C.G.W.P.

Sr. Project Manager / President

Encl.

cc: Mr. Wayne Price/NMOCD – Santa Fe

Mr. Larry Johnson/NMOCD - District 1

Mr. Jeff Beighle/WGESP

Mr. Mike Nieman/WGESP

Mr. Galen Goodman/WGESP

Mr. Mark Neinast/WGESP

Mr. Rod Burrola/WGESP

ATTACHMENT A

One-Time Exemption Request Form

Today's Date : 02-17-2007 Time : 15:35 CST NMED Staff :	Shipping Date : 02-20-2007	Provisional #:
Requestor's Name : Mark J. Larson, Agent Phone #: (432) 687-0901 Facility Name : Wood Group ESP, Inc. Physical Address: 8426 N. Dal Paso, Hobbs, NM 88240 Contact Person: Rod Burrola Phone #: (505) 738-1213 Facility Ownership : Wood Group ESP, Inc. Address : 5500 s.E. 59th st., Oklahoma City, OK 73125 Type of Hazardous Waste Activity (description): Process water containing low pH, chromium III, barium, lead, benzene m,p-cresol resulting from failure of treatment process. Amount of Waste: Approximate volume: 8,250 gallons (196 barrels) Waste Description (EPA Waste Codes): D018 (benzene), D002 (corrosivity), D024/D025 (m,p-cresol), D005 (barium), D007 (chromium) and D008 (lead). Transporter : Safety-Kleen Corporation (TXD981056690) Address : 10607 WCR 127, Midland, Texas 79711 Final Destination (TSD) : Safety-Kleen Systems, Inc. (TXD077603371) Address : 1722 Cooper Creek Road Denton, Texas76208	Today's Date : 02-17-2007	Time : 15:35 CST
Facility Name : Wood Group ESP, Inc. Physical Address: 8426 N. Dal Paso, Hobbs, NM 88240 Contact Person: Rod Burrola Phone #: (505) 738-1213 Facility Ownership : Wood Group ESP, Inc. Address : 5500 S.E. 59th St., Oklahoma City, OK 73125 Type of Hazardous Waste Activity (description): Process water containing low pH, chromium III, barium, lead, benzenem, p-cresol resulting from failure of treatment process. Amount of Waste: Approximate volume: 8,250 gallons (196 barrels) Waste Description (EPA Waste Codes): D018 (benzene), D002 (corrosivity), D024/D025 (m,p-cresol), D005 (barium), D007 (chromium) and D008 (lead). Transporter : Safety-Kleen Corporation (TXD981056690) Address : 10607 WCR 127, Midland, Texas 79711 Final Destination (TSD) : Safety-Kleen Systems, Inc. (TXD077603371) Address : 1722 Cooper Creek Road Denton, Texas76208	NMED Staff : Charlotte Duran	
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Contact Person: Rod Burrola Phone #: (505) 738-1213 Facility Ownership : Wood Group ESP, Inc.	Facility Name : Wood Group E	ESP, Inc.
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Amount of Waste: Approximate volume: 8,250 gallons (196 barrels) Waste Description (EPA Waste Codes): DO18 (benzene), DO02 (corrosivity), D024/D025 (m,p=cresol), D005 (barium), D007 (chromium) and D008 (lead). Transporter : Safety-Kleen Corporation (TXD981056690) Address : 10607 WCR 127, Midland, Texas 79711 Final Destination (TSD) : Safety-Kleen Systems, Inc. (TXD077603371) Address : 1722 Cooper Creek Road Denton, Texas76208	Type of Hazardous Waste Activity	(description):
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Address: 1722 Cooper Creek Road Denton, Texas76208	Final Destination (TSD) : Safety	y-Kleen Systems, Inc. (TXD077603371)

ATTACHMENT B

Laboratory Analysis



6701 Aberdeen Avenue, Suite 9 155 McCutcheon, Suite H

Lubbock, Texas 79424 El Paso, Texas 79932

888 • 588 • 3443

806 • 794 • 1296 915 • 585 • 3443 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

Mark Larson Larson and Associates, Inc. P. O. Box 50685 Midland, Tx, 79710

Report Date: December 13, 2006

Work Order: 6120117

Project Name:

Hobbs Facility

Project Number: 6-0142

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

		-	Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
110219	Wastewater	water	2006-11-29	15:00	2006-11-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

> Michael abel Dr. Blair Leftwich, Director

Standard Flags

 $\boldsymbol{B}\,$ - The sample contains less than ten times the concentration found in the method blank.

6-0142

Page Number: 2 of 14

Analytical Report

Sample: 110219 - Wastewater

Analysis: RCI (water) Analytical Method: S 1110 Prep Method: N/A QC Batch: 32687 Date Analyzed: 2006-12-11 Analyzed By: SM Prep Batch: 28436 Sample Preparation: 2006-12-07 Prepared By: SM RCI (water) Analysis: Analytical Method: S 1010 Prep Method: N/A Analysis: RCI (water) Analytical Method: ASTM D 5049-90/4978-95 Prep Method: N/A

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Reactivity		non-reactive		1	0.00
Hydrogen Sulfide		<10.0	mg/L	1	10.0
Hydrogen Cyanide		< 2.50	mg/L	1	2.50
Corrosivity	1	corrosive	mm/yr	1	0.00
pH		< 2.5	s.u.	1	0.00
Flashpoint		> 150	°F	1	0.00

Sample: 110219 - Wastewater

Analysis: **TCLP Semivolatiles** Analytical Method: S 8270C Prep Method: **TCLP 1311** QC Batch: 32579 Date Analyzed: 2006-12-05 Analyzed By: DS Prep Batch: 28351 Sample Preparation: 2006-12-05 Prepared By: DS TCLP Extraction: 2006-12-05 Prepared By: DS

·		RL		•	
Parameter	Flag	Result	Units	Dilution	RL
Pyridine		< 0.0500	mg/L	1	0.0500
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	1	0.0500
o-Cresol		< 0.0500	mg/L	1	0.0500
m,p-Cresol		0.0923	mg/L	1	0.0500
Hexachloroethane		< 0.0500	mg/L	1	0.0500
Nitrobenzene		< 0.0500	mg/L	1	0.0500
Hexachlorobutadiene		< 0.0500	mg/L	1	0.0500
2,4,6-Trichlorophenol		< 0.0500	mg/L	1	0.0500
2,4,5-Trichlorophenol		< 0.0500	mg/L	1	0.0500
2,4-Dinitrotoluene		< 0.0500	mg/L	1	0.0500
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	1	0.0500
Hexachlorobenzene	•	< 0.0500	mg/L	1	0.0500
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	1	0.0500
Pentachlorophenol		< 0.0500	mg/L	1	0.0500

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.177	mg/L	1	0.400	44	10 - 110.33
Phenol-d5		0.0776	mg/L	1	0.400	19	10 - 82.08
Nitrobenzene-d5		0.277	mg/L	1	0.400	69	26.72 - 155
2-Fluorobiphenyl		0.351	mg/L	1	0.400	88	35.89 - 150.5
2,4,6-Tribromophenol		0.478	mg/L	1	0.400	120	10 - 204.91
Terphenyl-d14		0.499	mg/L	1	0.400	125	33.98 - 168.85

¹Corrosive by pH •

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	32539	Date Analyzed:	2006-12-06	Analyzed By:	RR
Prep Batch:	28309	Sample Preparation:	2006-12-06	Prepared By:	TS
		TCLP Extraction:	2006-12-05	Prepared By:	TS
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	32585	Date Analyzed:	2006-12-07	Analyzed By:	TS
Prep Batch:	28354	Sample Preparation:	2006-12-06	Prepared By:	TS
		TCLP Extraction:	2006-12-06	Prepared By:	TS

RL

Flag]

Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver		< 0.125	mg/L	1	0.125
TCLP Arsenic		< 0.100	mg/L	1	0.100
TCLP Barium		1.58	mg/L	1	0.100
TCLP Cadmium		< 0.0500	mg/L	1	0.0500
TCLP Chromium		27.1	mg/L	1	0.100
TCLP Mercury		< 0.000500	mg/L	1	0.000500
TCLP Lead		18.3	mg/L	1	0.100
TCLP Selenium		< 0.500	mg/L	1	0.500

Sample: 110219 - Wastewater

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	Prep Method:	TCLP 1311
QC Batch:	32765	Date Analyzed:	2006-12-12	Analyzed By:	JG ·
Prep Batch:	28501	Sample Preparation:	2006-12-12	Prepared By:	JG
		TCLP Extraction:	2006-12-12	Prepared By:	JG

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Vinyl Chloride		< 0.0500	mg/L	50	0.00100
1,1-Dichloroethene		< 0.0500	mg/L	50	0.00100
2-Butanone (MEK)		< 0.500	mg/L	50	0.0100
Chloroform		< 0.0500	mg/L	50	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	mg/L	50	0.00100
Benzene		0.278	mg/L	50	0.00100
Carbon Tetrachloride		< 0.0500	mg/L	50	0.00100
Trichloroethene (TCE)	•	< 0.0500	mg/L	50	0.00100
Tetrachloroethene (PCE)	\boldsymbol{B}	< 0.0500	mg/L	50	0.00100
Chlorobenzene		< 0.0500	mg/L	50	0.00100
1.4-Dichlorobenzene (para)		< 0.0500	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.0	mg/L	50	50.0	102	70 - 130
Toluene-d8		51.5	mg/L	50	50.0	103	70 - 130
4-Bromofluorobenzene (4-BFB)		46.8	mg/L	50	50.0	94	70 - 130

Report Date: December 13, 2006

6-0142

Work Order: 6120117 Hobbs Facility

Page Number: 4 of 14

Method Blank (1)

QC Batch: 32539

QC Batch: 32539 Prep Batch: 28309 Date Analyzed: 2006-12-06 QC Preparation: 2006-12-06 Analyzed By: RR Prepared By: TS

MDL

		MDL		
Parameter	Flag	Result	Units	RL
TCLP Silver		< 0.00780	mg/L	0.125
TCLP Arsenic		< 0.0590	mg/L	0.1
TCLP Barium		< 0.00340	mg/L	0.1
TCLP Cadmium		< 0.00200	mg/L	0.05
TCLP Chromium		< 0.00600	mg/L	0.1
TCLP Lead		< 0.0370	mg/L	0.1
TCLP Selenium		< 0.100	mg/L	0.5

Method Blank (1)

QC Batch: 32579

QC Batch: 32579 Prep Batch: 28351 Date Analyzed: 2006-12-05 QC Preparation: 2006-12-05 Analyzed By: DS

Prepared By: DS

		MDL		
Parameter	Flag	Result	Units	RL
Pyridine		< 0.0100	mg/L	0.05
1,4-Dichlorobenzene (para)		< 0.0100	mg/L	0.05
o-Cresol		< 0.0100	mg/L	0.05
m,p-Cresol		< 0.0100	mg/L	0.05
Hexachloroethane	•	< 0.0100	mg/L	0.05
Nitrobenzene		< 0.0100	mg/L	0.05
Hexachlorobutadiene		< 0.0100	mg/L	0.05
2,4,6-Trichlorophenol		< 0.0100	mg/L	0.05
2,4,5-Trichlorophenol		< 0.0100	mg/L	0.05
2,4-Dinitrotoluene		< 0.0100	mg/L	0.05
2,4-Dichlorophenoxyacetic acid		< 0.0100	mg/L	0.05
Hexachlorobenzene		< 0.0100	mg/L	0.05
2,4,5-Trichlorophenoxyproprionic acid		< 0.0100	mg/L	0.05
Pentachlorophenol		< 0.0100	mg/L	0.05

					Spike	Percent	Recovery
Surrogate	Flag	Result Units		Dilution	Amount	Recovery	Limits
2-Fluorophenol		0.119	mg/L	1	0.400	30	10 - 110.33
Phenol-d5		0.111	mg/L	1	0.400	28	10 - 82.08
Nitrobenzene-d5		0.156	mg/L	1	0.400	39	26.72 - 155
2-Fluorobiphenyl		0.331	mg/L	1	0.400	83	35.89 - 150.5
2,4,6-Tribromophenol		0.298	mg/L	1	0.400	74	10 - 204.91
Terphenyl-d14		0.504	mg/L	1	0.400	126	33.98 - 168.85

Method Blank (1)

QC Batch: 32585

QC Batch: Prep Batch: 28354 Date Analyzed: 2006-12-07 QC Preparation: 2006-12-07 Analyzed By: TS Prepared By: TS Report Date: December 13, 2006

6-0142

Work Order: 6120117 **Hobbs Facility**

Page Number: 5 of 14

		MDL		
Parameter	Flag	Result	Units	RL
TCLP Mercury		< 0.0000360	mg/L	0.0005

Method Blank (1)

QC Batch: 32765

QC Batch: Prep Batch: 28501

32765

Date Analyzed:

2006-12-12 QC Preparation: 2006-12-12 Analyzed By: JG

Prepared By: JG

		MDL		
Parameter	Flag	Result	Units	RL
Vinyl Chloride		< 0.00675	mg/L	0.001
1,1-Dichloroethene		< 0.00680	mg/L	0.001
2-Butanone (MEK)		< 0.0266	mg/L	0.01
Chloroform		< 0.00705	mg/L	0.001
1,2-Dichloroethane (EDC)		< 0.00565	mg/L	0.001
Benzene		< 0.00730	mg/L	0.001
Carbon Tetrachloride		< 0.00395	mg/L	0.001
Trichloroethene (TCE)		< 0.00585	mg/L	0.001
Tetrachloroethene (PCE)		0.0180	mg/L	0.001
Chlorobenzene		< 0.00270	mg/L	0.001
1,4-Dichlorobenzene (para)		< 0.0108	mg/L	0.001

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane		52.4	mg/L	50	50.0	105	70 - 130
Toluene-d8		51.0	mg/L	50	50.0	102	70 - 130
4-Bromofluorobenzene (4-BFB)		44.7	mg/L	50	50.0	89	70 - 130

Duplicates (1)

QC Batch:

32687

Prep Batch: 28436

Date Analyzed:

2006-12-11 QC Preparation: 2006-12-07

Prepared By: SM

Analyzed By: SM

	Duplicate	Sample		RPD		
Param	Result	Result	Units	Dilution	RPD	Limit
Reactivity	non-reactive	non-reactive		1	0	20
Hydrogen Sulfide	0.00	0.00	mg/L	1	0	20
Hydrogen Cyanide	0.00	0.00	mg/L	1	0	20
Corrosivity	non-corrosive	non-corrosive	mm/yr	1	0	0
pH	6.78	6.78	s.u.	1	0	0.7
Flashpoint	> 150	> 150	°F	1	0	4.6

Laboratory Control Spike (LCS-1)

QC Batch:

32539

Prep Batch: 28309

Date Analyzed:

QC Preparation: 2006-12-06

2006-12-06

Analyzed By: RR

Prepared By:

6-0142

Work Order: 6120117 Hobbs Facility Page Number: 6 of 14

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
TCLP Silver	1.19	mg/L	1	1.25	< 0.00780	95	81.7 - 115
TCLP Arsenic	4.88	mg/L	1	5.00	< 0.0590	98	83.1 - 110
TCLP Barium	9.48	mg/L	1	10.0	< 0.00340	95	83.5 - 116
TCLP Cadmium	2.39	mg/L	1	2.50	< 0.00200	96	86.7 - 108
TCLP Chromium	1.02	mg/L	1	1.00	< 0.00600	102	84.9 - 118
TCLP Lead	4.95	mg/L	1	5.00	< 0.0370	99	84.8 - 109
TCLP Selenium	4.52	mg/L	1	5.00	< 0.100	90	79.7 - 101

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TCLP Silver	1.18	mg/L	1	1.25	< 0.00780	94	81.7 - 115	1	20
TCLP Arsenic	4.83	mg/L	1	5.00	< 0.0590	97	83.1 - 110	1	20
TCLP Barium	9.47	mg/L	1	10.0	< 0.00340	95	83.5 - 116	0	20
TCLP Cadmium	2.38	mg/L	1	2.50	< 0.00200	95	86.7 - 108	0	20
TCLP Chromium	1.02	mg/L	1	1.00	< 0.00600	102	84.9 - 118	0	20
TCLP Lead	4.94	mg/L	1	5.00	< 0.0370	99	84.8 - 109	0	20
TCLP Selenium	4.50	mg/L	1	5.00	< 0.100	90	79.7 - 101	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 32579 Prep Batch: 28351 Date Analyzed: 2006-12-05 QC Preparation: 2006-12-05 Analyzed By: DS Prepared By: DS

		LCS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
Pyridine		0.181	mg/L	1	0.400	< 0.0100	45	12.6 - 50.02
1,4-Dichlorobenzene (para)		0.293	mg/L	1	0.400	< 0.0100	73	13.67 - 139.56
o-Cresol		0.277	mg/L	1	0.400	< 0.0100	69	18.58 - 114.05
m,p-Cresol		0.497	mg/L	1	0.400	< 0.0100	124	10.62 - 252.59
Hexachloroethane		0.371	mg/L	1	0.400	< 0.0100	93	25.17 - 146.78
Nitrobenzene		0.385	mg/L	1	0.400	< 0.0100	96	26.78 - 144.08
Hexachlorobutadiene		0.422	mg/L	1	0.400	< 0.0100	106	10 - 171.61
2,4,6-Trichlorophenol		0.408	mg/L	1	0.400	< 0.0100	102	19.23 - 144.93
2,4,5-Trichlorophenol		0.434	mg/L	1	0.400	< 0.0100	108	40.38 - 144.67
2,4-Dinitrotoluene		0.226	mg/L	1	0.400	< 0.0100	56	18.51 - 158.26
2,4-Dichlorophenoxyacetic acid		0.375	mg/L	1	0.400	< 0.0100	94	10 - 165.81
Hexachlorobenzene		0.371	mg/L	1	0.400	< 0.0100	93	2.35 - 182.77
2,4,5-Trichlorophenoxyproprionic acid		0.480	mg/L	1	0.400	< 0.0100	120	22.1 - 144.74
Pentachlorophenol	2	0.650	mg/L	1	0.400	< 0.0100	162	10 - 156.72

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD	LCSD			Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Pyridine	0.166	mg/L	1	0.400	< 0.0100	42	12.6 - 50.02	9	20
1,4-Dichlorobenzene (para)	0.276	mg/L	1	0.400	< 0.0100	69	13.67 - 139.56	6	20
o-Cresol	0.261	mg/L	1	0.400	< 0.0100	65	18.58 - 114.05	6	20
continued									

²Pentachlorophenol out of conrol limits for LCS/LCSD. Matrix spike recoveries are within limits showing process is within control. •

Work Order: 6120117 Hobbs Facility Page Number: 7 of 14

control spikes continued ...

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
m,p-Cresol	0.455	mg/L	1	0.400	< 0.0100	114	10.62 - 252.59	9	20
Hexachloroethane	0.358	mg/L	1	0.400	< 0.0100	90	25.17 - 146.78	4	20
Nitrobenzene	0.378	mg/L	1	0.400	< 0.0100	94	26.78 - 144.08	- 2	20
Hexachlorobutadiene	0.428	mg/L	1	0.400	< 0.0100	107	10 - 171.61	1	20
2,4,6-Trichlorophenol	0.405	mg/L	1	0.400	< 0.0100	101	19.23 - 144.93	1	20
2,4,5-Trichlorophenol	0.427	mg/L	1	0.400	< 0.0100	107	40.38 - 144.67	2	20
2,4-Dinitrotoluene	0.217	mg/L	1	0.400	< 0.0100	54	18.51 - 158.26	4	20
2,4-Dichlorophenoxyacetic acid	0.350	mg/L	1	0.400	< 0.0100	88	10 - 165.81	7	20
Hexachlorobenzene	0.349	mg/L	1	0.400	< 0.0100	87	2.35 - 182.77	6	20
2,4,5-Trichlorophenoxyproprionic acid	0.453	mg/L	1	0.400	< 0.0100	113	22.1 - 144.74	6	20
Pentachlorophenol	0.675	mg/L	1	0.400	< 0.0100	169	10 - 156.72	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
2-Fluorophenol	0.0879	0.111	mg/L	1	0.400	22	28	10 - 110.33
Phenol-d5	0.0722	0.0674	mg/L	1	0.400	18	17	10 - 82.08
Nitrobenzene-d5	0.332	0.328	mg/L	1	0.400	83	82	26.72 - 155
2-Fluorobiphenyl	0.446	0.442	mg/L	1	0.400	112	110	35.89 - 150.5
2,4,6-Tribromophenol	0.415	0.390	mg/L	1	0.400	104	98	10 - 204.91
Terphenyl-d14	0.526	0.512	mg/L	1	0.400	132	128	33.98 - 168.85

Laboratory Control Spike (LCS-1)

QC Batch: 32585 Prep Batch: 28354 Date Analyzed: 2006-12-07 QC Preparation: 2006-12-07 Analyzed By: TS Prepared By: TS

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
TCLP Mercury	0.00527	mg/L	1	0.00500	< 0.0000360	105	92.7 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TCLP Mercury	0.00481	mg/L	1	0.00500	< 0.0000360	96	92.7 - 120	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 32765 Prep Batch: 28501 Date Analyzed: 2006-12-12 QC Preparation: 2006-12-12 Analyzed By: JG Prepared By: JG

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Vinyl Chloride	5.40	mg/L	50	5.00	< 0.00675	108	73.4 - 124
1,1-Dichloroethene	5.48	mg/L	50	5.00	< 0.00680	110	81 - 119

continued . . .

³ Pentachlorophenol out of conrol limits for LCS/LCSD. Matrix spike recoveries are within limits showing process is within control. •

6-0142

Work Order: 6120117 Hobbs Facility Page Number: 8 of 14

control spikes continued ...

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
2-Butanone (MEK)	4.60	mg/L	50	5.00	< 0.0266	92	39.5 - 116
Chloroform	5.11	mg/L	50	5.00	< 0.00705	102	77.4 - 113
1,2-Dichloroethane (EDC)	5.05	mg/L	50	5.00	< 0.00565	101	77.2 - 120
Benzene	5.03	mg/L	50	5.00	< 0.00730	101	80.2 - 106
Carbon Tetrachloride	5.20	mg/L	50	5.00	< 0.00395	104	68.8 - 132
Trichloroethene (TCE)	5.38	mg/L	50	5.00	< 0.00585	108	80.9 - 113
Tetrachloroethene (PCE)	4.96	mg/L	50	5.00	0.018	99	47.9 - 111
Chlorobenzene	5.21	mg/L	50	5.00	< 0.00270	104	82.9 - 109
1,4-Dichlorobenzene (para)	5.14	mg/L	50	5.00	< 0.0108	103	70.9 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

		LCSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Vinyl Chloride	•	5.07	mg/L	50	5.00	< 0.00675	101	73.4 - 124	6	20
1,1-Dichloroethene		5.14	mg/L	50	5.00	< 0.00680	103	81 - 119	6	20
2-Butanone (MEK)		4.36	mg/L	50	5.00	< 0.0266	87	39.5 - 116	5	20
Chloroform		4.78	mg/L	50	5.00	< 0.00705	96	77.4 - 113	7	20
1,2-Dichloroethane (EDC)		4.76	mg/L	50	5.00	< 0.00565	95	77.2 - 120	6	20
Benzene	4	5.47	mg/L	50	5.00	< 0.00730	109	80.2 - 106	8	20
Carbon Tetrachloride		4.78	mg/L	50	5.00	< 0.00395	96	68.8 - 132	8	20
Trichloroethene (TCE)		5.00	mg/L	50	5.00	< 0.00585	100	80.9 - 113	7	20
Tetrachloroethene (PCE)		4.60	mg/L	50	5.00	0.018	92	47.9 - 111	8	20
Chlorobenzene		4.82	mg/L	50	5.00	< 0.00270	96	82.9 - 109	8	20
1,4-Dichlorobenzene (para)	•	4.76	mg/L	50	5.00	< 0.0108	95	70.9 - 108	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Dibromofluoromethane	50.4	51.1	mg/L	50	50.0	101	102	86.7 - 111
Toluene-d8	50.5	50.0	mg/L	50	50.0	101	100	93.6 - 108
4-Bromofluorobenzene (4-BFB)	46.4	45.1	mg/L	50	50.0	93	90	88.4 - 110

Matrix Spike (MS-1) Spiked Sample: 110458

QC Batch: 32539 Prep Batch: 28309 Date Analyzed: 2006-12-06 QC Preparation: 2006-12-06

Analyzed By: RR Prepared By: TS

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
TCLP Silver	1.21	mg/L	1	1.25	< 0.00780	97	80.3 - 117
TCLP Arsenic	4.71	mg/L	1	5.00	< 0.0590	94	83.6 - 116
TCLP Barium	10.7	mg/L	1	10.0	0.904	98	81.2 - 113
TCLP Cadmium	2.49	mg/L	1	2.50	< 0.00200	100	75 - 117
TCLP Chromium	1.20	mg/L	1	1.00	0.144	106	75 - 125
TCLP Lead	4.89	mg/L	1	5.00	0.186	94	79.8 - 110
TCLP Selenium	4.44	mg/L	1	5.00	< 0.100	89	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁴LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therfore, LCS shows extraction occured properly.

6-0142

Work Order: 6120117 Hobbs Facility Page Number: 9 of 14

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TCLP Silver	1.21	mg/L	1	0.00	< 0.00780	97	80.3 - 117	0	20
TCLP Arsenic	4.87	mg/L	1	0.00	< 0.0590	97	83.6 - 116	3	20.
TCLP Barium	10.7	mg/L	1	0.00	0.904	98	81.2 - 113	0	20
TCLP Cadmium	2.47	mg/L	1	0.00	< 0.00200	99	75 - 117	1	20
TCLP Chromium	1.20	mg/L	1	0.00	0.144	106	75 - 125	0	20
TCLP Lead	4.85	mg/L	1	0.00	0.186	93	79.8 - 110	1	20
TCLP Selenium	4.60	mg/L	1	0.00	< 0.100	92	75 - 125	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 110465

QC Batch: 32579 Prep Batch: 28351 Date Analyzed: 2006-12-05 QC Preparation: 2006-12-05 Analyzed By: DS Prepared By: DS

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Pyridine	0.0714	mg/L	1	0.400	< 0.0100	18	12.6 - 50.02
1,4-Dichlorobenzene (para)	0.311	mg/L	1	0.400	< 0.0100	78	13.67 - 139.56
o-Cresol	0.292	mg/L	1	0.400	< 0.0100	73	18.58 - 114.05
m,p-Cresol	0.529	mg/L	1	0.400	< 0.0100	132	10.62 - 252.59
Hexachloroethane	0.407	mg/L	1	0.400	< 0.0100	102	25.17 - 146.78
Nitrobenzene	0.424	mg/L	1	0.400	< 0.0100	106	26.78 - 144.08
Hexachlorobutadiene	0.482	mg/L	1	0.400	< 0.0100	120	10 - 171.61
2,4,6-Trichlorophenol	0.451	mg/L	1	0:400	< 0.0100	113	19.23 - 144.93
2,4,5-Trichlorophenol	0.326	mg/L	1	0.400	< 0.0100	82	40.38 - 144.67
2,4-Dinitrotoluene	0.211	mg/L	1	0.400	< 0.0100	53	18.51 - 158.26
2,4-Dichlorophenoxyacetic acid	0.350	mg/L	1	0.400	< 0.0100	88	10 - 165.81
Hexachlorobenzene	0.385	mg/L	1	0.400	< 0.0100	96	2.35 - 182.77
2,4,5-Trichlorophenoxyproprionic acid	0.504	mg/L	1	0.400	< 0.0100	126	22.1 - 144.74
Pentachlorophenol	0.602	mg/L	1	0.400	< 0.0100	150	10 - 156.72

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Pyridine	0.0714	mg/L	1	0.400	< 0.0100	18	12.6 - 50.02	0	20
1,4-Dichlorobenzene (para)	0.347	mg/L	1	0.400	< 0.0100	87	13.67 - 139.56	11	20
o-Cresol	0.289	mg/L	1	0.400	< 0.0100	72	18.58 - 114.05	1	20
m,p-Cresol	0.497	mg/L	1	0.400	< 0.0100	124	10.62 - 252.59	6	20
Hexachloroethane	0.431	mg/L	1	0.400	< 0.0100	108	25.17 - 146.78	6	20
Nitrobenzene	0.451	mg/L	1	0.400	< 0.0100	113	26.78 - 144.08	6	20
Hexachlorobutadiene	0.523	mg/L	1	0.400	< 0.0100	131	10 - 171.61	8	20
2,4,6-Trichlorophenol	0.471	mg/L	1	0.400	< 0.0100	118	19.23 - 144.93	4	20
2,4,5-Trichlorophenol	0.347	mg/L	1	0.400	< 0.0100	87	40.38 - 144.67	6	20
2,4-Dinitrotoluene	0.193	mg/L	1	0.400	< 0.0100	48	18.51 - 158.26	9	20
2,4-Dichlorophenoxyacetic acid	0.369	mg/L	1	0.400	< 0.0100	92	10 - 165.81	5	20
Hexachlorobenzene	0.402	mg/L	1	0.400	< 0.0100	100	2.35 - 182.77	4	20
2,4,5-Trichlorophenoxyproprionic acid	0.496	mg/L	1	0.400	< 0.0100	124	22.1 - 144.74	2	20
Pentachlorophenol	0.608	mg/L	1	0.400	< 0.0100	152	10 - 156.72	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: December 13, 2006

6-0142

Work Order: 6120117 **Hobbs Facility**

Page Number: 10 of 14

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
2-Fluorophenol	0.106	0.126	mg/L	1	0.4	26	32	10 - 110.33
Phenol-d5	0.0683	0.0736	mg/L	1	0.4	17	18	10 - 82.08
Nitrobenzene-d5	0.370	0.365	mg/L	1	0.4	92	91	26.72 - 155
2-Fluorobiphenyl	0.458	0.482	mg/L	1	0.4	114	120	35.89 - 150.5
2,4,6-Tribromophenol	0.373	0.402	mg/L	1	0.4	93	100	10 - 204.91
Terphenyl-d14	0.505	0.519	mg/L	1	0.4	126	130	33.98 - 168.85

Matrix Spike (MS-1) Spiked Sample: 110458

QC Batch:

32585

Date Analyzed:

2006-12-07

Analyzed By: TS

Prep Batch: 28354

QC Preparation: 2006-12-07

Prepared By:

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
TCLP Mercury	0.00536	mg/L	1	0.00500	0.00041	99	80 - 119

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TCLP Mercury	0.00551	mg/L	1	0.00	0.00041	102	80 - 119	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 110465

QC Batch:

32765

Date Analyzed:

2006-12-12

Analyzed By: JG

Prep Batch: 28501

QC Preparation: 2006-12-12

Prepared By: JG

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Vinyl Chloride	5.09	mg/L	50	5.00	< 0.00675	102	70.7 - 124
1,1-Dichloroethene	5.30	mg/L	50	5.00	< 0.00680	106	80.6 - 122
2-Butanone (MEK)	4.81	mg/L	50	5.00	< 0.0266	96	22.8 - 139
Chloroform	4.96	mg/L	50	5.00	< 0.00705	99	79.2 - 115
1,2-Dichloroethane (EDC)	4.86	mg/L	50	5.00	< 0.00565	97	75.3 - 129
Benzene	5.54	mg/L	50	5.00	0.312	104	81.7 - 109
Carbon Tetrachloride	4.88	mg/L	50	5.00	< 0.00395	98	68.6 - 135
Trichloroethene (TCE)	5.15	mg/L	50	5.00	< 0.00585	103	82.3 - 115
Tetrachloroethene (PCE)	4.73	mg/L	50	5.00	< 0.0135	95	45.9 - 114
Chlorobenzene	4.86	mg/L	50	5.00	< 0.00270	97	82.9 - 111
1,4-Dichlorobenzene (para)	4.61	mg/L	50	5.00	< 0.0108	92	69.6 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Vinyl Chloride	5.04	mg/L	50	5.00	< 0.00675	101	70.7 - 124	1	20
1,1-Dichloroethene	5.28	mg/L	50	5.00	< 0.00680	106	80.6 - 122	0	20
2-Butanone (MEK)	4.82	mg/L	50	5.00	< 0.0266	96	22.8 - 139	0	20
Chloroform	4.92	mg/L	50	5.00	< 0.00705	98	79.2 - 115	1	20

continued ...

Report Date: December 13, 2006 6-0142

Work Order: 6120117 Hobbs Facility Page Number: 11 of 14

matrix	snikes	continued	,	
mun w	opnes	COMMINGE		•

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
1,2-Dichloroethane (EDC)	4.88	mg/L	50	5.00	< 0.00565	98	75.3 - 129	0	20
Benzene	5.54	mg/L	50	5.00	0.312	104	81.7 - 109	0	20
Carbon Tetrachloride	4.89	mg/L	50	5.00	< 0.00395	98	68.6 - 135	0	20
Trichloroethene (TCE)	5.15	mg/L	50	5.00	< 0.00585	103	82.3 - 115	0	20
Tetrachloroethene (PCE)	4.75	mg/L	50	5.00	< 0.0135	95	45.9 - 114	0	20
Chlorobenzene	4.88	mg/L	50	5.00	< 0.00270	98	82.9 - 111	0	20
1,4-Dichlorobenzene (para)	4.63	mg/L	50	5.00	< 0.0108	93	69.6 - 114	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Dibromofluoromethane	50.5	50.2	mg/L	50	50	101	100	83.1 - 116
Toluene-d8	49.4	49.4	mg/L	50	50	99	99	90.7 - 109
4-Bromofluorobenzene (4-BFB)	46.1	46.1	mg/L	50	50	92	92	86 - 112

Standard (ICV-1)

QC Batch: 32539

Date Analyzed: 2006-12-06

Analyzed By: RR

			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TCLP Silver		mg/L	0.125	0.126	101	90 - 110	2006-12-06
TCLP Arsenic		mg/L	1.00	0.992	· 99	90 - 110	2006-12-06
TCLP Barium		mg/L	1.00	1.00	100	90 - 110	2006-12-06
TCLP Cadmium		mg/L	1.00	0.987	99	90 - 110	2006-12-06
TCLP Chromium		mg/L	1.00	0.980	98	90 - 110	2006-12-06
TCLP Lead		mg/L	1.00	1.00	100	90 - 110	2006-12-06
TCLP Selenium		mg/L	1.00	1.02	102	90 - 110	2006-12-06

Standard (CCV-1)

QC Batch: 32539

Date Analyzed: 2006-12-06

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Silver		mg/L	0.125	0.132	106	90 - 110	2006-12-06
TCLP Arsenic		mg/L	1.00	1.07	107	90 - 110	2006-12-06
TCLP Barium		mg/L	1.00	1.04	104	90 - 110	2006-12-06
TCLP Cadmium		mg/L	1.00	1.06	106	90 - 110	2006-12-06
TCLP Chromium		mg/L	1.00	1.05	105	90 - 110	2006-12-06
TCLP Lead		mg/L	1.00	1.08	108	90 - 110	2006-12-06
TCLP Selenium		mg/L	1.00	1.07	107	90 - 110	2006-12-06

Standard (CCV-1)

QC Batch: 32579

Date Analyzed: 2006-12-05

Analyzed By: DS

Report Date: December 13, 2006

6-0142

Work Order: 6120117 Hobbs Facility

			CCVs True	CCVs Found	CCVs Percent	Percent	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Recovery Limits	Analyzed
Pyridine	5	mg/L	60.0	40.2	67	80 - 120	2006-12-05
1,4-Dichlorobenzene (para)		mg/L	60.0	59.7	100	80 - 120	2006-12-05
o-Cresol	6	mg/L	60.0	46.1	77	80 - 120	2006-12-05
m,p-Cresol	7	mg/L	60.0	44.9	75	80 - 120	2006-12-05
Hexachloroethane		mg/L	60.0	65.3	109	80 - 120	2006-12-05
Nitrobenzene		mg/L	60.0	57.7	96	80 - 120	2006-12-05
Hexachlorobutadiene	8	mg/L	60.0	74.4	124	80 - 120	2006-12-05
2,4,6-Trichlorophenol		mg/L	60.0	59.3	99	80 - 120	2006-12-05
2,4,5-Trichlorophenol		mg/L	60.0	53.6	89	80 - 120	2006-12-05
2,4-Dinitrotoluene		mg/L	60.0	71.8	120	80 - 120	2006-12-05
2,4-Dichlorophenoxyacetic acid	9	mg/L	60.0	84.1	140	80 - 120	2006-12-05
Hexachlorobenzene		mg/L	60.0	58.6	98	80 - 120	2006-12-05
2,4,5-Trichlorophenoxyproprionic acid		mg/L	60.0	67.2	112	80 - 120	2006-12-05
Pentachlorophenol		mg/L	60.0	63.1	105	80 - 120	2006-12-05

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limit
2-Fluorophenol		52.4	mg/L	1	60.0	87	80 - 120
Phenol-d5	10	47.3	mg/L	1	60.0	79	80 - 120
Nitrobenzene-d5		54.5	mg/L	1	60.0	91	80 - 120
2-Fluorobiphenyl		57.8	mg/L	1	60.0	96	80 - 120
2,4,6-Tribromophenol	11	75.4	mg/L	1	60.0	126	80 - 120
Terphenyl-d14		69.0	mg/L	1	60.0	115	80 - 120

Standard (ICV-1)

QC Batch: 32585

Date Analyzed: 2006-12-07

Analyzed By: TS

Page Number: 12 of 14

•			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TCLP Mercury		mg/L	0.00500	0.00516	103	80 - 120	2006-12-07

Standard (CCV-1)

QC Batch: 32585

Date Analyzed: 2006-12-07

Analyzed By: TS

⁵Pyridine outside of control limits on CCV(ICV). CCV(ICV) component average is 100% which is within acceptable range. This is acceptable by Method 8000.

⁶⁰⁻Cresol outside of control limits on CCV(ICV). CCV(ICV) component average is 100% which is within acceptable range. This is acceptable by Method 8000.

⁷m,p-Cresol outside of control limits on CCV(ICV). CCV(ICV) component average is 100% which is within acceptable range. This is acceptable by Method 8000. ⁸Hexachlorobutadiene outside of control limits on CCV(ICV). CCV(ICV) component average is 100% which is within acceptable range. This is acceptable by Method

^{92,4-}Dichlorophenoxyacetic acid outside of control limits on CCV(ICV). CCV(ICV) component average is 100% which is within acceptable range. This is acceptable

by Method 8000.

10 Phenol-d5 outside of control limits on CCV(ICV). CCV(ICV) component average is 100% which is within acceptable range. This is acceptable by Method 8000.

^{112,4,6-}Tribromophenol outside of control limits on CCV(ICV). CCV(ICV) component average is 100% which is within acceptable range. This is acceptable by Method 8000.

Report Date: December 13, 2006

6-0142

Work Order: 6120117 Hobbs Facility Page Number: 13 of 14

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TCLP Mercury		mg/L	0.00500	0.00494	99	80 - 120	2006-12-07

Standard (CCV-1)

QC Batch: 32765

Date Analyzed: 2006-12-12

Analyzed By: JG

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Vinyl Chloride		mg/L	50.0	52.8	106	80 - 120	2006-12-12
1,1-Dichloroethene		mg/L	50.0	50.7	101	80 - 120	2006-12-12
2-Butanone (MEK)		mg/L	50.0	45.8	92	80 - 120	2006-12-12
Chloroform		mg/L	50.0	50.3	101	80 - 120	2006-12-12
1,2-Dichloroethane (EDC)		mg/L	50.0	48.3	97	80 - 120	2006-12-12
Benzene		mg/L	50.0	53.8	108	80 - 120	2006-12-12
Carbon Tetrachloride		mg/L	50.0	50.4	101	80 - 120	2006-12-12
Trichloroethene (TCE)		mg/L	50.0	52.9	106	80 - 120	2006-12-12
Tetrachloroethene (PCE)		mg/L	50.0	52.4	105	80 - 120	2006-12-12
Chlorobenzene		mg/L	50.0	51.2	102	80 - 120	2006-12-12
1,4-Dichlorobenzene (para)		mg/L	50.0	49.9	100	80 - 120	2006-12-12

6-0142

RECORD 507 N. Marienfeld, Ste. 202 • Midland, TX 79701 AGSOCIATES, Inc. Fax: 432-687-0456 Environmental Consultants 437-687-0901 432-687-0901 REMARKS (1.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE DATE. TIME: WARTE - RECEIVING LAB
YELLOW - RECEIVING LAB (TO BE RETURNED TO all trade - Lubback CHAIN-OF-CUSTODY OTHER: AIRBILL #: Vate - PROJECT MANAGER - QA/QC COORDINATOR BUS UPS LA AFTER RECEIPT) SAMPLE SHIPPED BY: (Circle) RECEIVED BY: (Signature) MAND DELIVERED 6700) (LAB USE ONLY) LAB. 1.D. NUMBER SAMPLE TYPE: PINK APARAMETERS/METHOD NUMBER TURNAROUND TIME NEEDED DATE DATE TIME Mark Lawon LA CONTACT PERSON: RECEIVED BY: (SIGNATURE) DATE: 11.30.00 DATE 11/24/04 RELINQUISHED BY: [Signature] DATE: 1 1/ \$9/c. RECEIVED BY: (Signature) ITIDION MAC NUMBER OF CONTAINERS 14 103 10:40am lone Star P2104343 70/1/21 Forestity ~ Coros Los terrostes TIME 09/40 SAMPLE IDENTIFICATION Trobar PROJECT NAME: SITE MANAGER: **8** 43140 ₽B. RELINOLISHED BY: (Signature) SAMPLE CONDITION WHEN RECEIVED. 105 RECEIVING LABORATORY OF ADDRESS: 500 2 DE CITY: IT LEST CONTACT. AS CONTACT. AS CONTACT. AZION 6-0142 ö ö Maga 3WL COMMENTS: CLIENT NAME: PROJECT NO. 11/27/14 1100 PAGE

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

MON 0 A SIMP

Submit Original Plus 1 Copy

Revised June 10, 2003

Form C-138

Oil Conservation Division 1220 S. St. Francis Drive

to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE				
1. RCRA Exempt: Non-Exempt:	4. Generator Electric Submersible Pump				
□ Verbal Approval Received: Yes □ No □	5. Originating Site Hobbs Pump Yard				
2. Management Facility Destination Sundance Services Inc.	6. Transporter Unknown				
3. Address of Facility Operator P.O. Box 1737 Eunice NM 88231	8. State New Mexico				
7. Location of Material (Street Address or ULSTR) 8426 N. Dal Paso, Hobbs, NM 88241					
9. <u>Circle One</u> :					
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by no material is not-hazardous and the Generator's certification of origin. No waste cla approved 	ecessary chemical analysis to PROVE the				
All transporters must certify the wastes delivered are only those consigned for transp	port.				
BRIEF DESCRIPTION OF MATERIA	L:				
The following analytical results are from Electric Submersible Pump's I the washing off of oilfield rental tools. All equipment is washed into the outside the building in a bermed area. I have attached a certificate of wa would like approval to accept this material into our Patersian Estimated Volume (240 bbls. cy Known Volume (to be entered by the operator)	e sump and pumped to a waste water tank ste status and chain of control of the status and chain of control				
SIGNATURE Waste Management Facility Authorized Agent TITLE: President	///2/66 DATE:				
TYPE OR PRINT NAME: <u>Donna L. Roach</u> TELEPH	HONE NO. 505-394-2511 x 201				
E-MAIL ADDRESS <u>ssidonna@aol.com</u>					
(This space for State Use)	D.1==				
APPROVED BY: TITLE:	DATE:				

TITLE:

DATE: _

APPROVED BY: ___

CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL

ORIGINATI	NGLOCATION: ESP 8426 N. Dal Paso Hobbs, N.M. 88	324
SOURCE:	Oil field Rinsate	
disposali P. o	OCATION: Sundance Services, Para so Facili Box 1737 Eunice, N.M.	4
	As a condition of acceptance for disposal, I hearby certify that this waste is a non—exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non—hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste to as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 2613.	
L the u	ndersigned as the agent for Wood Group ESP he status of the waste from the subject site.	-
	Name Rodigo Burrola	_
	Title/Angency ESP	-
	Address 8426 N. Dal Paso Hobbs, N. M. 88240	-
	Signature Rodriga Burnot	_
	Date 11-1-06	_

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88740
1915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476
Sompany Name: ゼロストレウィン ミシ

Station L. A. Zip: Station L. A. Zip: Station L. A. Zip: Project Owner: Fax #. Project Owner: Project Owner: Fax #. Pr	A CONTRACTOR OF THE PROPERTY O	/	E
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any Name: (MCCLURY) \$ \$\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\	Ti	RAB OF ONTAIN STEW L JUDE OF JUDGE HER D/BASE 1 COO!	
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any Name: (MCCLURY) \$ \$\frac{1}{2} \text{ No. 65} \			Sampler Name:
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	COUNTY CICL TANK		Company Name: 14026 C-1

[†] Cardinal cannot accept verbal changes. Placae fax written changes to 505-393-2475



PHONE (\$2,007/2000 + 2000 BEFCHWOOD) - ARRENT 14 7990;

PRONE (**C**) 393 (**3.5) • 191 F. MARLAND * (1008) S. NA EBOO

ANALYTICAL RESULTS FOR WOOD GROUP ESP ATTN: ROD 8210 N DAL PASO HOBBS NM 88240 FAX TO

Receiving Date | 08/23/06 Reporting Date | 08/23/06 Majorat Nicotes | 7601/GIVEN Project Name | 7601/GIVEN Project Numer | NOT GIVEN Date Number | M1/45/24 Gample | 15 | WAILER SAMPLE Analysis Date 08/24/06 Sarnoting Date 08/23/06 Sample Type WASTEWATER Sample Condition COOL 8 INTACT Sample Received By BC Analyzed By BC

THE WALL YELFS (opm.	EPA LIMIT	Sample Result H11462-1	Method Blank	QC	∆Recov	True Value QC
VoyeUtronde	0.20	<0,005	<0.005	0.115	115	0 100
1 Dishlaraethylers	0.7	<0.005	<0.005	0.082	82	0.100
Methy Etnyl Ketone	200	0.208	< 0.050	0.097	97	0.100
Christon	6.0	< 0.005	<0.005	0.107	107	3 100
1.2-Dich proethone	0.5	<0.005	<0.005	860.0	98	0 100
Cenzene	9.5	0.014	< 0.005	0.090	90	8,100
Largan Tetrachionde	0.5	40,005	<0.005	0.096	96	0.100
* richiotoethytone	j t	<0.005	<0.005	0.106	106	0.100
etraphicrosthy ene	0.7	40 005	0.005	0 112,	112	0 100
ln.cocbenzens	100	<0.005	<0.005	8 107	107	0.100
1.4-Dichlorobenzene*	7.5	0.016	0.011	0.104	104	0.100

"Analyte delected at comparable revels of sample & method blank

% RECOVERY

Claremateurememase	109
1Chiefe- F	175
Promothisropenzene	106

METHOD 7 EPA SW 546 6260 1311

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1/2/40C

or night Demogra, Madanda is senter a may an inner to an author to general agent to control pater name or a gravitation of a control pater name of the gravitation of the general agent through the gravitation of the general agent through the gravitation of the



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ANALYTICAL RESULTS FOR MOOD GROUP ELS P ATTN: ROD 5210 N. DAY PASO HOEBS, NM 85240 FAX 10

Receiving part 138,23,00 reading frate 138,23,00 revent flammer Nor GIVEN Project frame, 1977 TR SAMPLE Project fination 1971 GIVEN 130 kings 177402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-17402-1

Analysis Date: 08/25/06 Sampling Date: 08/23/06 Sample Type: WASTEWATER Sample Condition: CODE & INTACT Sample Received By: BC Analyzed By: BC

1CH SEMANULATII ES I pomi	요요. 기해!	Sample Result H11462-1	Melhod Blank	30	% Recov	True Value QC
Sylvine	s ce	<0.050	<0.005	0.006	12	0.050
1.4-Demorebenzens	2.50	<0.050	<0.005	0.028	56	0.050
o-Cresor	200	<0.050	<0.005	0.036	72	0.050
on a Cherry	200	40,050	<0.005	0.035	70	0.050
mercul repromising	₹ 00	< 0.050	<0.005	0.024	48	0.050
Mitropensene	2.00	< 0.050	<0.005	0.039	78	0.050
revactor - 1 c-hutadiene	2.500	0d0 U>	<0.005	0.033	66	0.050
ad a Transmissions	2.00	<0.050	<0.005	0.047	94	0.050
. 45 Fizherepheno	400	10,050	<0.005	0 845	90	0.050
Le Unitrarduerre	2 130	-0.050	<0.005	0.043	86	0.050
HE KIND WITCH DOTTED IN	0.130	<0.050	10.005	0.046	92	9.050
Clent, to cashelle	100	₹0 050	~0.005	0.049	(do	g.050

	S RECOVERY
Ethorophorop	57
Hithert ab	39
*litrotxangette-ap	82
2 Financianary	87
2.4 6-Theremophener	105
eronery, ol4	106

METICOC TPA SW-846 1311 8270, 3510

Designed jother

- 47 / 48 / 106 ____

ு நிருதாத் நோஞ்சுக் கொழிகிகள் உடது. அள்ள சிக்காதன் நடக்கின் நடக்கின் நிருத்தில் நிருத்தில் கொழிக்கு சின்ன மிரு பிழக்கின் நிருத்தில் கொழிக்கின் நிருத்தில் நிருத்தில் இந்திகள் கொழிக்கின் நிருத்தில் நிருதில் நிருத்தில் நிருத்தில் நிருத்தில் நிருத்தில் நிருத்தில் நிருதில் நிருத்தில் நிருத்தில் நிருத்தில் நிருத்தில் நிருத்தில் நிருதில் நிருத்தில் நிருத்தில் நிருத்தில் நிருத்தில் நிருதில் நிருத்தில் நிருத்தில் நிருத்தில் நிருத்தில் நிருத்தில் நிருத்தில் நிருதில் நிருத்தில் நிருத்தில் நிருத்தில் நிருக்கில் நிருக்கில் நிருகில் நிருக்கில் நிருக்கில் நிருக்கில் நிருக்கில் நிருக்கில் நிருக்



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ANALYTICAL RESULTS FOR WCOD GROUP E S P ATTN. ROC 8426 N. DAL PASO HOBES, NM 88240 TAX TO

Receiving Date 108/23/05 Reporting Bate 109/05/06 Protect Number NOT GIVEN Protect Name: MOT GIVEN Protect (poation INOT GIVEN Sampling Date 08/03/08 Sample Type: WASTEWATER Sample Condition, COOL & INTACT Sample Received By BC Analyzed By: HM

TOLP METALS

LAB NO SAMPLE ID	ÁS	Ag	Ba	Cd	€.	۴υ	Hg	Se
	ppm	ppm	ppin	ppm	ppm	ppm	ppm	pom
ANAL (SISICA 1E	06/29/06	09/81/06	08/30/06	09/01/06	09/05/06	09/01/05	09/01/06	08/29/06
e M. MITC	5	5	100	1	5	5	0.2	1
H1146. 1 WATER SAMPLE	s- 1	e 1	18.0	< 0.1	631	3 57	< 0.02	< 0.1
				,				
Quality Contro	0.149	2 79	67.7	0.99	2.01	1 83	0 0034	0.054
್ ಚಿತ್ರಗಳು	0 150	3 00	75.0	1 00	2,00	2 00	0.0040	0.050
HELOVERY	55	93	90,	99	101	92	\$ 5	108
Relative Standard Deviation	5 1	1.1	2.2	11	0.2	4.7	18	0.5
METHODS EPA 1311, 600/4-914	206.2	272 1	208 :	213.1	216.1	239 1	245 :	270.2

Chemist Date

H1146..

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PROM (405) 673-7001 - 7111 REECHWIKH) - ABLEAS 13 79833

HEINE 1505; 193-732C - 1911 MARIANIE - HUSBS, NACHERGE

ANALYTICAL RESULTS FOR WOOD GROUP E.S.P. ATTN ROD 8210 N DAL PASO HOBBS, NM 88240 FAX TO

Receiving Date 108/23/06 Repuring Date: 09/05/06 Princet Number NOT GIVEN Project Name WATER SAMPLE Project Location NOT GIVEN

Sampling Date: 08/23/06 Sample Type WASTEWATER Sample Condition COOL & INTACT Sample Received By - BC Analyzed By HM/BC

REACTIVITY

LAB NO SAMPLE ID Sulfide

(ppm)

Cyanide CORROSIVITY IGNITABILITY (pH)

(°F)

ANALYSIS DATE 08/27/06 08/27/06 08/25/06 08/25/06 H1 462-1 WATER SAMPLE Not reactive Not reactive 1.22 >140

(ppm)

Quality Contro	NR	NR	7.00	NR
True Value OC	NR	NR	7.00	NR
% Recovery	NR	NR	100	NR
Relative Percent Difference	NR	NR	<0.*	NR

METHOD EPA SW-846 7 3 7 2 1010 . 1311 46 CFR 261

The Control of the Co



Highlander Environmental Corp.

Midland, Texas

October 7, 2004

Mr. Wayne Price New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Re: Soil Sample Collection for the Wood Group ESP, Inc. Facility Located in the NW/4, NW/4, NW/4, Section 35, Township 17 South, Range 38 East, Hobbs, Lea County, New Mexico

Dear Mr. Price:

Wood Group ESP, Inc. (ESP, INC.) has retained Highlander Environmental Corp. (Highlander) to collect soil samples at a concrete sump located at Wood Group ESP Facility located at 8426 North Dal Paso, Hobbs, New Mexico (Facility). The Facility is located in the NW/4, NW/4, NW/4, Section 35, Township 17 South, Range 38 East, Lea County, New Mexico. Figure 1 presents a Site location and topographic map.

Facility Background

The Facility operates under an NMOCD issued discharge plan (BW-164), and is a local service center for reconditioning electric submersible pumps, used in oil and gas production. The submersible pumps are delivered to the Facility, and initially cleaned to remove oil residues and scale. The cleaning process occurs in the shop building, on a concrete pad equipped with a fiberglass-lined collection sump and containment. The external surfaces are cleaned using a high-pressure washer. The internal surfaces are cleaned by circulating hydrochloric acid through the pump in a closed system. Wash water and acid drips drain to the collection sump, are transferred to an aboveground tank, and stored at the Facility until disposal is arranged.

After cleaning, the pumps are reconditioned, internally protected with a light coating of mineral oil, and placed on storage racks, located on the north, east and south sides of the Facility, until retrieved by the customer. Drummed chemicals (i.e.,

hydrochloric acid, etc.) are stored on concrete pads located on the east side of the shop building.

The Facility is not connected to a publicly owned treatment works (POTW). However, a septic system is located near the northwest corner of the Facility. A water well, used for non-potable purposes (i.e., wash water and rest rooms), is located approximately 50 feet southeast of the shop building. Figure 2 presents a Facility drawing.

Site Inspection and Regulatory

The New Mexico Oil Conservation Division (NMOCD) conducted an inspection of the Facility, in conjunction with the renewal of its discharge plan. The NMOCD addressed several issues identified during the inspection. The issues are summarized below:

- 1. Contaminated soil was observed on the east edge of the concrete containment (sump) located east of the shop. The soil impact appeared to from leakage from the east wall containment. The NMOCD recommended soil samples at this area to evaluate to the soils.
- 2. At the sump, the NMOCD recommended sampling the native soil underneath the concrete sump to evaluate for potential leakage.

Sump Soil Sampling

On September 10, 2004, Highlander Environmental personnel inspected and collected samples from the Facility. As requested by the NMOCD, soil samples were collected on the east side of the concrete containment, which measured 20' x 30' with a retaining wall height of 16". The impacted area measured approximately 3' x 20'. In addition, soil samples were collected at the concrete sump which measured 3.0' x 3.0' at a depth of 3.0' deep.

Soil samples were collected at each location using a stainless steel hand auger. Auger hole AH-1 was installed in the 3.0' x 3.0' sump area. In order to sample underneath the sump, the concrete was broken with a jackhammer to access the native soils. Soil samples were collected at 0-1' and 1-1.5' below the sump bottom. Deeper samples could not be collected due to a dense caliche formation. Once the soil samples were collected, the auger hole was grouted. Auger holes AH-2 and AH-3 were installed on the east edge outside the concrete containment. Soil samples were collected at AH-2 (0-1') and AH-3 (0-1' and (1-1.5'). The auger hole locations are shown in Figure 2.

The soil samples were collected, immediately placed in clean glass sample jars, labeled, placed in an ice chest, chilled, and transferred, under chain-of-custody control, for analyses. As requested by the NMCOD, the selected samples were analyzed for BTEX

(8021B), TPH (8015 Modified) and chloride (9253). The laboratory reports and chain of custody are shown in Appendix A. The soil sample results are summarized in Table 1.

Soil Sample Results

Referring to Table 1, the sump area did not show any significant impact to the subsurface soils. AH-1 showed a trace of TPH of 72.7 mg/kg at 0-1', which declined to 19.0 mg/kg at 1-1.5'. The BTEX analyses were below the method detection limit. In addition, the chloride concentrations were below 500 mg/kg.

In the area outside the containment, AH-2 and AH-3 samples did not show TPH or BTEX above the method detection limit at 0-1' and 1-1.5' below surface. The chloride concentrations were below 100 mg/kg. Based on the results, this area appears to have a surface impact.

Conclusions and Recommendations

Based the results, the sump area does not show a significant impact to the soils underneath the sump. The TPH and chloride concentrations detected appears have a minimal impact to the soils and do not appear to be an environmental concern. In order to prevent additional leakage from containment, ESP recommends the concrete containment and sump be coated with a urethane coating. This will be applied to the concrete to form a resistant barrier. The CIM 1000 Commercial Industrial Membrane specifications are shown in Appendix B.

On the surface impact outside the containment, ESP proposes to treat this area by tilling and applying nitrogen fertilizer and water to promote in-situ microbial degradation.

If you require any additional information or have any questions or comments concerning the assessment report, please call.

Sincerely,

Highlunder Environmental Corp.

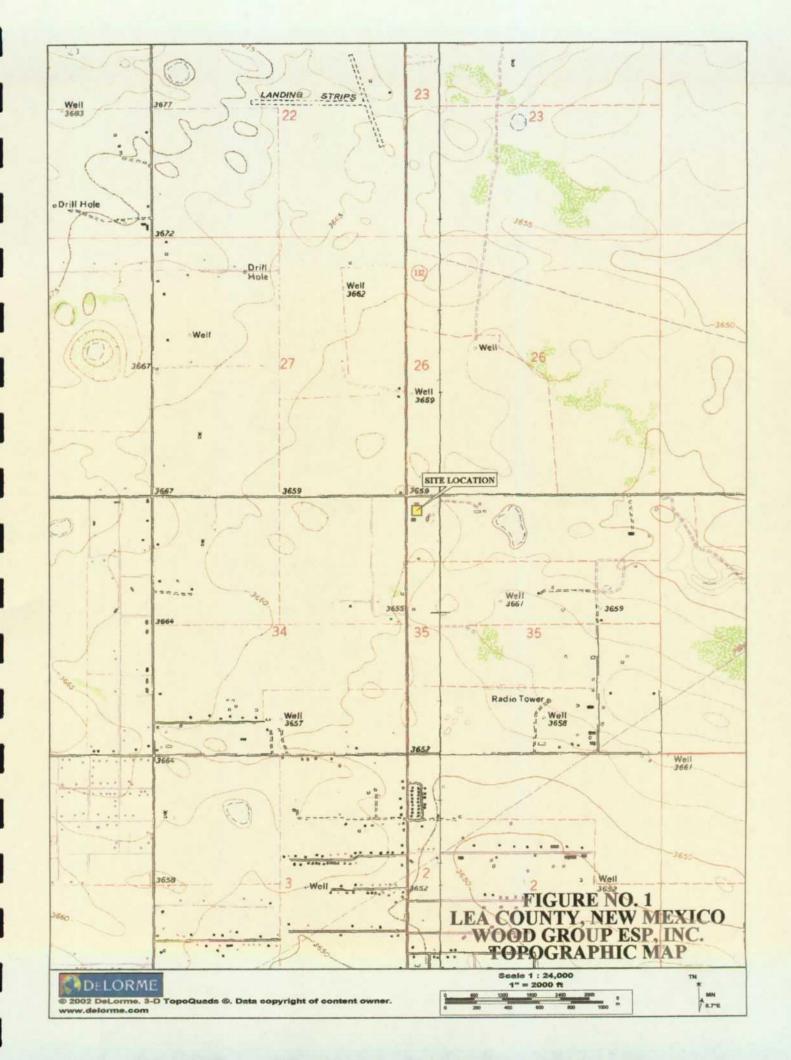
Ike Tavarez

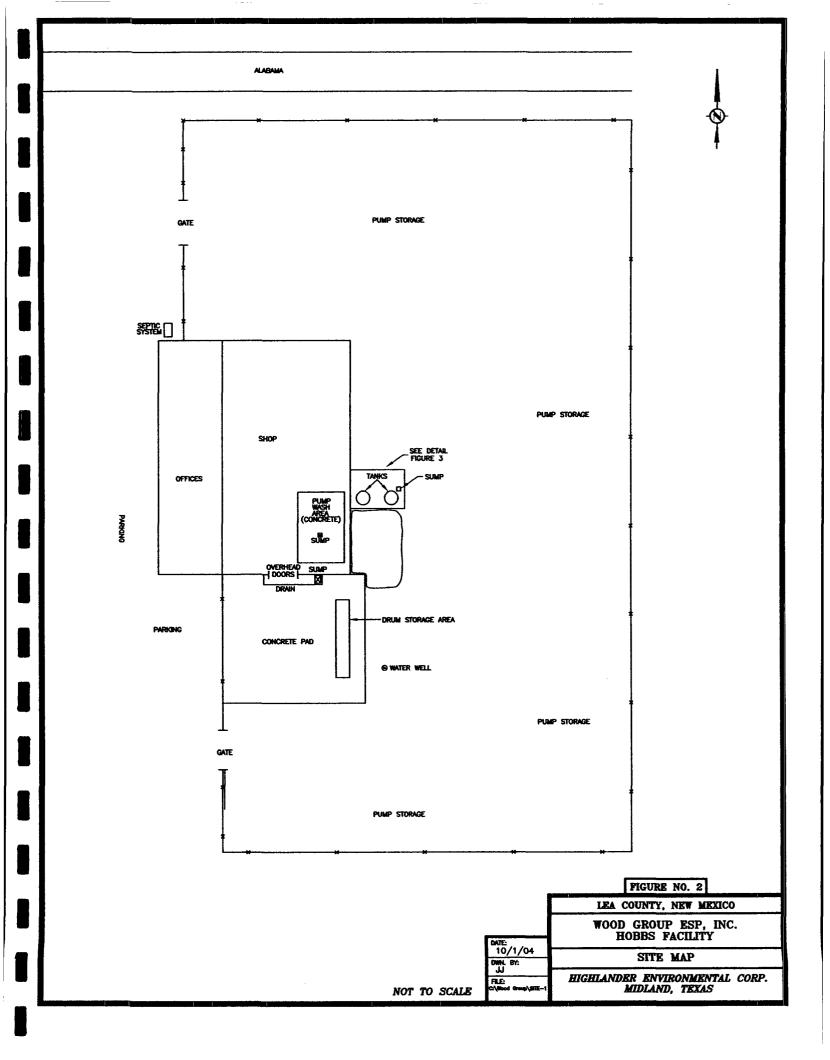
Senior Project Manager

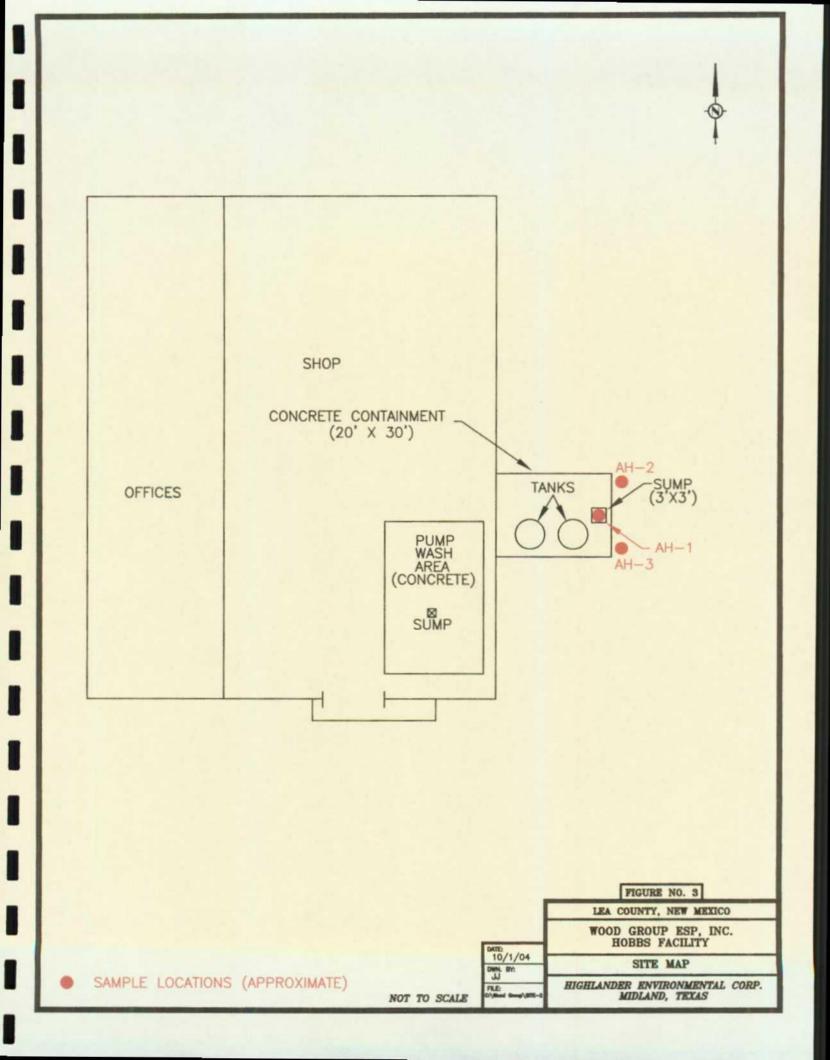
cc: Alfredo Bersosa, Wood Group ESP, Inc.



FIGURES







TABLE

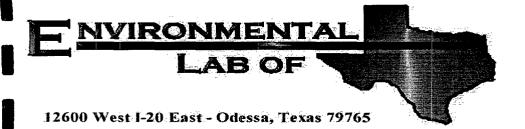
Table 1 Wood Group ESP, Inc. Facility Hobbs, Lea County, New Mexico

(concentrations in mg/kg)

Sample ID	Depth (ft)	DRO	TPH GRO	Total	В	Т	E	X	Chloride
AH-1	0-1	54.3	18.4	72.7	< 0.025	< 0.025	< 0.025	< 0.025	447
	1-1.5	19.0	<10.0	19.0	-	-	-	-	362
AH-2	0-1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	< 0.025	<20.0
AH-3	0-1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025	85.1
AH-3	1-1.5	<10.0	<10.0	<10.0	< 0.025	< 0.025	< 0.025	< 0.025	<20.0

APPENDIX A

Analytical Report



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Wood Group ESP/ Hobbs Facility

Project Number: 2232

Location: Lea County, NM

Lab Order Number: 4I14005

Report Date: 09/21/04

1910 N. Big Spring St. Midland TX, 79705 Project: Wood Group ESP/ Hobbs Facility

Project Number: 2232 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 09/21/04 12:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 (0-1)	4114005-01	Soil	09/10/04 00:00	09/13/04 17:00
AH-1 (1-1.5')	4I14005-02	Soil	09/10/04 00:00	09/13/04 17:00
AH-2 (0-1)	4I14005-03	Soil	09/10/04 00:00	09/13/04 17:00
AH-3 (0-1)	4114005-04	Soil	09/10/04 00:00	09/13/04 17:00
AH-3 (1-1.5')	4114005-05	Soil	09/10/04 00:00	09/13/04 17:00

1910 N. Big Spring St. Midland TX, 79705

Project: Wood Group ESP/ Hobbs Facility

Project Number: 2232

Fax: (432) 682-3946 Reported: 09/21/04 12:43

Organics by GC **Environmental Lab of Texas**

Project Manager: Ike Tavarez

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
AH-1 (0-1) (4I14005-01) Soil				<u> </u>					
Benzene	ND	0.0250	mg/kg dry	25	EI41715	09/15/04	09/15/04	EPA 8021B	
Toluene	ND	0.0250	*		n	. "	n	n	
Ethylbenzene	ND	0.0250	10	**	**	Ħ	n	11	
Xylene (p/m)	ND	0.0250	•	"	**	11	н	Ħ	
Xylene (o)	ND	0.0250	*	*	Ħ		n	**	
Surrogate: a,a,a-Trifluorotoluene		91.7 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %	80-1	20	"	n	n	n	
Gasoline Range Organics C6-C12	54.3	10.0	mg/kg dry	1	EI41404	09/14/04	09/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	18.4	10.0	**	**	**	**	**	Ħ	
Total Hydrocarbon C6-C35	72.7	10.0			#	11	"	•	
Surrogate: 1-Chlorooctane		103 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		76.0 %	70-1	30	"	"	'n	"	
AH-1 (1-1.5') (4I14005-02) Soil									
Gasoline Range Organics C6-C12	19.0	10.0	mg/kg dry	1	EI41404	09/14/04	09/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	,	*	*	n	n	n	
Total Hydrocarbon C6-C35	19.0	10.0	n	н	n	*	Ħ	**	
Surrogate: 1-Chlorooctane		93.6 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.2 %	70-1	30	n	"	n	"	
AH-2 (0-1) (4I14005-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI41715	09/15/04	09/16/04	EPA 8021B	
Toluene	ND	0.0250	•	n	n	Ħ	**	H	
Ethylbenzene	ND	0.0250			n	11	**	Ħ	
Xylene (p/m)	ND	0.0250	*	17	11	n	n	#	
Xylene (o)	ND	0.0250	Ħ	,,	n	n	"	n	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-1	20	"	"	"	"	· · · · · · · · · · · · · · · · · · ·
Surrogate: 4-Bromofluorobenzene		91.3 %	<i>80-1</i>	20	"	"	,	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41404	09/14/04	09/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n	*	11	**	Ħ	n	
Total Hydrocarbon C6-C35	ND	10.0	*	*		n	**	n	
Surrogate: 1-Chlorooctane		89.6 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.0 %	70-1	30	"	"	n	"	

1910 N. Big Spring St. Midland TX, 79705 Project: Wood Group ESP/ Hobbs Facility

Project Number: 2232 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 09/21/04 12:43

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3 (0-1) (4I14005-04) Soil		· · · · · · · · · · · · · · · · · · ·							
Benzene	ND	0.0250	mg/kg dry	25	EI41715	09/15/04	09/16/04	EPA 8021B	
Toluene	ND	0.0250	n	н	*	"	n		
Ethylbenzene	ND	0.0250	#	n	,,	n	*	n	
Xylene (p/m)	ND	0.0250		*	n	n	w	n	
Xylene (o)	ND	0.0250	•	*	n	n	"	**	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-12	20	"	,,	"	n	
Surrogate: 4-Bromofluorobenzene		85.6 %	80-12	20	"	n	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41404	09/14/04	09/19/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	•	19	n	Ħ	Ħ	Ħ	
Total Hydrocarbon C6-C35	ND	10.0	*	n	n	11	17	**	
Surrogate: 1-Chlorooctane		87.0 %	70-13	30	"	"	"	,	
Surrogate: 1-Chlorooctadecane		73.2 %	70-13	30	"	"	"	"	
AH-3 (1-1.5') (4I14005-05) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41404	09/14/04	09/19/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0		**	*	*	•	n	
Total Hydrocarbon C6-C35	ND	10.0	n	*	H	*	n	н	
Surrogate: 1-Chlorooctane		92.6 %	70-13	30	"	"		"	
Surrogate: 1-Chlorooctadecane		71.4 %	70-13	30	"	"	"	"	

Highlander Environmental Corp. 1910 N. Big Spring St.

Project: Wood Group ESP/ Hobbs Facility

Fax: (432) 682-3946

Reported: 09/21/04 12:43

1910 N. Big Spring S Midland TX, 79705 Project Number: 2232 Project Manager: Ike Tavarez

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 (0-1) (4114005-01) Soil								
Chloride	447	20.0 mg/kg Wet	2	E141718	09/14/04	09/17/04	SW 846 9253	
% Solids	94.0	%	1	EI41601	09/14/04	09/14/04	% calculation	
AH-1 (1-1.5') (4I14005-02) Soil								
Chloride	362	20.0 mg/kg Wet	2	EI41718	09/14/04	09/17/04	SW 846 9253	
% Solids	92.0	%	1	EI41601	09/14/04	09/14/04	% calculation	
AH-2 (0-1) (4I14005-03) Soil								
Chloride	ND	20.0 mg/kg Wet	2	EI41718	09/14/04	09/17/04	SW 846 9253	
% Solids	84.0	%	1	El41601	09/14/04	09/14/04	% calculation	
AH-3 (0-1) (4I14005-04) Soil								
Chloride	85.1	20.0 mg/kg Wet	2	EI41718	09/14/04	09/17/04	SW 846 9253	
% Solids	88.0	%	1	EI41601	09/14/04	09/14/04	% calculation	
AH-3 (1-1.5') (4I14005-05) Soil								
Chloride	ND	20.0 mg/kg Wet	2	EI41718	09/14/04	09/17/04	SW 846 9253	***
% Solids	88.0	%	1	EI41601	09/14/04	09/14/04	% calculation	

1910 N. Big Spring St. Midland TX, 79705

Project: Wood Group ESP/ Hobbs Facility

Project Number: 2232 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 09/21/04 12:43

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI41404 - Solvent Extraction (GC)	·								•
Blank (EI41404-BLK1)				Prepared:	09/14/04	Analyzed	: 09/16/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	II .							
Total Hydrocarbon C6-C35	ND	10.0	H							
Surrogate: 1-Chlorooctane	39.6		mg/kg	50.0		79.2	70-130	· · · · · · · · · · · · · · · · · · ·		
Surrogate: 1-Chlorooctadecane	36.4		"	50.0		72.8	70-130			
Blank (EI41404-BLK2)				Prepared:	09/14/04	Analyzed	: 09/17/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet					-		*
Diesel Range Organics >C12-C35	ND	10.0	*							
Total Hydrocarbon C6-C35	ND	10.0	**							
Surrogate: 1-Chlorooctane	41.9		mg/kg	50.0		83.8	70-130			•
Surrogate: 1-Chlorooctadecane	36.0		"	50.0		72.0	70-130			
LCS (EI41404-BS1)				Prepared:	09/14/04	Analyzed	: 09/16/04			
Gasoline Range Organics C6-C12	414	10.0	mg/kg wet	500		82.8	75-125			
Diesel Range Organics >C12-C35	469	10.0	P	500		93.8	75-125			
Total Hydrocarbon C6-C35	883	10.0		1000		88.3	75-125			
Surrogate: 1-Chlorooctane	40.7		mg/kg	50.0		81.4	70-130			
Surrogate: 1-Chlorooctadecane	40.1		"	50.0		80.2	70-130			
LCS (EI41404-BS2)				Prepared:	09/14/04	Analyzed	: 09/17/04			
Gasoline Range Organics C6-C12	465	10.0	mg/kg wet	500		93.0	75-125			
Diesel Range Organics >C12-C35	496	10.0	71	500		99.2	75-125			
Total Hydrocarbon C6-C35	961	10.0		1000		96.1	75-125			
Surrogate: 1-Chlorooctane	43.2		mg/kg	50.0		86.4	70-130			
Surrogate: 1-Chlorooctadecane	<i>39.1</i>		"	50.0		78.2	70-130			
Calibration Check (EI41404-CCV1)				Prepared:	09/14/04	Analyzed	: 09/16/04			
Gasoline Range Organics C6-C12	440		mg/kg	500		88.0	80-120			
Diesel Range Organics >C12-C35	584		19	500		117	80-120			
Total Hydrocarbon C6-C35	1020		*	1000		102	80-120			
Surrogate: 1-Chlorooctane	52.6		"	50.0		105	70-130			·
Surrogate: 1-Chlorooctadecane	61.3		**	50.0		123	70-130			

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 Project: Wood Group ESP/ Hobbs Facility

Project Number: 2232 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 09/21/04 12:43

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<u> </u>			- Cina	20101	- Itobalt	, utile	2,111100			110100
Batch EI41404 - Solvent Extraction (GC)			Dranaradi	00/14/04	Analyzad	: 09/17/04			
Calibration Check (EI41404-CCV2) Gasoline Range Organics C6-C12	438		mallea	500	03/14/04	87.6	80-120			
Diesel Range Organics >C12-C35	520		mg/kg	500		104	80-120 80-120			
Total Hydrocarbon C6-C35	958		n	1000		95.8	80-120 80-120	•		
Surrogate: 1-Chlorooctane	51.3			50.0		103	70-130			
~	31.3 38.8		,,	50.0 50.0		77.6	70-130 70-130			
Surrogate: 1-Chlorooctadecane	30.0			30.0		//.0	/0-130			
Matrix Spike (EI41404-MS1)	So	urce: 4I1400	3-12	Prepared:	09/14/04	Analyzed	l: 09/17/04			
Gasoline Range Organics C6-C12	572	10.0	mg/kg dry	617	11.8	90.8	75-125			
Diesel Range Organics >C12-C35	773	10.0	**	617	53.9	117	75-125			
Total Hydrocarbon C6-C35	1350	10.0	,	1230	65.7	104	75-125			
Surrogate: 1-Chlorooctane	56.7	·	mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	56.2		n	50.0		112	70-130			
Matrix Spike (EI41404-MS2)	So	urce: 4I1400	4-06	Prepared:	09/14/04	Analyzed	l: 09/17/04			
Gasoline Range Organics C6-C12	533	10.0	mg/kg dry	549	ND	97.1	75-125			
Diesel Range Organics >C12-C35	616	10.0	•	549	ND	112	75-125			
Total Hydrocarbon C6-C35	1150	10.0	n	1100	ND	105	75-125			
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0		113	70-130		<u> </u>	
Surrogate: 1-Chlorooctadecane	41.1		"	50.0		82.2	70-130			
Matrix Spike Dup (EI41404-MSD1)	So	urce: 4I1400	3-12	Prepared:	09/14/04	Analyzed	: 09/17/04			
Gasoline Range Organics C6-C12	661	10.0	mg/kg dry	617	11.8	105	75-125	14.4	20	
Diesel Range Organics >C12-C35	757	10.0	Ħ	617	53.9	114	75-125	2.09	20	
Total Hydrocarbon C6-C35	1420	10.0	Ħ	1230	65.7	110	75-125	5.05	20	
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	56.7		17	50.0		113	70-130			
Matrix Spike Dup (EI41404-MSD2)	So	urce: 4I1400	4-06	Prepared:	09/14/04	Analyzed	l: 09/17/04		,	
Gasoline Range Organics C6-C12	507	10.0	mg/kg dry	549	ND	92.3	75-125	5.00	20	
Diesel Range Organics >C12-C35	609	10.0	11	549	ND	111	75-125	1.14	20	
Total Hydrocarbon C6-C35	1120	10.0		1100	ND	102	75-125	2.64	20	
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	36.9		"	50.0		73.8	70-130			

Highlander Environmental Corp. 1910 N. Big Spring St.

Project: Wood Group ESP/ Hobbs Facility

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2232 Project Manager: Ike Tavarez Reported: 09/21/04 12:43

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Rosult		Omus		TCSUR		Linus	МЪ	- Linin	110103
Batch EI41715 - EPA 5030C (GC)						_				
Blank (EI41715-BLK1)				Prepared	& Analyze	ed: 09/15/0	04			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250								
Ethylbenzene	ND	0.0250	n							
Xylene (p/m)	ND	0.0250	n							
Xylene (o)	ND	0.0250	**							
Surrogate: a,a,a-Trifluorotoluene	94.1		ug/kg	100		94.1	80-120	=		
Surrogate: 4-Bromofluorobenzene	82.3		**	100		82.3	80-120			
LCS (EI41715-BS1)				Prepared .	& Analyze	ed: 09/15/0)4			
Benzene	90.4		ug/kg	100		90.4	80-120			=
Toluene	93.0		n	100		93.0	80-120			
Ethylbenzene	94.1		n	100		94.1	80-120			
Xylene (p/m)	214		**	200		107	80-120			
Xylene (o)	102		n	100		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	87.1			100		87.1	80-120			
Surrogate: 4-Bromofluorobenzene	99.1		"	100		99.1	80-120			
Calibration Check (EI41715-CCV1)				Prepared:	09/15/04	Analyzed	: 09/17/04			
Benzene	103		ug/kg	100		103	80-120			
Toluene	99.9		и .	100		99.9	80-120			
Ethylbenzene	93.0		Ħ	100		93.0	80-120			
Xylene (p/m)	209		**	200		104	80-120			
Xylene (o)	101		•	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	93.0		"	100		93.0	80-120			
Matrix Spike (EI41715-MS1)	So	urce: 4I1400	3-22	Prepared:	09/15/04	Analyzed	: 09/17/04			
Benzene	106		ug/kg	100	ND	106	80-120			
Toluene	107		n	100	ND	107	80-120			
Ethylbenzene	105		n	100	ND	105	80-120			
Xylene (p/m)	237			200	ND	118	80-120			
Xylene (o)	113		n	100	ND	113	80-120			
Surrogate: a,a,a-Trifluorotoluene	116			100		116	80-120			
Surrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705

Project: Wood Group ESP/ Hobbs Facility

Spike

Source

Project Number: 2232 Project Manager: Ike Tavarez

Reporting

Fax: (432) 682-3946

RPD

%REC

Reported: 09/21/04 12:43

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI41715 - EPA 5030C (GC)										
Matrix Spike Dup (EI41715-MSD1)	Soul	rce: 4I14003	3-22	Prepared:	09/15/04	Analyzed	: 09/17/04			
Benzene	98.2		ug/kg	100	ND	98.2	80-120	7.64	20	
Toluene	98.8		н	100	ND	98.8	80-120	7.97	20	
Ethylbenzene	98.8		Ħ	100	ND	98.8	80-120	6.08	20	
Xylene (p/m)	223		*	200	ND	112	80-120	5.22	20	
Xylene (o)	107		н	100	ND	107	80-120	5.45	20	
Surrogate: a,a,a-Trifluorotoluene	110		,,	100		110	80-120		-	
Surrogate: 4-Bromofluorobenzene	98. 4		n	100		98.4	80-120	•		

1910 N. Big Spring St.

Project: Wood Group ESP/ Hobbs Facility

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Reported:

Midland TX, 79705

Project Number: 2232 Project Manager: Ike Tavarez

09/21/04 12:43

General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit U	nits	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI41601 - General Preparation	(Prep)									
Blank (EI41601-BLK1)				Prepared	& Analyz	ed: 09/14/	04			
% Solids	100		%							
Duplicate (EI41601-DUP1)	Soui	rce: 4I13002-25	5	Prepared	& Analyz	ed: 09/14/	04			
% Solids	89.0		%		89.0			0.00	20	•
Batch EI41718 - Water Extraction										
Blank (EI41718-BLK1)				Prepared:	09/13/04	Analyzed	l: 09/17/04			
Chloride	ND	20.0 mg/l	kg Wet							
Matrix Spike (EI41718-MS1)	Sour	rce: 4I13001-21	1	Prepared:	09/13/04	Analyzed	l: 09/17/04			
Chloride	713	20.0 mg/l	kg Wet	500	213	100	80-120			
Matrix Spike Dup (EI41718-MSD1)	Sou	rce: 4I13001-21	l	Prepared:	09/13/04	Analyzed	l: 09/17/04			
Chloride	702	20.0 mg/l	kg Wet	500	213	97.8	80-120	1.55	20	
Reference (EI41718-SRM1)				Prepared	& Analyz	ed: 09/17/	04			
Chloride	5000	20.0 mg/l	kg Wet	······			80-120			

1910 N. Big Spring St. Midland TX, 79705

Project: Wood Group ESP/ Hobbs Facility

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Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Rolandk June

Date:

9-21-04

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Biezugbe, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: <u>Wighlander</u>				
Date/Time: $9/13/04 17.00$				
Order #: 4I14005				
Initials: CDK				
Sample Receip	t Checki	ist		
Temperature of container/cooler?	(Yes)		6.0	
Shipping container/cooler in good condition?	(es)	No		7
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)	
Custody Seals intact on sample bottles?	Yes	No	Not present	-{
Chain of custody present?	Yes		(Not present	
Sample Instructions complete on Chain of Custody?	(res)			
Chain of Custody signed when relinquished and received?	(es)	No		
Chain of custody agrees with sample label(s)	(Yes)	No		-
Container labels legible and intact?	Ves	No		=
Sample Matrix and properties same as on chain of custody?	(Yes)	No		
Samples in proper container/bottle?	(Yes)	No		
Samples properly preserved?	Yes	No		\dashv
Sample bottles intact?	Yes2	No		-
Preservations documented on Chain of Custody?	(Yes)	No		-
Containers documented on Chain of Custody?	Yes)	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?		No		-
VOC samples have zero headspace?	(Yes)	No	Not Applicable	-}
Other observations:				
Variance Docur Contact Person: Date/Time: Regarding:			Contacted by:	
Corrective Action Taken:				
				

I 1 <20	25 2H Pd 42 25 2H Pd 42 25 2H Pd 42 25	3510/625 580/624 58	CC.MS AOF 8840/85 ECIP Metals Ag As ECIP Metals Ag As ECIP Metals Ag As ECIP Metals Ag As		×	×	× × × ×	×	jedoj.		SAMPLED BY (Print & Dignt L. Time:	BY: (CLANGE) U BUS	DELIVERED UPS	HIGHLANDER CONTACT PERSON: RUSH Charges	ME (avor . No	402. g lass 6.0°C
Analysis Request and Chain of Custody Record	HIGHLANDER ENVIRONMENTAL CORP. 1910 N. Big Spring St. Midland, Texas 79705 Fax (432) 682-4559	proup ESD STE MUSCEPTO 425-3878	MATRIX CE	1/0/64 < 1941 (0-1)	1/10/01 5 1/11/12	7 KH2	-a 9/1/64 5 / 44-3 (0-1)	1	-a 9/10/by 3 (AH-3(2-2.5))		RELINGUISHERY BY: (Signature) Date: (1/2/5) RECEIVED BY: (Signature) Date: Time:	RECEIVED BY: (Signature)	RECRIVED BY: (Signature)	RECEIVED BY: (Sugasture)	STATE: ZIP: PHONE:	ONDITION WHEN RECEIVED: MATRIX: W-Water A-Air SD-Solid REMARKS: S-Soli SL-Sindge 0-Other St. Sindge 0-Other Define ordered over to Highlander Evaluation from

| ·

APPENDIX B

Information on CIM 1000 Commercial Industrial Membrane



CIM 1000 **COMMERCIAL INDUSTRIAL MEMBRANE**

COATING PROFILE

DESCRIPTION

CIM 1000 is a liquid applied urethane coating that cures in hours to form a tough elastomeric membrane that adheres to most substrates, forming a chemical and abrasion resistant barrier for waterproofing, corrosion protection, and containment of water and most aqueous chemicals.

ADVANTAGÉS

CIM 1000 has over 25 years of proven performance in demanding environments. It remains flexible and resilient and provides exceptional service in a broad range of applications.

Forms a tough elastomeric membrane able to bridge cracks and joints.

Impervious to water and most aqueous chemicals, providing a long lasting tank and

· Asphalt extended urethane formula provides superior wear and weatherability for parking decks and containment areas.

 Adheres to and bridges between common construction materials such as concrete, steel and other metals, asphalt pavement, glass, wood, and most coatings.

Environmentally sound, complying with the toughest VOC regulations.

Can be repaired when damaged.

Excellent abrasion resistance for severe wear applications.

•UV stable.

 Liquid, two-component urethane can be applied to complex shapes, multiple penetrations or to most geotextiles.

SURFACE PREPARATION

GENERAL: Substrates must be clean and dry with no oils, grease or loose debris. CIM Bonding Agent is recommended on all non-porous substrates. Perform adhesion tests to confirm adequacy of surface preparation, See C.I.M. Industries' specific substrate Instruction Guide for specific guidelines.

CONCRETE: ICRI-CSP 4-6 surface profile exposing aggregate. Concrete must exhibit minimum 3,000 psi compressive strength and be free of release agents and curing compounds. The substrate must be clean and dry (less than 5% moisture), and free of contaminates.

STEEL:

Minimum 3 mil profile.

Immersion service - SSPC-SP10 / NACE No. 2 Near White Blast. Non-Immersion service - SSPC-SP6 / NACE No. 3 Commercial Blast. Use CIM Bonding Agent for greater adhesion.

OTHER METALS:

SSPC-SP1 solvent clean and abrasive blast to roughen and degloss the surface.

Use CIM Bonding Agent for greater adhesion.

GLASS: Thoroughly clean, CIM Bonding Agent must be used for increased adhesion. For immersion

service roughen the surface.

WOOD: Substrate must be clean, dry and free of surface contamination.

PREVIOUS COATINGS CIM 1000 may be applied over some existing coatings and linings and achieve AND LININGS: acceptable performance. CIM Bonding Agent is recommended for greater adhesion. Finished system results vary due to a variety of project specific factors, including the

service conditions to which the system is exposed. Therefore, C.I.M. Industries does not accept responsibility for determining the suitability of an existing coating as a substrate for CIM products. Owner shall perform adhesion tests on any existing coating or lining to determine suitability.

EARTH: Use CIM Scrim.

COLOR CIM 1000 is initially shiny black, turning dull over 3 to 6 months when exposed to direct sunlight. For a colored or reflecting surface finish, apply a tack coat over the basecoat and immediately broadcast white or colored aggregate into the coating. See C.I.M Industries' Instruction Guide, "Topcoats" (IG-7) for further instructions.

SOLIDS BY VOLUME 88%

(1413 dry mils x sq. ft./gal.)

RECOMMENDED COVERAGE

Recommended minimum thickness at all points of the coating is 60 wet mils. Higher coverages may be specified, but extended time is required to insure proper solvent release prior to placing the membrane in service. Contact C.I.M. Industries for additional information.

VOC 92 g/l (0.76 lb./gal.). CIM 1000 complies with the toughest VOC regulations.

2023313281



CIM 1000 COMMERCIAL INDUSTRIAL MEMBRANE

TYPICAL PROPERTIES

Abrasion Resistance–Wt. Loss. Taber Abraser CS–17 Wheel 1000 gr./1000 rev. ASTM D4060	1.2 mg. Loss	Membrane Performance Crack Bridging 10 cycles @ -15°F After heat aging	greater than $\frac{1}{4}$ " greater than $\frac{1}{4}$ "
Adhesion to Concrete (dry)		Membrane Weight (60 mil wet film thickness)	31 lbs./100 sq. ft.
Elcometer	350 psi	,	•
Deflection Temperature ASTM D648	below -60°F	Mix Ratio Weight Volume	7: 1 9: 1
Density (Approx.) Premix Activator	8.0 lbs./gal. 10.1 lbs./gal.	Mullen Burst Strength, min ASTM D751, 50 mil	150 psi
Mixed & Cured	8.3 lbs./gal.	Permeability to Water Vapor	
Elastomeric Waterproofing ASTM C836	exceeds all criteria	ASTM E96 Method E, 100°F, 100 mil sheet	0.03 perms
ASTM C957	exceeds all criteria	Recovery from 100% extension:	
Electrical Resistivity, Volume ASTM D257, 50% RH, 23°C.	1.9 x 10E14	after 5 minutes after 24 hours	98% 100%
2" disc @ 100 mil thickness	ohm-cm	Salt Spray	2000 bra
Extension to Break, min	**	ASTM B117	pass 2000 hrs.
ASTM D412	400%	Service Temperature	-60°F to 220°F
Flammability ASTM D2859	pass/combustible	Softening Point, Ring & Ball ASTM D36	>325°F
Substrate UL790 Class A ¹		Tear Strength ASTM D624 (Die C)	150 lbs./in.
Hardness, Shore A, min ASTM D2240 @ 77°F	60	Tensile Strength, min ASTM D 412, 100 mil sheet	900 psi
Jet Fuel Resistance		Weathering	•
FS \$S-S-200D	pass for joints	ASTM D822	pass 5000 hrs.
			-

¹Contact C.I.M. Industries for details regarding UL fire ratings

CHEMICAL RESISTANCE

CIM 1000 is resistant to a broad range of acids and alkalis. Consult C.I.M. Industries for additional information regarding chemical resistance after reviewing CIM 1000 Chemical Resistance Chart.

All information presented in this publication is believed to be accurate, but it is not to be construed as a guarantee of minimum performance. Test performance results are obtained in a controlled laboratory environment using procedures that may not represent actual operating environments.

THE INFORMATION PRESENTED IN THIS PUBLICATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

CONTACT C.I.M. INDUSTRIES FOR CURRENT INFORMATION.

www.clmindustries.com



CIM 1000 **COMMERCIAL INDUSTRIAL MEMBRANE**

GENERAL APPLICATION INFORMATION

FOR PROFESSIONAL USE ONLY. USE

PRECAUTIONS Avoid contamination with water or moisture. Keep all pails and jugs tightly closed until ready for use. All equipment, air supplies, and application substrates must be ABSOLUTELY DRY. Do not apply in wet weather or when rain is imminent or when the CIM 1000 or the substrate may become wet within 4 hours after coating. Use caution when applying CIM 1000 in confined spaces. See C.I.M. Industries' Instruction Guide, "Applying CIM Within Confined Spaces" (IG-9).

TEMPERATURE Surface should be at least 50°F (10°C) and must be 5°F (3°C) above the dew point. DO NOT APPLY WHEN THE SUBSTRATE OR AMBIENT TEMPERATURE IS RISING OR COATING IS IN DIRECT SUNLIGHT. CIM 1000 should be at least 60°F (15°C) when mixed and applied. CIM 1000 may be preheated to facilitate application at low temperatures, but working time will be reduced. See C.I.M. Industries' Instruction Guide "Applying CIM Membranes in Cold Weather" (IG-11).

EQUIPMENT

Spray equipment requires large diameter hose and air supplied mastic gun. Airless pump may be used to provide fluid side pressure. See "Spray Application of CIM" (IG-12) or contact C.I.M. Industries for specific recommendations. Roller, squeegee, and trowel may also be used.

POT LIFE About 30 minutes. Working time depends on temperature and method of application. Spray application will be significantly shorter.

PRIMING

Porous substrates such as wood and concrete should be primed with CIM 61 Epoxy Primer to minimize outgassing. The recoat window for CIM 61 Epoxy Primer shall be no longer than 48 hours. See CIM 61 Epoxy Primer Coating Profile for additional information. Perform adhesion tests to confirm adequacy of adhesion to primer.

MIXING

DO NOT THIN. DO NOT HAND MIX. Begin mixing each pail (4.5 gal.) of CIM 1000 Premix using a power mixer (e.g. 1/2" drill and an eight inch mud mixer). Do not draw air into the mix. While mixing, slowly add one jug (0.5 gal.) of CIM 1000 Activator to the pail. Once the CIM 1000 Activator has been added, mix thoroughly for 3 FULL MINUTES. The proportions are premeasured. DO NOT ESTIMATE. Mixing Jigs and Timers from C.I.M. Industries help eliminate mixing errors and increase productivity on the job. See C.I.M. Industries' Instruction Guide, "Mixing CIM Premix and Activator" (IG-8).

APPLICATION Apply CIM 1000 directly to a clean and dry substrate. Vertical surfaces will require multiple coats. See C.I.M. Industries' specific Substrate Instruction Guide for additional guidelines.

RECOATING

CIM 1000 may be recoated in 1 hour and must be recoated soon after the coating no longer comes off on polyethylene (typically within 4 hours of mixing). If the membrane has cured longer than this time, the surface must be severely abraded using surface grinder or other mechanical means, and be free of dust and debris. Use CIM Bonding Agent for better adhesion. For immersion conditions, all coats shall be applied within 4 hours of each other, except at joint lines.

SPREAD RATE Note: Coverages are theoretical and do not account for waste, spillage, Irregular surfaces, or application technique. Consult CIM 1000 coverage chart for additional coverage information.

CURING TIME CIM 1000 may be placed in service within 24 hours for non-aggressive service. Severe service applications may require a cure time of 72 hours or more. Contact C.I.M. Industries for specific recommendations.

CLEAN-UP

Use mineral spirits for clean-up of uncured material. Spray equipment must be flushed regularly during application to prevent material from setting up in the hose and pump. Cured material is very difficult to remove. Soaking in solvent will soften the material and may assist in its removal.

CONTACT C.I.M. INDUSTRIES FOR SPECIFIC RECOMMENDATIONS AND INSTRUCTION GUIDES.



CIM 1000 COMMERCIAL INDUSTRIAL MEMBRANE

SHIPPING, STORAGE AND SAFETY DATA

WARNING Flammable. Use only in well ventilated areas. Do not store or use near open flame, sparks or hot surfaces. Keep tightly closed. Avoid contact with moisture or water. Keep out of

reach of children.

SAFETY INFORMATION This product contains petroleum asphalt, petroleum distillates, amine compounds and/or other chemical ingredients. Adequate health and safety precautions should be observed

during the storage, handling, application and curing. Refer to C.I.M. Industries' Material

Safety Data Sheets for further details regarding the safe use of this product.

PACKAGING CIM 1000 is available in mixed units of 0.83 gallons and 5 gallons. Each unit consists of a container of premix and a smaller container of activator. Quantities have been premeasured to provide the proper mixing ratio, leaving sufficient room in the premix

container to facilitate adequate mixing. Do not estimate proportions.

Activator SHIPPING Premix

Weights

1 lb. per bottle (12 lbs. per carton of 12) 0.83 gallon kits 7.0 lbs. per can (28 lbs. per box of 4)

5.5 lbs. per jug (44 lbs. per case of 8) 5.0 gallon units 40 lbs. per pail

(33 lbs. per case of 6)

Properties

>250°F Flash Point 101°F

Not Regulated Shipping Name Coating Solution

Not Regulated DOT Class Class 3, UN1139, PGIII

STORAGE

70°F to 95°F Temperature 20°F to 110°F 6 months Shelf Life 2 years

Non Flammable NFPA Class II

WARRANTY & LIMITATION OF SELLER'S LIABILITY

C.I.M. Industries Inc. (C.I.M.) warrants that for a period of five (5) years from the date of shipment to the initial purchaser, the products, when mixed in proper ratios for the proper length of time, (a) will not become brittle or crack and (b) will provide a water barrier. Due to application variables beyond C.I.M.'s control which may affect results, C.I.M. makes no warranty of any kind, expressed or implied, including that of merchantability, other than that the products conform to C.I.M.'s current quality control standards at time of manufacture. If breach of warranty is established, the buyer's exclusive remedy shall be repayment of the purchase price of the nonconforming CIM membrane product or, at C.I.M.'s option, resupply of conforming product to replace the non-conforming product. The buyer expressly waives any claim to additional damages, including consequential damages.

THE INFORMATION PRESENTED IN THIS PUBLICATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

CONTACT C.I.M. INDUSTRIES FOR CURRENT INFORMATION.

C.I.M. **Industries** Inc.

FOR PROFESSIONAL USE DNLY.

www.cimindustries.com

23 Elm St., Peterborough, NH 03458 Tel: (800) 543-3458 (603) 924-9481 Fax: (803) 924-9482 Web sits: www.cimindustries.com

CIM 1000 COMMERCIAL INDUSTRIAL MEMBRANE

CHEMICAL RESISTANCE*

The following chart is a general guide to the resistance of CIM 1000 Membrane to various types of exposure. Although we believe this information to be reliable, C.I.M. Industries Inc. has no control over any particular application, installation, or exposure of CIM 1000 Membrane; and suitable tests should be carried out by the user.

Where chemical concentrations are listed, the designated rating applies to all concentrations up to and including the concentration indicated.

Except as indicated by a footnote, the maximum service temperature is 140F (60C) for continuous service.

Consult C.I.M. Industries for additional information regarding chemical resistance.

Acetic Acid, Glacial	S	Hydrogen Sulfide,	
Acetic Acid, 25%	R2	Vapor Over Sat. Solution	R
Acetic Acid, 10%	R	Methanol	R1
Ammonium Hydroxide, 50%	NR	Nitric Acid, 10%	R2
Ammonium Hydroxide, 10%	R2	Outdoor Exposure	R
Biological Oxidation Ponds	R	Phosphoric Acid, 10%	R
Chlorine,		Sewage Disposal Plant	
Saturated Solution in Water	R1	(Act. Sludge Sed. Tanks)	R
Citric Acid. 10%	R	Sodium Hydroxide, 10%	R
Copper Sulfate (Sat.)	R	Sodium Hydroxide, 50%	R1
Crude Oil	\$	Sodium Hypochlorite, 15%	R
Diesel Fuel	S	Soil Burial	R
Ethylene Glycol			R
(Antifreeze Solution)	R1	Sodium Silicete, 34%	
Ferric Chloride, 42%	R	Strawberry Juice	R
Hydrochloric Acid, 10%	R2	Sulfuric Acid, 30% or less	R
Hydrofluoric Acid, 10%	R2	Trisodium Phosphate, 10%	R
Hydrogen Sulfide,		Water, Salt	R
Saturated Solution in Water	R	Wine (for floor protection)	R

Footnote:

- R Suitable for continuous immersion.
- S Suitable for splash and spillage conditions.
- R1 Maximum service temperature limited to 80F.
- R2 Maximum service temperature limited to 120F.
- NR Not recommended for this service.

Information presented here is believed to be accurate, but it is not to be construed as a guarantee of minimum performance. Test performance results are obtained in a controlled laboratory environment under procedures that may not represent actual operating environments.

THE INFORMATION PRESENTED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.

CONTACT C.I.M. INDUSTRIES FOR CURRENT INFORMATION.

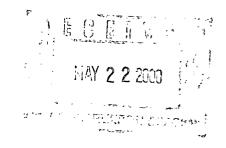
FOR PROFESSIONAL USE ONLY.



Midland, Texas

May 17, 2000

Mr. Wayne Price New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, New Mexico 87505



GW-

Re: Results of Soil and Groundwater Sample Collection, Wood Group ESP, Inc. (BW)164), NW/4, NW/4, NW/4, Section 35, Township 17 South, Range 38 East, Lea County, New Mexico

Dear Mr. Price:

Wood Group ESP, Inc. (ESP, INC.) has retained Highlander Environmental Corp. (Highlander) to collect soil and groundwater samples at its service center (Facility), located near Hobbs, New Mexico. The samples were collected at the request of the New Mexico Oil Conservation Division (NMOCD), in response to an inspection of the facility during renewal of the Facility's discharge plan (BW-164). The Facility address and contact information are as follows:

Name:

Wood Group ESP, Inc.

Mailing Address:

P. O. Box 596

Hobbs, New Mexico 88241

Street Address:

8426 North Dal Paso

Hobbs, New Mexico 88242

Telephone:

(505) 392-7999

Fax:

(505) 392-8190

The Facility is located in the NW/4, NW/4, NW/4 Section 35, Township 17 South, Range 38 East, Lea County, New Mexico. Figure 1 presents a Site location and topographic map.

1.0 Facility Description

The Facility operates under an NMOCD issued discharge plan (BW-164), and is a local service center for reconditioning electric submersible pumps, used in oil and gas production. The submersible pumps are delivered to the Facility, and initially cleaned to remove oil residues and scale. The cleaning process occurs in the shop building, on a concrete pad equipped with a fiberglass-lined collection sump and containment. The external surfaces are cleaned using a high-pressure washer. The internal surfaces are cleaned by circulating hydrochloric acid through the pump in a closed system. Wash water and acid drips drain to the collection sump, are transferred to an aboveground tank, and stored at the Facility until disposal is arranged. After cleaning, the pumps are

reconditioned, internally protected with light coating of mineral oil, and placed on storage racks, located on the north, east and south sides of the Facility, until retrieved by the customer. Drummed chemicals (i.e., hydrochloric acid, etc.) are stored on concrete pads located on the east side of the shop building.

The Facility is not connected to a publicly owned treatment works (POTW). However, a septic system is located near the northwest corner of the Facility. A water well, used for non-potable purposes (i.e., wash water and rest rooms), is located approximately 50 feet southeast of the shop building. Figure 2 presents a Facility drawing.

2.0 Regulatory Summary

The NMOCD conducted an inspection of the Facility on January 27, 2000, in conjunction with renewal of the Facility's discharge plan. The NMOCD conditionally approved the discharge plan on February 4, 2000, and requested ESP, INC. to address several issues, including:

- Collecting groundwater samples from the water well for laboratory analysis;
- Addressing apparent contaminated soil near the south edge of the drive-way (south of the shop), drum storage area, and pump storage area;
- Installing containment in areas showing evidence of leaks and spills reaching ground surface, including the drive-way pad, drum and pump storage areas; and
- Preparing a storm water run-off plan for the Facility.

Highlander prepared a work plan to address the issues raised by the NMOCD including, collection of soil samples from two locations near the south end of the driveway and three locations at the drum storage area, and collecting groundwater samples from the water well.

The NMOCD also identified areas of stained soil beneath pump storage racks located east and north of the shop building. The stained soil was the result of light mineral oil that had seeped from pumps stored on the racks. The pumps are internally coated with a light film of the mineral oil (Rocon #2) after the pumps are cleaned and reconditioned. The mineral oil prevents corrosion of the internal pump workings during storage. A manufacture's Material Safety Data Sheet (MSDS) was provided to the NMOCD, and revealed that the mineral oil has a toxicity rating of 0 (insignificant). In the work plan, ESP, INC. proposed to treat areas the mineral oil stained areas with nitrogen fertilizer to promote insitu microbial degradation. The work plan was approved on April 4, 2000. Appendix A presents an electronic communication from the NMOCD to Highlander approving the work plan.

3.0 Investigation Results

Soil and groundwater samples were collected at the Facility on April 10, 2000. Soil samples were collected in the drum storage area (HA-1, HA-2, and HA-3) and near the



south end of the driveway (HA-4 and HA-5) using a stainless steel hand auger. Soil samples were collected at each location from 0 to 1 feet and at 3 feet below ground surface (BGS). Figure 2 presents a Site drawing, and sample locations HA-1 through HA-5.

Each soil sample was immediately placed in a clean glass sample jar, labeled, placed in an ice chest, chilled, and transferred, under chain-of-custody control, to Trace Analysis, Inc., located in Lubbock, Texas. A portion of each sample was also retained in a clean plastic sample bag, and field screened for hydrocarbon vapors. After approximately fifteen minutes at ambient temperature, the concentration of organic vapors in the headspace of the sealed bag was measured using a photoionization detector (PID). The PID, a Thermo Environmental Instruments, Model 580B, was calibrated prior to use with an isobutylene standard. The highest PID reading was observed at 6.4 parts per million (ppm) in samples from locations HA-3, 3 feet BGS and HA-5, 3 feet BGS. Appendix B presents the calibration notes for the PID.

The shallow soil sample from each location was analyzed for gasoline and diesel range petroleum hydrocarbons (TPH), by method SW-846-8015 modified. In accordance with NMOCD guidelines (Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993), the soil samples were not analyzed for benzene, toluene, ethylbenzene, xylene (collectively referred to as BTEX), since PID readings were below 100 ppm. Table 1 presents a summary of the PID and TPH analyses. Appendix C presents the laboratory reports.

Groundwater samples were collected from the well located southeast of the shop. Depth-to-groundwater was measured at 71.63 feet below ground surface, and the well was reportedly drilled to about 130 feet BGS. Approximately 360 gallons of water were pumped from the well prior to sample collection. Groundwater samples were collected from a spigot located near at the well, and analyzed for New Mexico Water Quality Control Commission (NMWQCC) human health and domestic water supply standards, including volatile and semi-volatile organics (8260C and 8270B), MTBE, 1 and 2-methylnaphthalene, total (unfiltered) metals, anions, cations and total dissolved solids (TDS). Table 2 presents a summary of the general chemistry analyses. Appendix C presents the laboratory reports.

Referring to Table 1, no detectable levels of TPH were reported in the shallow soil samples (0 - 1 feet BGS) from locations HA-1 through HA-5. No volatile or semi-volatile parameters, including MTBE, or 1 and 2-methylnaphthalene were reported in the groundwater samples above test method detection limits. The only total metal compound reported in the groundwater sample was barium (0.04 milligrams per liter). The New Mexico Water Quality Control Commission (NMWQCC) human health standard for barium is 1.0 milligram per liter. All remaining parameters are within threshold limits established by the NMWQCC.



No contaminant levels were detected in soil or groundwater, above NMOCD or NMWQCC threshold limit values, based on samples collected on April 10, 2000.

4.0 Containment and Runoff Structures

Wood Group ESP, INC. has designed and initiated installation of structures to contain runoff from the driveway and yard areas. A new drum storage area has also been designed, and initiated south of the shop building. Figure 2 shows the locations for the structures. Figure 3 and Figure 4 present detailed diagrams for the drum and driveway runoff containment structures, respectively.

4.1 Drum Containment Structure

The drum containment structure is constructed south of the shop building, on the over the existing driveway slab. The structure is constructed of concrete, and measures approximately 7 feet (width) x 40 feet (length) x 16 inches (height). The drum containment structure is equipped with a concrete sump, centrally located in the containment structure. The concrete sump measures approximately 2 x 2 x 2 feet, and is equipped with a sealed fiberglass liner. A corrugated steel roof, anchored to the containment structure by tubular steel supports, protects the containment structure. Fluids from accidental spills or precipitation flow to the sump, where it is picked up with a vacuum pump, and transferred to above ground storage tanks, located east of the shop.

4.2 Driveway Runoff Containment

The driveway runoff containment structure consists of a concrete trough, measuring approximately 3 feet wide, by 1 foot deep, located adjacent to the south side of the shop. The containment system is designed to contain wash water from the shop floor before it runs down the driveway. The concrete drain is equipped with a reinforced steel grate, and captured water flows to a collection sump, located east of the overhead door. The concrete sump measures approximately 3 feet (width) x 4 feet (length) x 4 feet (depth), and is equipped with a sealed fiberglass liner. Water captured in the sump is picked up with a vacuum pump and transferred to above ground storage tanks located east of the shop.

4.3 Storm Water Containment and Monitoring

Wood Group ESP, INC. has designed and installed a storm water containment structure, based on the facility's topography. The facility topography generally slopes from northwest to southeast. Wood Group ESP, INC. installed an earthen containment beam along the south property boundary to capture storm water prior to moving off the facility. The berm is designed to allow storm water to flow to a catchment area near the southeast corner of the facility. Captured storm water will be visually inspected for hydrocarbon sheen, and if present, the water will be immediately pick up and disposed at a NMOCD permitted disposal facility. If no sheen is present, the water will be allowed to evaporate and percolate into the subsoil.

Please call if you have questions, Sincerely, Highlander Environmental Corp.



Mark J. Larson, CPG, CGWP Senior Project Manager

Encl.

cc: Larry Merworth, Wood Group ESP, Inc. Chris Williams, NMOCD - Hobbs District **Tables**



Table 1: Summary of Laboratory Analysis of Soil Samples Wood Group ESP, Inc.

Lea County, New Mexico Hobbs Service Center

Sample Location	Sample Depth (ft)	PID (ppm)	GRO mg/kg	DRO mg/kg	TPH mg/kg
HA-1	0 - 1	3.6	<>	<50	<55
	3	3.2	-	-	•
HA-2	0 - 1	4.0	<>	<50	<55
	3	4.0	_		-
HA-3	0 - 1	4.0	<>	<50	<55
	3	6.4	-	1	•
HA-4	0 - 1	5.6	<>	<50	<55
	3	4.0	1	1	•
HA-5	0 - 1	5.6	<>	<50	<55
	3	6.4	•	ť	-

Notes: All samples collected on April 10, 2000, and analyzed by Trace Analyses, Inc., Lubbock, Texas

1. ppm: Parts per million

Analyte concentration below test method detection limit 2. mg/kg: Milligrams per kilogram
3. <. Analyte concentration belo
4.
No data available

Summary of Total Metals Analysis of Groundwater Samples from Water Well, Wood Group ESP, INC. - Hobbs Facility Table 2:

Lea County, New Mexico

Sample Location	Sample Date	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium « mg/L	Silver mg/L
Water Well	04/10/00	<0.01	0.04	<0.005	<0.01	0.03	<0.0002	<0.01	<0.002

Notes: Analysis performed by Trace Analyses, Inc., Lubbock, Texas

Summary of General Chemistry Analysis of Groundwater Samples from Water Well, Wood Group ESP, INC., Hobbs Facility Lea County, New Mexico Table 3:

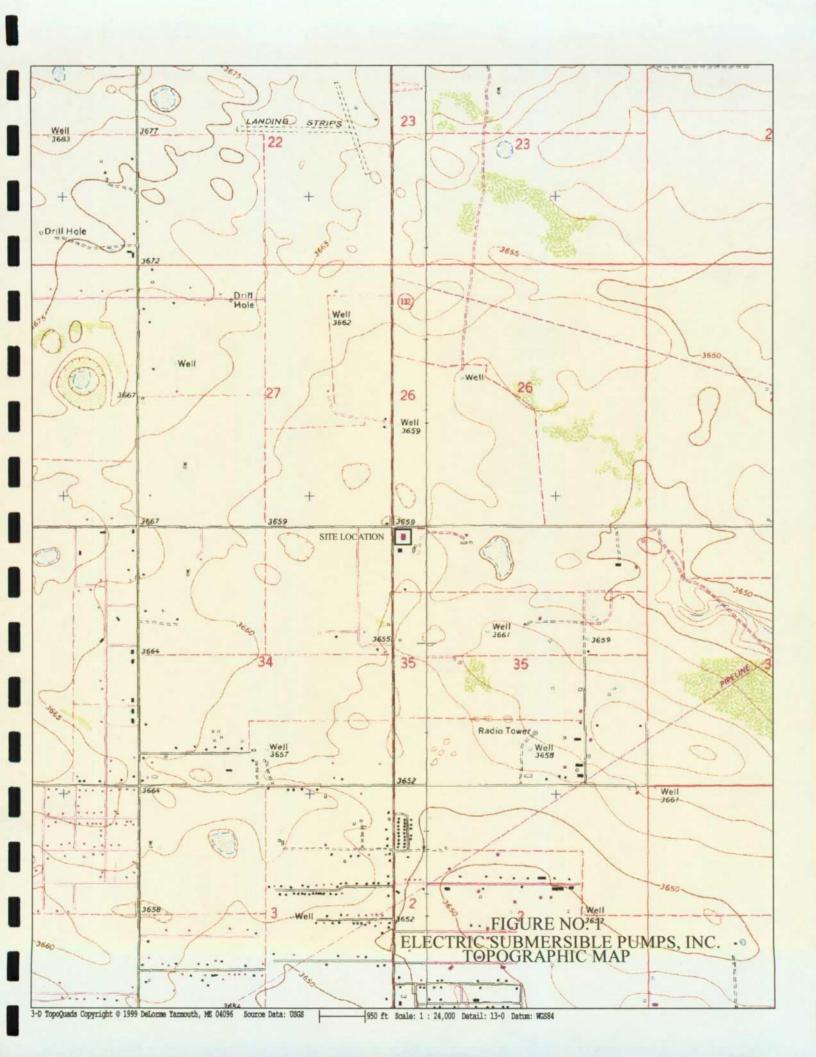
TDS	(mg/L)	500		
Nitrate	(mg/L)	5.0		
Hardness	(mg/L)	260		
Calcium Sodium Chloride Fluoride Sulfate Alkalinity Hardness	(mg/L)	193		
Sulfate	(mg/L)	100		
Fluoride	(mg/L)	1.8		
Chloride	(mg/L)	44		
Sodium	(mg/L)	44		
Calcium	(mg/L)	73		
Magnesium	(mg/L)	19		
Potassium	(mg/L)	3.5		
Sample	Date	04/10/00		
Sammple	No.	W W-1		

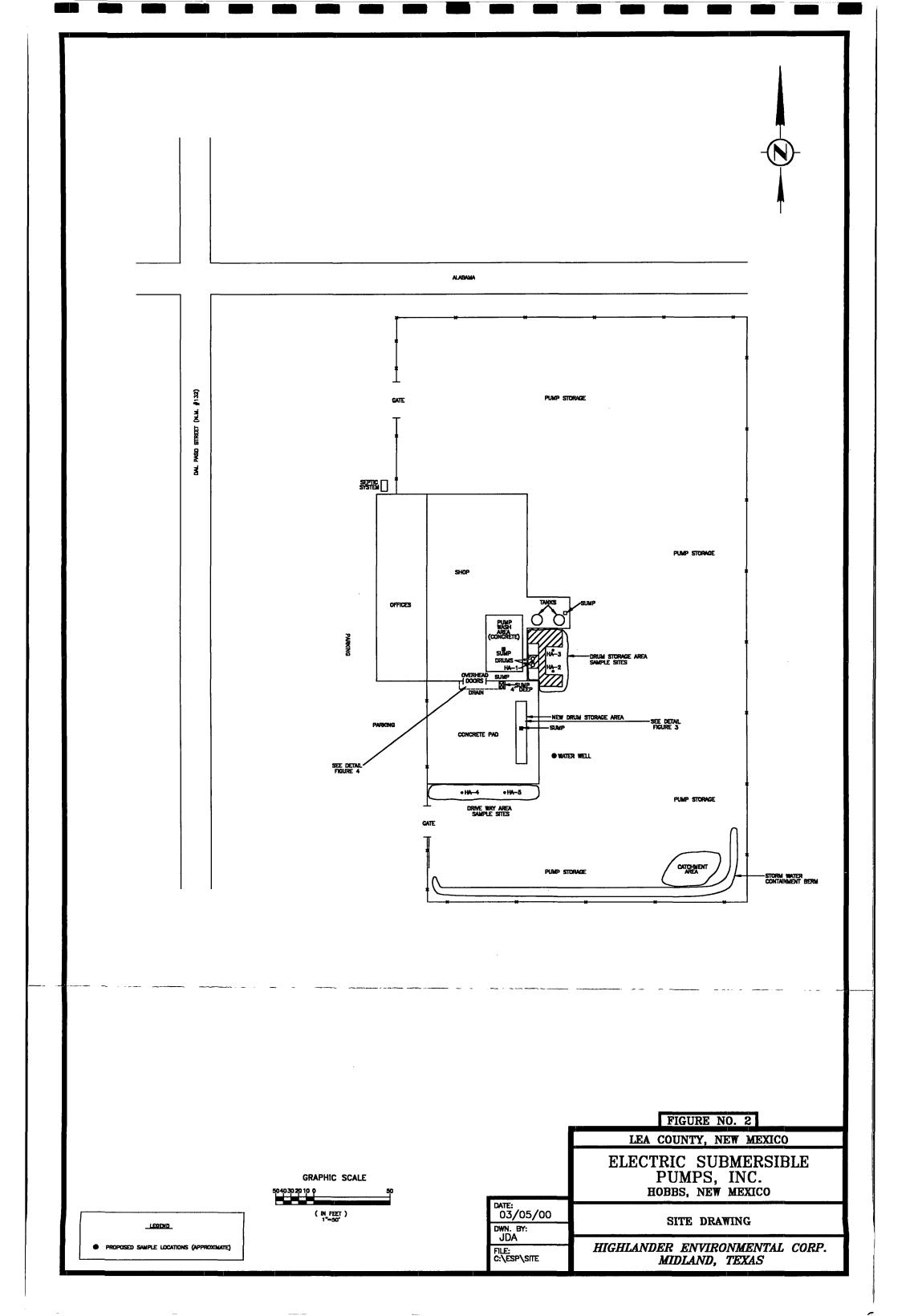
All analysis performed by Trace Analysis, Inc., Lubbock, Texas Denotes analyte concentration in milligrams per liter Denotes analyte concentration below test method detection limit

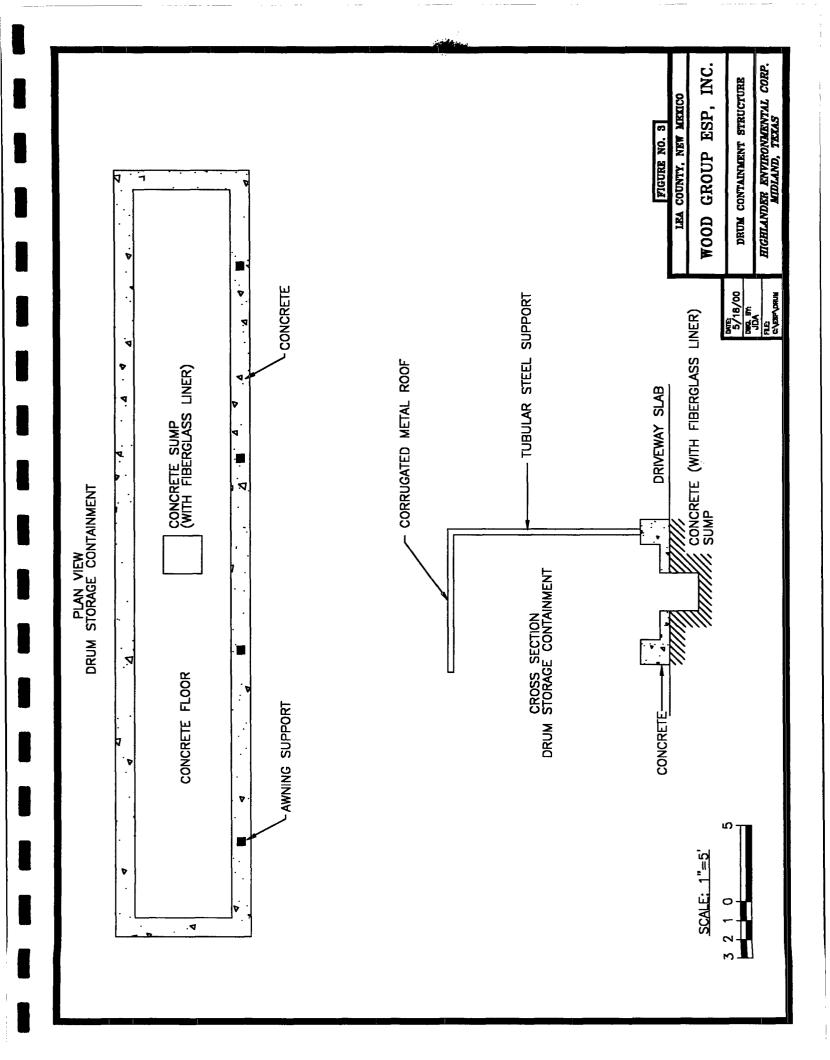
Note: 1. mg/L: 2. <:

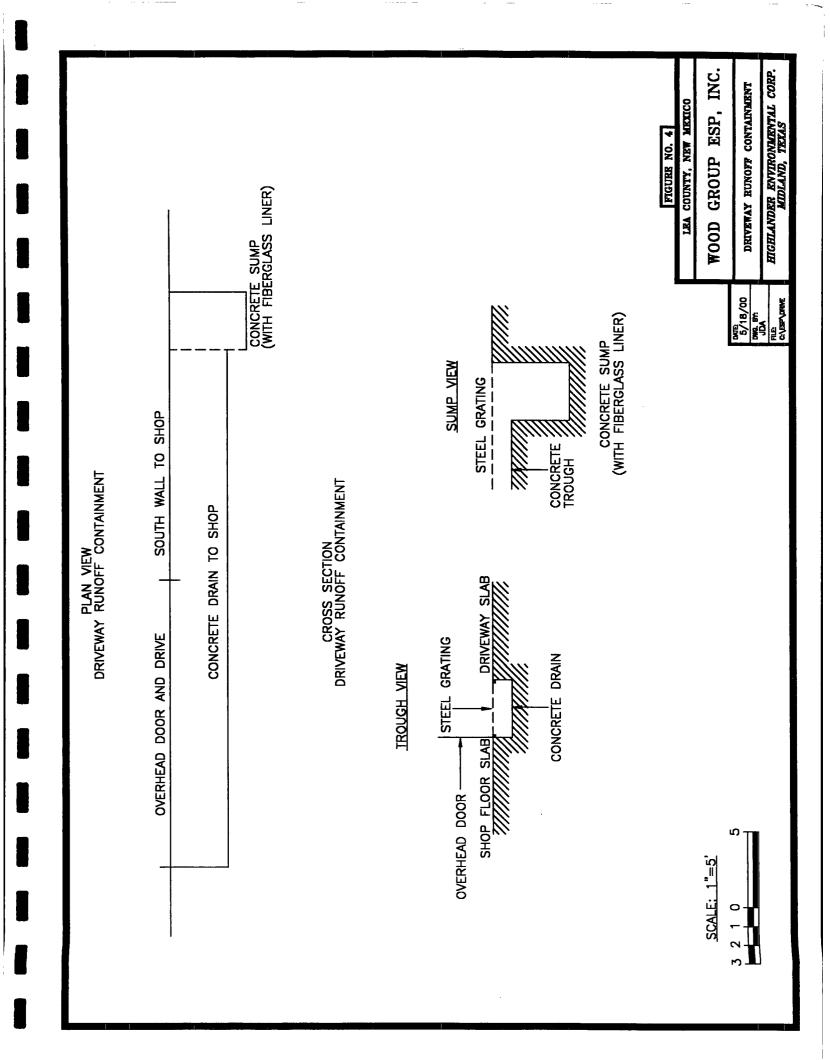
Figures











Appendix A

NMOCD Communications



Mark Larson

From: Sent:

Price, Wayne [WPrice@state.nm.us] Tuesday, April 04, 2000 12:50 PM

To:

'Mark Larson'

Subject:

RE: Approval foe Scope of Work, Wood Group ESP, Inc., Hobbs, NM, 3/6/00

The work plan is hereby approved.

Please be advised that NMOCD approval of this site does not relieve Wood Group ESP of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Wood Group ESP of responsibility for compliance with any other federal, state, or local laws and/or regulations.

```
> From:
           Mark Larson[SMTP:mjlarson@hec-enviro.com]
           Tuesday, April 04, 2000 11:26 AM
> Sent:
> To:
            Price, Wayne
> Cc:
           Larry Merworth
> Subject: Re: Approval foe Scope of Work, Wood Group ESP, Inc.,
> Hobbs, NM, 3/6/00
> Wayne:
> Wood Group ESP, Inc. requested Highlander Environmental Corp. (Highlander)
> to prepare a Scope of Work to address soil and groundwater issues
> identified
> by the NMOCD in conjunction with the renewal of its discharge plan. Wood
> Group ESP, Inc. has temporarily suspended operations at its Hobbs, NM
> facility in order to implement the scope of work and comply with the NMOCD
> requirements. The concrete pad of the drum storage area has been removed
> facilitate soil sample collection, and remediation, if required.
> Therefore,
> a request is made to allow Wood Group ESP, Inc. to implement the scope of
> work submitted to the NMOCD on March 3, 2000. The scope of work includes
> collection of composite soil samples from the drum storage and driveway
> areas, as well as groundwater samples from an onsite water well. Your
> consideration of this request is appreciated. Please call if you have
> questions,
> Mark Larson
```

Appendix B

PID Calibration Record





All-Weather **HORIZONTAL LINE NOTEBOOK**

No. 391

HIGHLANDER ENVIRONMENTAL 1910 N. Big Spring Midland, Texas 79705 (915) 682-4559

CALIBRATION LOG

Thermal Environmental Instruments Model 580B Organic Vapor Meter s/n 580u39693-261

2-14-00 4:15pm; Spaw Cas- 130butjune (75ppm)	by - 116 was 2	4-16.00 GG: 28 Spen Goo: 15 obusty lare (75 ppn) Record: 75.4 ppn.	4-13-00 17:03 Span Ga: 150butylene (75 pp M) Recy Monte Row 11:32 Spon Gar: 150butylene (75 pp M) Recody: 76.7 pp M Ny: 19th May + M. L. London	
Apon Des: clookuly bre (750PM)	Mark Saver	Span East 2000 OF 30 hrs Span East 2000 OF 30 hrs Roady The gpm By Monte Rose	January 7,2000 Sepan May 150 huty lane (75ppm) Ry Mark Rave 15:40 hw Span Mork Rave (75ppm) Ry Mork Rave	

Appendix C

Trace Analysis, Inc. Laboratory Reports



6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A Lubbock, Texas 79424 800 El Paso, Texas 79922 888

800 • 378 • 1296 888 • 588 • 3443

806 • 794 • 1296 915 • 585 • 3443 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Mark Larson

Highlander Environmental Services

1910 N. Big Spring St.

Midland, TX 79705

Project Number:

1459

Project Name:

Wood Group ESP, Inc.

Project Location:

N/A

Report Date:

4/18/00

Order ID Number: A00041205

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
144325	HA-1 0-1'	Soil	4/10/00	9:35	4/12/00
144327	HA-2 0-1'	Soil	4/10/00	10:12	4/12/00
144329	HA-3 0-1'	Soil	4/10/00	10:38	4/12/00
144331	HA-4 0-1'	Soil	4/10/00	11:01	4/12/00
144333	HA-5 0-1'	Soil	4/10/00	11:22	4/12/00

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Report Date:

1459

4/18/00

Order ID Number: A00041205

Page Number: 2 of 3

Wood Group ESP, Inc.

N/A

Analytical Results Report

Sample Number:

144325

Description:

HA-1 0-1'

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TPH GRO (mg/Kg)									
GRO	<5	1	8015B	4/13/00	4/13/00	RC	PB01775	QC02120	0.1

Sample Number:

144327

Description:

HA-2 0-1'

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TPH GRO (mg/Kg) GRO	<5	1	8015B	4/13/00	4/13/00	RC	PB01775	QC02119	0.1

Sample Number:

144329

Description:

HA-3 0-1'

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TPH GRO (mg/Kg)						····			
GRO	<5	1	8015B	4/13/00	4/13/00	RC	PB01775	QC02120	0.1

Sample Number:

144331

Description:

HA-4 0-1'

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TPH GRO (mg/Kg) GRO	<5	1	8015B	4/13/00	4/13/00	RC	PB01775	QC02120	0.1

Sample Number:

144333

Description: HA-5 0-1'

•			Analytical	Date	Date		Prep	QC	
Param	Result	Dilution	Method	Prepared	Analyzed	Analyst	Batch #	Batch #	RDL
TPH GRO (mg/Kg)									
GRO	<5	1	8015B	4/13/00	4/13/00	RC	PB01775	QC02120	0.1

Quality Control Report Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
GRO (mg/Kg)		<5	0.1	4/13/00	PB01775	QC02119
GRO (mg/Kg)		<5	0.1	4/13/00	PB01775	QC02120

Report Date:

1459

4/18/00

Order ID Number: A00041205

Wood Group ESP, Inc.

Page Number: 3 of 3

N/A

Quality Control Report Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	GRO (mg/Kg)	<5	1	1	1.09	109		80 - 120	-	QC02119
LCSD	GRO (mg/Kg)	<5	1	1	0.996	100	9	-	0 - 20	QC02119
	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	GRO (mg/Kg)	<5	1	1	0.996	100		80 - 120	-	QC02120

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch
ICV	GRO (mg/Kg)		1	1.01	101	80 - 120	4/13/00	QC02119
CCV 1	GRO (mg/Kg)		1	0.979	98	80 - 120	4/13/00	QC02119
			001/-		001			
Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
Standard ICV	Param GRO (mg/Kg)	Flag						•

6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 El Paso, Texas 79922

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Mark Larson

Highlander Environmental Services

1910 N. Big Spring St.

Midland, TX 79705

Project Number:

1459

Project Name:

Wood Group ESP, Inc.

Project Location:

Report Date:

4/19/00

Order ID Number: A00041205

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
144325	HA-1 0-1'	Soil	4/10/00	9:35	4/12/00
144327	HA-2 0-1'	Soil	4/10/00	10:12	4/12/00
144329	HA-3 0-1'	Soil	4/10/00	10:38	4/12/00
144331	HA-4 0-1'	Soil	4/10/00	11:01	4/12/00
144333	HA-5 0-1'	Soil	4/10/00	11:22	4/12/00

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Report Date: 4/19/00 Order ID Number: A00041205 Page Number: 2 of 3
1459 Wood Group ESP, Inc. N/A

Analytical Results Report

Sample Number: 144325 Description: HA-1 0-1

DRO

Description:	HA-1 0-1'									
2 0001.p.1.01				Analytical	Date	Date		Prep	QC	
Param		Result	Dilution	Method	Prepared	Analyzed	Analyst	Batch #	Batch #	RDL
TPH DRO (mg/Kg)										
DRO		<50	1	Mod. 8015B	4/12/00	4/17/00	BP	PB01740	QC02156	50
Sample Number:	144327									
Description:	HA-2 0-1'				_					
Param		Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TPH DRO (mg/Kg)										
DRO		<50	1	Mod. 8015B	4/12/00	4/17/00	BP	PB01740	QC02156	50
Sample Number:	144329									
Description:	HA-3 0-1'									
D		DI-	Diletien	Analytical	Date	Date	A14	Prep	QC "	DDI
Param		Result	Dilution	Method	Prepared	Analyzed	Analyst	Batch #	Batch #	RDL
TPH DRO (mg/Kg)	1		•							
DRO		<50	1	Mod. 8015B	4/12/00	4/17/00	BP	PB01740	QC02156	50
Sample Number:	144331									
Description:	HA-4 0-1'				_	_		_		
Param		Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TPH DRO (mg/Kg)										
DRO		<50	1	Mod. 8015B	4/12/00	4/17/00	BP	PB01740	QC02156	50
Sample Number:	144333									
Description:	HA-5 0-1'									
Darram .		D 001-14	Dilution	Analytical	Date	Date	Analyst	Prep	QC	RDL
Param		Kesuit	Dilution	Method	Prepared	Analyzed	Analyst ·	Batch #	Batch #	- KDL
TPH DRO (mg/Kg))								0.0004.51	

Quality Control Report Method Blanks

Mod. 8015B 4/12/00

4/17/00

BP

PB01740 QC02156

50

< 50

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
DRO (mg/Kg)		<50	50	4/17/00	PB01740	QC02156

Report Date:

1459

4/19/00

Order ID Number: A00041205

r. A0004120

Page Number: 3 of 3

N/A

Wood Group ESP, Inc.

Quality Control Report
Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	•	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	DRO (mg/Kg)	<50	1	250	201	80		70 - 130	_	QC02156
LCSD	DRO (mg/Kg)	<50	1	250	197	79	2	-	0 - 20	QC02156

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	DRO (mg/Kg)		250	252	101	70 - 130	4/17/00	QC02156
CCV 1	DRO (mg/Kg)		250	248	99	70 - 130	4/17/00	QC02156

A00041205

		,	ר	PAGE:	OF:	
Analysis Ke	Kequest	and Chain of Custody	Kecora	ANALYSIS RE	- 7	
HICHIANDER	NTARD	FNVIDONMENTAI	CORP	(Circle or Specify	Method No.)	
	1910	N. Big Spring St.		og Bi		
	Midl			שמו		
(915) 682-4559		Fax (915)	882-3946	1 (2-	opį.	
^	ESP, Irc.	SITE MANAGER: LANOON	PRESERVATIVE METHOD	BF CP	Chlon	,
PROJECT NO.: 14.59	PROJECT NAME:		(N/)	SOO/	808 p.H., TDS 60.	
LAB I.D. DATE TIME B	MATRIX COMP. GARB	SAMPLE IDENTIFICATION	BLEX 80SO\ NONE ICE HNO2 HCT LITHERD (LCTR ROUND LCTR ROUND LCTR ROUND LCTR ROUND LCTR NOUND	Pest. 808/	
Q4:35	I X	HA-1, 0-1'	<i>></i>	<i>></i>		_
S 57	У У	HA-1 31	>			-
10:12	ا ا	HA-2, G-1'	-	>		
10:22	X Ar	HA-2, 3'	>			
10:38	>	HA- 3, O-11	→)		
84:01	X	HA.3, 3'	<i>></i>			
	_ X	HA-4, 0-1'	<i>></i>	· .		-
11:09	×.	HA-4, 3'	<i>></i>			
72:11	X	HA. 5, Q-11	<i>></i>	>		***
11:35	X	14-5, 3'	\		\rightarrow	
REINGHRUED BY: (Signature)	Date:	in: 17 11/00 Received Hr. (Stanetura)	Date: 4/11/00	4	C Date: 4/10/20	,
REMINISTRED BY: (Stempture)		4/123pm	Date: Time:	SAMPLE SHIPPED BY: (Chrole) FEDEX (BUS)	AIRBILL #	*
RELINQUISHED BY: (Signature)	}	RECEIVED BY: (Signature) AUH	Date: Time:		ATTENDED TO 1/1/	100
ADDRESS CHOCH	MY.	Ow ITC. RECEIVED	Chusley	HIGHLANDER CONTACT PERSONS	RUSH Charges	ZPA
CONTACT: LICILIA	PHONE: (Sec.)	"		-	You No	ξ
SAMPLE CONDITION WHEN RECEIVED:	7ED:	MATRUX: W-Water A-Air 5D-Solid (S)Soli 3L-Studge O-Other	(40(d · 5)	Samples until Co	Called For	
Flease Fill out all copies - L	Laboratory retu	Laboratory retains yellow copy – Return original copy to Highlander B ~ 1.1 . A.C. ~ 1.0 . A.C. ~ 1.0	Environmental Corp. – Proje	oot Manager retains pink copy –	Accounting receives Gold copy.	AlAla
						:



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FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Mark Larson

Highlander Environmental Services

1910 N. Big Spring St. Midland, TX 79705

Report Date:

4/25/00

Project Number:

1459

Project Name:

Wood Group ESP, Inc.

Order ID Number: A00041206

Project Location:

N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
144335	Water Well	Water	4/10/00	12:25	4/12/00

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Report Date:

1459

4/25/00

Order ID Number: A00041206

Wood Group ESP, Inc.

Page Number: 2 of 20

N/A

Analytical Results Report

Sample Number:

Sample Number: 144333									
Description: Water Well			Analytical	Date	Date		Prep	QC	
Param	Result	Dilution	Method	Prepared	Analyzed	Analyst	Batch #	Batch #	RDL
8260 (μg/L)									
Bromochloromethane	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Dichlorodifluoromethane	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Chloromethane (methyl chloride)	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Vinyl Chloride	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Bromomethane (methyl bromide)	< 5.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	5
Chloroethane	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	-	2
Trichlorofluoromethane	< 2.00	1	S 8260B	4/16/00	4/16/00	1G	PB01761	QC02108	2
Acetone	<10.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	10
Iodomethane (methyl iodide)	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Carbon Disulfide	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Acrylonitrile	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
2-Butanone (MEK)	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
4-methyl-2-pentanone (MIBK)	<10.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	10
2-hexanone	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
trans 1,4-Dichloro-2-butene	<10.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	10
1,1-Dichloroethene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Methylene chloride	< 5.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	5
MTBE	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
trans-1,2-Dichloroethene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
1,1-Dichloroethane	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
cis-1,2-dichloroethene	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	-	2
2,2-Dichloropropane	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
1,2-Dichloroethane (EDC)	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Chloroform	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
1,1,1-Trichloroethane	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
1,1-Dichloropropene	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Benzene	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Carbon Tetrachloride	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
1,2-Dichloropropane	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761		2
Trichloroethene (TCE)	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Dibromomethane (methylene bromide)	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Bromodichloromethane	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
2-Chloroethyl vinyl ether	<10.00		S 8260B	4/16/00	4/16/00	JG	PB01761		10
cis-1,3-Dichloropropene	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761		2
trans-1,3-Dichloropropene	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	-	2
Toluene	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761		2
1,1,2-Trichloroethane	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	•	2
1,3-Dichloropropane	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761		2
Dibromochloromethane	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	•	2
1,2-Dibromoethane (EDB)	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Tetrachloroethene (PCE)	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Chlorobenzene	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
1,1,1,2-Tetrachloroethane	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
	<2.00		S 8260B	4/16/00	4/16/00	1G	PB01761	-	2
Ethylbenzene	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761		2
m,p-Xylene Bromoform	<2.00		S 8260B	4/16/00	4/16/00	1G	PB01761		2
Styrene	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761		2
o-Xylene	<2.00		S 8260B	4/16/00	4/16/00	JG	PB01761	-	2

Report Date: 4/25/00	Ord	er ID Nu	mber: A00	0041206			Page N	Number: 3	of 20
1459	Wo	od Group	ESP, Inc.	•					N/A
1,1,2,2-Tetrachloroethane	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	
2-Chlorotoluene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
1,2,3-Trichloropropane	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Isopropylbenzene	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Bromobenzene	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
n-Propylbenzene	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
1,3,5-Trimethylbenzene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
tert-Butylbenzene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	
1,2,4-Trimethylbenzene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	;
1,4-Dichlorobenzene (para)	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	:
sec-Butylbenzene	<2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
1,3-Dichlorobenzene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	:
p-Isopropyltoluene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
4-Chlorotoluene	< 2.00	i	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	:
1,2-Dichlorobenzene (ortho)	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	:
n-Butylbenzene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	
1,2-Dibromo-3-chloropropane	< 5.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	;
1,2,3-Trichlorobenzene	<5.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	:
1,2,4-Trichlorobenzene	<5.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	:
Naphthalene	< 2.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	2
Hexachlorobutadiene	<5.00	1	S 8260B	4/16/00	4/16/00	JG	PB01761	QC02108	:
			Spike	%	% Rec.		Prep	QC	
Surrogate (µg/L)	Result	Dilution	Amount	Rec.	Limit	Analyst	Batch #	Batch #	
Dibromofluoromethane	50.40	1	50	101	72 - 128	JG	PB01761	QC02108	
Toluene-d8	53.51	1	50	107	91 - 107	JG	PB01761	QC02108	
4-Bromofluorobenzene	45.09	1	50	90	74 - 106	JG	PB01761	QC02108	
8270 (mg/L)									
Pyridine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
n-Nitrosodimethylamine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
2-Picoline	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
Methyl methanesulfonate	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
Ethyl methanesulfonate	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
Phenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
Aniline	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
bis (2-chloroethyl) ether	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
2-Chlorophenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
1,3-Dichlorobenzene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
1,4-Dichlorobenzene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
Benzyl alcohol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
1,2-Dichlorobenzene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
2-Methylphenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
bis (2-chloroisopropyl) ether	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.00
4-Methylphenol/3-Methylphenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	-	0.00
Acetophenone	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	-	0.00
n-Nitrosodi-n-propylamine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	•	0.00
Hexachloroethane	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	•	0.00
Nitrobenzene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	-	0.00
n-Nitrosopiperidine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	-	0.00
Isophorone	< 0.005	I	S 8270C	4/12/00	4/17/00	MA	PB01736	-	0.00
2-Nitrophenol	< 0.005	I	S 8270C	4/12/00	4/17/00	MA	PB01736	•	0.00
2,4-Dimethylphenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	-	0.00
bis (2-chloroethoxy) methane	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	-	0.00
Benzoic acid	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	•	0.00
		_	0.0000	4/10/00	4/17/00	MA	DD01726	0.003160	0.00
2,4-Dichlorophenol	<0.005 <0.005	1	S 8270C S 8270C	4/12/00 4/12/00	4/17/00 4/17/00	MA	PB01736	QC02150 QC02150	

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Report Date: 4/25/00 Order ID Number: A00041206							Page N	lumber: 4	of 2
459	Woo	od Gro	up ESP, Inc.						N/
a,a-Dimethylphenethylamine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.0
Naphthalene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.0
4-Chloroaniline	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.0
2,6-Dichlorophenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.0
Hexachlorobutadiene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
n-Nitroso-di-n-butylamine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
4-Chloro-3-methylphenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
1-Methylnaphthalene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
2-Methylnaphthalene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
1,2,4,5-Tetrachlorobenzene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
Hexachlorocyclopentadiene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
2,4,6-Trichlorophenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
2,4,5-Trichlorophenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
2-Chloronaphthalene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
1-Chloronaphthalene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
2-Nitroaniline	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Dimethylphthalate	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Acenaphthylene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
2,6-Dinitrotoluene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
3-Nitroaniline	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Acenaphthene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
2,4-Dinitrophenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Dibenzofuran	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Pentachlorobenzene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
4-Nitrophenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
1-Napthylamine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
2,4-Dinitrotoluene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
2-Napthylamine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
2,3,4,6-Tetrachlorophenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Fluorene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Diethylphthalate	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
4-Chlorophenyl-phenylether	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
4-Nitroaniline	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
4,6-Dinitro-2-methylphenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Diphenylamine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Diphenylhydrazine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
4-Bromophenyl-phenylether	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Phenacetin	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Hexachlorobenzene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
4-Aminobiphenyl	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Pentachlorophenol	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Pentachloronitrobenzene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Pronamide	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Phenanthrene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Anthracene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Di-n-butylphthalate	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Fluoranthene	< 0.005	I	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Benzidine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
Pyrene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
p-Dimethylaminoazobenzene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Butylbenzylphthalate	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Benzo(a)anthracene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
3,3-Dichlorobenzidine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.
Chrysene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Bis (2-ethylhexyl) phthalate	< 0.005	t	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0
Di-n-octylphthalate	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0

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Report Date: 4/25/00	Ord	Page N	Number: 5	of 20					
1459	Wo	ood Grou	p ESP, Inc.	,					N/A
Benzo(b)fluoranthene	<0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.005
7,12-Dimethylbenz(a)anthracene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.005
Benzo(k)fluoranthene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.005
Benzo(a)pyrene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.005
3-Methylcholanthrene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.005
Dibenzo(a,j)acridine	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.005
Indeno(1,2,3-cd)pyrene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.005
Dibenzo(a,h)anthracene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.005
Benzo(g,h,i)perylene	< 0.005	1	S 8270C	4/12/00	4/17/00	MA	PB01736	QC02150	0.005
Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
2-Fluorophenol	25.14	1	80	31	8 - 73	MA	PB01736	QC02150	
Phenol-d5	17.34	1	80	22	8 - 62	MA	PB01736	QC02150	
Nitrobenzene-d5	51.84	1	80	65	44 - 109	MA	PB01736	QC02150	
2-Fluorobiphenyl	53.85	1	80	67	45 - 109	MA	PB01736	QC02150	
2,4,6-Tribromophenol	44.95	1	80	56	39 - 132	. MA	PB01736	QC02150	
Terphenyl-d14	48.16	1	80	60	46 - 121	MA		QC02150	
Alkalinity (mg/L as CaCo3)									
Hydroxide Alkalinity	<1.0	1	E 310.1	4/17/00	4/17/00	LD	PB01788	QC02142	1
Carbonate Alkalinity	<1.0	1	E 310.1	4/17/00	4/17/00	LD	PB01788	QC02142	1
Bicarbonate Alkalinity	193	1	E 310.1	4/17/00	4/17/00	LD	PB01788	QC02142	1
Total Alkalinity	193	1	E 310.1	4/17/00	4/17/00	LD	PB01788	QC02142	1
Dissolved Metals (mg/L)									
Dissolved Calcium	73	1	S 6010B	4/17/00	4/17/00	RR	PB01762	QC02109	0.5
Dissolved Magnesium	19	1	S 6010B	4/17/00	4/17/00	RR	PB01762	QC02109	0.5
Dissolved Potassium	3.5	1	S 6010B	4/17/00	4/17/00	RR	PB01762	QC02109	0.5
Dissolved Sodium	44	1	S 6010B	4/17/00	4/17/00	RR	PB01762	QC02109	0.5
Hardness (mg/L as CaCo3)									
Hardness	260	1	SM 2340B	4/17/00	4/17/00	RR	PB01808	QC02173	1
Hg, Total (mg/L)									
Total Mercury	< 0.0002	1	S 7470A	4/17/00	4/19/00	JM	PB01820	QC02187	0.0002
Ion Chromatography (IC) (mg/L)									
CL	* 44	1	E 300.0	4/12/00	4/12/00	JS	PB01752	QC02099	0.5
Fluoride	* 1.8	1	E 300.0	4/12/00	4/12/00	JS		QC02099	0.2
Nitrate-N	* 5.0	1	E 300.0	4/12/00	4/12/00	JS		QC02099	0.2
Sulfate	* 100	1	E 300.0	4/12/00	4/12/00	JS		QC02099	0.5
* CL - Chloride re-ran on IC041300.s	ch. ICV %IA =	90; CCV	%IA = 92; LI	B spikes %	6RPD = 1; L	RB spikes			

because I am re-running the sample that I spiked.

^{*} Sulfate - Sulfate re-ran on IC041300.sch. ICV %IA = 91; CCV %IA = 94; LRB spikes %RPD = 0; LRB spikes %EA = 91. LRB spikes user because I am re-running the sample that I spiked.

pH (s.u.) pH * pH - Out of holding time.	* 7.4	1	E 150.1	4/12/00	4/12/00	RS	PB01771	QC02112	1
TDS (mg/L) Total Dissolved Solids	500	1	E 160.1	4/14/00	4/14/00	JS	PB01760	QC02126	10
Total Metals (mg/L)									
Total Arsenic	< 0.01	1	S 6010B	4/17/00	4/18/00	RR	PB01763	QC02147	0.01
Total Barium	0.04	1	S 6010B	4/17/00	4/18/00	RR	PB01763	QC02147	0.01

^{*} Fluoride - Fluoride re-ran on IC041300.sch. ICV %IA = 99; CCV %IA = 99; LRB spikes %RPD = 0; LRB spikes %EA = 98. LRB spikes used because I am re-running the sample that I spiked.

^{*} Nitrate-N - Sample out of holding time for NO3.

Report Date: 4/25/00	Orde	r ID N	lumber: A00	0041206			Page N	lumber: 6	6 of 20	
1459	Woo	od Gro	up ESP, Inc.	,			N			
Total Cadmium	< 0.005	1	S 6010B	4/17/00	4/18/00	RR	PB01763	QC02147	0.005	
Total Chromium	< 0.01	1	S 6010B	4/17/00	4/18/00	RR	PB01763	QC02147	0.01	
Total Lead	0.03	1	S 6010B	4/17/00	4/18/00	RR	PB01763	QC02147	0.005	
Total Selenium	< 0.01	1	S 6010B	4/17/00	4/18/00	RR	PB01763	QC02147	0.01	
Total Silver	< 0.002	1	· S 6010B	4/17/00	4/18/00	RR	PB01763	QC02147	0.002	

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Report Date: 4/25/00

1459

Order ID Number: A00041206

Page Number: 7 of 20

N/A

Wood Group ESP, Inc.

Quality Control Report Method Blanks

		Menio	i Dianks			
Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Bromochloromethane (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Dichlorodifluoromethane (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
Chloromethane (methyl chloride) (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
Vinyl Chloride (μg/L)		< 2.00	2	4/16/00	PB01761	QC02108
Bromomethane (methyl bromide) (µg/L)		<5.00	5	4/16/00	PB01761	QC02108
Chloroethane (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
Trichlorofluoromethane (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
Acetone (µg/L)		<10.00	10	4/16/00	PB01761	QC02108
Iodomethane (methyl iodide) (μg/L)		<2.00	2	4/16/00	PB01761	QC02108
Carbon Disulfide (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Acrylonitrile (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
2-Butanone (MEK) (μg/L)		< 2.00	2	4/16/00	PB01761	QC02108
4-methyl-2-pentanone (MIBK) (μg/L)		<10.00	10	4/16/00	PB01761	QC02108
2-hexanone (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
trans 1,4-Dichloro-2-butene (µg/L)		<10.00	10	4/16/00	PB01761	QC02108
1,1-Dichloroethene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Methylene chloride (μg/L)		<5.00	5	4/16/00	PB01761	QC02108
MTBE (μg/L)		<2.00	2	4/16/00	PB01761	QC02108
trans-1,2-Dichloroethene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,1-Dichloroethane (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
cis-1,2-dichloroethene (μg/L)		<2.00	2	4/16/00	PB01761	QC02108
2,2-Dichloropropane (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,2-Dichloroethane (EDC) (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Chloroform (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,1,1-Trichloroethane (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,1-Dichloropropene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Benzene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Carbon Tetrachloride (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,2-Dichloropropane (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Trichloroethene (TCE) (μg/L)		<2.00	2	4/16/00	PB01761	QC02108
Dibromomethane (methylene bromide) (μg		<2.00	2	4/16/00	PB01761	QC02108
Bromodichloromethane (μg/L)		<2.00	2	4/16/00	PB01761	QC02108
2-Chloroethyl vinyl ether (µg/L)		<10.00	10	4/16/00	PB01761	QC02108
cis-1,3-Dichloropropene (μg/L)		<2.00	2	4/16/00	PB01761	QC02108
trans-1,3-Dichloropropene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Toluene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,1,2-Trichloroethane (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,3-Dichloropropane (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Dibromochloromethane (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,2-Dibromoethane (EDB) (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Tetrachloroethene (PCE) (μg/L)		<2.00	2	4/16/00	PB01761	QC02108
Chlorobenzene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,1,1,2-Tetrachloroethane (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Ethylbenzene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
m,p-Xylene (μg/L)		<2.00	2	4/16/00	PB01761	QC02108

Report Date: 4/25/00	Ord	er ID Numb	er: A00041206		Page N	umber: 8 of 20
1459	. Wo	od Group E	SP, Inc.	•	· ·	N/A
Bromoform (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
Styrene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
o-Xylene (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
1,1,2,2-Tetrachloroethane (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
2-Chlorotoluene (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
1,2,3-Trichloropropane (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
Isopropylbenzene (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
Bromobenzene (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
n-Propylbenzene (μg/L)		< 2.00	2	4/16/00	PB01761	QC02108
1,3,5-Trimethylbenzene (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
tert-Butylbenzene (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
1,2,4-Trimethylbenzene (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
1,4-Dichlorobenzene (para) (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
sec-Butylbenzene (µg/L)		< 2.00	2	4/16/00	PB01761	QC02108
1,3-Dichlorobenzene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
p-Isopropyltoluene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
4-Chlorotoluene (μg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,2-Dichlorobenzene (ortho) (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
n-Butylbenzene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108
1,2-Dibromo-3-chloropropane (µg/L)		< 5.00	5	4/16/00	PB01761	QC02108
1,2,3-Trichlorobenzene (µg/L)		< 5.00	5	4/16/00	PB01761	QC02108
1,2,4-Trichlorobenzene (µg/L)		< 5.00	5	4/16/00	PB01761	QC02108
Naphthalene (µg/L)		<2.00	2	4/16/00	PB01761	QC02108 QC02108
Hexachlorobutadiene (µg/L)		< 5.00	5	4/16/00	PB01761	QC02108 QC02108
Trexacmoroutatione (µg/L)		13.00	Spike	%	% Rec.	QC02108 QC
Surrogate		Result	Amount	Rec.	Limit	Batch #
Dibromofluoromethane (µg/L)		48.16	50	96	72 - 128	QC02108
Toluene-d8 (µg/L)		53.05	50	106	91 - 107	QC02108
4-Bromofluorobenzene (μg/L)		44.04	50	88	74 - 106	QC02108
Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.005	0.005	4/17/00	PB01736	QC02150
n-Nitrosodimethylamine (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150
2-Picoline (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150
Methyl methanesulfonate (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150
Ethyl methanesulfonate (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150
Phenol (mg/L)		< 0.005	0.005	4/17/00	PB01736	-
Aniline (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150
bis (2-chloroethyl) ether (mg/L)		< 0.005	0.005	4/17/00		QC02150
2-Chlorophenol (mg/L)		<0.005	0.005		PB01736	QC02150
, , ,		< 0.005	0.005	4/17/00	PB01736	QC02150
1,3-Dichlorobenzene (mg/L)				4/17/00	PB01736	QC02150
1,4-Dichlorobenzene (mg/L)		<0.005	0.005	4/17/00	PB01736	QC02150
Benzyl alcohol (mg/L)		<0.005	0.005	4/17/00	PB01736	QC02150
1,2-Dichlorobenzene (mg/L)		<0.005	0.005	4/17/00	PB01736	QC02150
2-Methylphenol (mg/L)		<0.005	0.005	4/17/00	PB01736	QC02150
bis (2-chloroisopropyl) ether (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150
4-Methylphenol/3-Methylphenol (mg/L)		<0.005	0.005	4/17/00	PB01736	QC02150
Acetophenone (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150
n-Nitrosodi-n-propylamine (mg/L)		<0.005	0.005	4/17/00	PB01736	QC02150
Hexachloroethane (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150

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Report Date: 4/25/00	Order ID Numbe	r: A00041206		Page Number: 9 of 2				
1459	Wood Group ES	P, Inc.	,					
Nitrobenzene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
n-Nitrosopiperidine (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Isophorone (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2-Nitrophenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2,4-Dimethylphenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
bis (2-chloroethoxy) methane (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Benzoic acid (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2,4-Dichlorophenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
1,2,4-Trichlorobenzene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
a,a-Dimethylphenethylamine (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Naphthalene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
4-Chloroaniline (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2,6-Dichlorophenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Hexachlorobutadiene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
n-Nitroso-di-n-butylamine (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
4-Chloro-3-methylphenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
1-Methylnaphthalene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2-Methylnaphthalene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
1,2,4,5-Tetrachlorobenzene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Hexachlorocyclopentadiene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2,4,6-Trichlorophenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2,4,5-Trichlorophenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2-Chloronaphthalene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
1-Chloronaphthalene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2-Nitroaniline (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Dimethylphthalate (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Acenaphthylene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2,6-Dinitrotoluene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
3-Nitroaniline (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Acenaphthene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2,4-Dinitrophenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Dibenzofuran (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Pentachlorobenzene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
4-Nitrophenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
1-Napthylamine (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2,4-Dinitrotoluene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2-Napthylamine (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
2,3,4,6-Tetrachlorophenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Fluorene (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Diethylphthalate (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
4-Chlorophenyl-phenylether (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
4-Nitroaniline (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
4,6-Dinitro-2-methylphenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Diphenylamine (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Diphenylhydrazine (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
4-Bromophenyl-phenylether (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Phenacetin (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Hexachlorobenzene (mg/L)	<0.005	0.005	4/17/00	PB01736	QC02150			
4-Aminobiphenyl (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150			
Pentachlorophenol (mg/L)	< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150			
i chiacmorophenoi (mg/L)	₹0.005	0.005	., 1700	1 501750	QC02130			

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Report Date: 4/25/00	Ord	er ID Numb	er: A00041206	Page Number: 10 of 20				
1459	Wo	od Group E	SP, Inc.		N/A			
Pronamide (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
Phenanthrene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
Anthracene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
Di-n-butylphthalate (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
Fluoranthene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
Benzidine (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
Pyrene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
p-Dimethylaminoazobenzene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
Butylbenzylphthalate (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
Benzo(a)anthracene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150		
3,3-Dichlorobenzidine (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150		
Chrysene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150		
Bis (2-ethylhexyl) phthalate (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150		
Di-n-octylphthalate (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150		
Benzo(b)fluoranthene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150		
7,12-Dimethylbenz(a)anthracene (mg/L)		<0.005	0.005	4/17/00	PB01736	QC02150 QC02150		
Benzo(k)fluoranthene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150		
Benzo(a)pyrene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150		
3-Methylcholanthrene (mg/L)		< 0.005	0.005	4/17/00	PB01736	QC02150 QC02150		
Dibenzo(a,j)acridine (mg/L)		<0.005	0.005	4/17/00	PB01736	-		
Indeno(1,2,3-cd)pyrene (mg/L)		<0.005	0.005	4/17/00	PB01736	QC02150		
Dibenzo(a,h)anthracene (mg/L)		<0.005	0.005	4/17/00		QC02150		
		<0.005	0.005	4/17/00	PB01736	QC02150		
Benzo(g,h,i)perylene (mg/L)		<0.003	Spike	4/1 //00 %	PB01736	QC02150		
Surrogate		Result	Amount	Rec.	% Rec. Limit	QC Batch #		
2-Fluorophenol (mg/L)		27.53	80	34	8 - 73	QC02150		
Phenol-d5 (mg/L)		19.79	80	25	8 - 62	QC02150		
Nitrobenzene-d5 (mg/L)		48.55	80	61	44 - 109	QC02150		
2-Fluorobiphenyl (mg/L)		50.11	80	63	45 - 109	QC02150		
2,4,6-Tribromophenol (mg/L)		43.51	80	54	39 - 132	QC02150		
Terphenyl-d14 (mg/L)		46.62	80	58	46 - 121	QC02150		
A Commission of the second sec		Blank	Reporting	Date	Prep	QC		
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #		
Hydroxide Alkalinity (mg/L as CaCo3)		<1.0	1	4/17/00	PB01788	QC02142		
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	4/17/00	PB01788	QC02142		
Bicarbonate Alkalinity (mg/L as CaCo3)		<1.0	1	4/17/00	PB01788	QC02142		
Total Alkalinity (mg/L as CaCo3)		<1.0	1	4/17/00	PB01788	QC02142		
		Blank	Reporting	Date	Prep	QC		
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #		
Dissolved Calcium (mg/L)		<.50	0.5	4/17/00	PB01762	QC02109		
Dissolved Magnesium (mg/L)		<.50	0.5	4/17/00	PB01762	QC02109		
Dissolved Potassium (mg/L)		<.50	0.5	4/17/00	PB01762	QC02109		
Dissolved Sodium (mg/L)		<.50	0.5	4/17/00	PB01762	QC02109		
Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #		
Total Mercury (mg/L)	- 145	<0.0002	0.0002	4/19/00	PB01820	QC02187		

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Report Date: 4/25/00	Ord	er ID Numb	er: A00041206		Page Nu	mber: 11 of 20		
1459	Wo	od Group E	SP, Inc.	•	N/A			
Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #		
CL (mg/L)		<0.5	0.5	4/12/00	PB01752	QC02099		
Fluoride (mg/L)		< 0.2	0.2	4/12/00	PB01752	QC02099		
Nitrate-N (mg/L)		< 0.2	0.2	4/12/00	PB01752	QC02099		
Sulfate (mg/L)		<0.5	0.5	4/12/00	PB01752	QC02099		
Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #		
Total Dissolved Solids (mg/L)		<10	10	4/14/00	PB01760	QC02126		
		Blank	Reporting	Date	Prep	QC		
Param	Flag	Result	Limit	Analyzed	Batch #	Batch #		
Total Arsenic (mg/L)		< 0.01	0.01	4/18/00	PB01763	QC02147		
Total Barium (mg/L)		< 0.01	0.01	4/18/00	PB01763	QC02147		
Total Cadmium (mg/L)		< 0.005	0.005	4/18/00	PB01763	QC02147		
Total Chromium (mg/L)		< 0.01	0.01	4/18/00	PB01763	QC02147		
Total Lead (mg/L)		< 0.005	0.005	4/18/00	PB01763	QC02147		
Total Selenium (mg/L)		< 0.01	0.01	4/18/00	PB01763	QC02147		
Total Silver (mg/L)		< 0.002	0.002	4/18/00	PB01763	QC02147		

Report Date: 4/25/00

1459

Order ID Number: A00041206

Wood Group ESP, Inc.

Page Number: 12 of 20

N/A

Quality Control Report Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Nitrate-N (mg/L)	4.1	1.	25	26.73	91		80 - 120	•	QC02099
MSD	Nitrate-N (mg/L)	4.1	1	25	26.49	90	1	-	0 - 20	QC02099
	The state of the s	· · · · · · · · · · · · · · · · · · ·		Spike	Matrix					
a	_	Sample	D'I	Amount	Spike	%	DDD	% Rec.	RPD	QC "
Standard	Param	Result	Dil.	Added	Result		RPD	Limit	Limit	Batch #
MS	1,1-Dichloroethene (ug/L)	<2.00	1	100	84	84		80 - 120	-	QC02108
MS	1,1-Dichloroethene (ug/L)	<2.00	1	100	84	84		79 - 129	-	QC02108
MS	Benzene (ug/L)		1	100	89	89		77 - 130	-	QC02108
MS	Trichloroethene (TCE) (ug/L)	<2.00	1	100	90	90		83 - 108	-	QC02108
MS	Toluene (ug/L)	< 2.00	1	100	86	86		85 - 114	-	QC02108
MS	Chlorobenzene (ug/L)	< 2.00	1	100	92	92		87 - 114	-	QC02108
Standard MS	Surrogate Dibromofluoromethane (µg/L)	Result 48.46	Dil.	Spike Amount 50	Analyst JG	% Rec. 97		% Rec. Limit 72 - 128	Prep Batch # PB01761	QC Batch # QC02108
MS	Toluene-d8 (µg/L)	50.55	1	50	JG	101		91 - 107	PB01761	
MS	4-Bromofluorobenzene (μg/L)	45.04	1	50	JG	90		74 - 106	PB01761	•
MSD	1,1-Dichloroethene (ug/L)	<2.00	1	100	84	84	0	-	0 - 20	QC02108
MSD	1,1-Dichloroethene (ug/L)	< 2.00	1	100	84	84	0	-	0 - 20	QC02108
MSD	Benzene (ug/L)		1	100	89	89	0	-	0 - 20	QC02108
MSD	Trichloroethene (TCE) (ug/L)	<2.00	1	100	90	90	0	-	0 - 20	QC02108
MSD	Toluene (ug/L)	< 2.00	1	100	87	87	1	-	0 - 20	QC02108
MSD	Chlorobenzene (ug/L)	< 2.00	1	100	92	92	0	-	0 - 20	QC02108
Or to a	Survey and a	Result	Dil	Spike	Amalaus	%		% Rec.	Prep	QC
Standard MSD	Surrogate Dibromofluoromethane (µg/L)	48.88	ווע.	Amount 50	Analyst JG	Rec. 98		Limit 72 - 128	Batch # PB01761	Batch # QC02108
MSD	Toluene-d8 (μg/L)	50.48	1	50	1G	101		91 - 107	PB01761	
MSD	4-Bromofluorobenzene (μg/L)	45.39	1	50	JG	91		74 - 106	PB01761	-
	Param	Sample Result	Dil	Spike Amount Added	Matrix Spike Result	% Page	RPD	% Rec.	RPD Limit	QC Batch #
Standard							KrD			
MS	Dissolved Calcium (mg/L)	561	1	1000	1573	101		75 - 125	-	QC02109
MS	Dissolved Magnesium (mg/L)	210	1	1000	1160	95		75 - 125	-	QC02109
MS	Dissolved Potassium (mg/L)	5.9	1	1000	1110	110		75 - 125	-	QC02109
MS	Dissolved Sodium (mg/L)	870	1	1000	1673	80		75 - 125	-	QC02109
MSD	Dissolved Calcium (mg/L)	561	1	1000	1520	96	5	-	0 - 20	QC02109
MSD	Dissolved Magnesium (mg/L)	210	1	1000	1102	89	6	-	0 - 20	QC02109
MSD	Dissolved Potassium (mg/L)	5.9	1	1000	1068	106	4	=	0 - 20	QC02109
MSD	Dissolved Sodium (mg/L)	870	1	1000	1653	78	3	-	0 - 20	QC02109
		 			•					

Report Dat	e: 4/25/00 Or	der ID Nu	ımber	: A0004	Page Number: 13 of 2					
1459	W	ood Grou	p ESF	, Inc.	•					N/A
Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Arsenic (mg/L)	< 0.01	1	2	1.94	97		75 - 125	-	QC02147
MS	Total Barium (mg/L)	0.03	1	2	1.88	93		75 - 125	-	QC02147
MS	Total Cadmium (mg/L)	< 0.005	1	2	1.83	92		75 - 125	-	QC02147
MS	Total Chromium (mg/L)	< 0.01	1	2	1.88	94		75 - 125	-	QC02147
MS	Total Lead (mg/L)	< 0.005	1	2	1.77	89		75 - 125	_	QC02147
MS	Total Selenium (mg/L)	< 0.01	1	2	1.72	86		75 - 125	-	QC02147
MS	Total Silver (mg/L)	< 0.002	1	0.01	.008	80		75 - 125	-	QC02147
MSD	Total Arsenic (mg/L)	<0.01	1	2	1.91	96	2	-	0 - 20	QC02147
MSD	Total Barium (mg/L)	0.03	1	2	1.84	91	2	-	0 - 20	QC02147
MSD	Total Cadmium (mg/L)	< 0.005	1	2	1.80	90	2	-	0 - 20	QC02147
MSD	Total Chromium (mg/L)	< 0.01	1	2	1.84	92	2	-	0 - 20	QC02147
MSD	Total Lead (mg/L)	< 0.005	1	2	1.74	87	2	-	0 - 20	QC02147
MSD	Total Selenium (mg/L)	< 0.01	1	2	1.69	85	2	-	0 - 20	QC02147
MSD	Total Silver (mg/L)	<0.002	1	0.01	.009	90	12	-	0 - 20	QC02147
		Sample		Spike Amount	Matrix Spike	%		% Rec.	RPD	QC
Standard	Param	Result	Dil.	Added	Result		RPD	Limit	Limit	Batch #
MS	Total Mercury (mg/L)	<0.0002	1	0.001	0.00120	120		80 - 120	-	QC02187
MSD	Total Mercury (mg/L)	<0.0002	1	0.001	0.001150	115	4	-	0 - 20	QC02187
	Q	uality (trol Re	eport					
		-								
Standard	Param		uplica Resul		Sample Result	Dilut	ion	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0		<1.0	1		0	0 - 20	QC02142
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0		<1.0	1		0	0 - 20	QC02142
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		37		39	1		5	0 - 20	QC02142
Duplicate	Total Alkalinity (mg/L as CaCo3)		37		39	1		5	0 - 20	QC02142
Standard	Param		uplica Resul		Sample Result	Dilut	tion	RPD	RPD Limit	QC Batch #
			7.1		7.1	1		0	0 - 20	QC02112

Duplicate

Result

103,000

Flag

Standard

Param

Duplicate Total Dissolved Solids (mg/L)

Sample Result

100,000

Dilution

1

RPD

3

RPD Limit

0 - 20

QC Batch #

QC02126

Report Date: 4/25/00 1459

Order ID Number: A00041206

Wood Group ESP, Inc.

Page Number: 14 of 20

N/A

Report Date: 4/25/00

1459

Order ID Number: A00041206

Wood Group ESP, Inc.

Page Number: 15 of 20

of 20 N/A

Quality Control Report Lab Control Spikes and Duplicate Spike

			Spike	Matrix					
	Blank		Amount	Spike	%		% Rec.	RPD	QC
Param	Result	Dil.	Added	Result	Rec.	RPD	Limit	Limit	Batch #
LCS 1,1-Dichloroethene (ug/L)	<2.00	1	100	87	87		80 - 120	-	QC02108
LCS Benzene (ug/L)	<2.00	1	100	93	93		77 - 130	-	QC02108
LCS Trichloroethene (TCE) (ug/L)	<2.00	1	100	93	93		83 - 108	-	QC02108
LCS Toluene (ug/L)	<2.00	1	100	90	90		85 - 114	-	QC02108
LCS Chlorobenzene (ug/L)	<2.00	1	100	95	95		87 - 114	-	QC02108
Standard Surrogate LCS Dibromofluoromethane (µg/L)		Dil.	Spike Amount 50	Result 49.70	% Rec. 99		% Rec. Limit 72 - 128		QC Batch # QC02108
LCS Toluene-d8 (µg/L)		1	50	50.68	101		91 - 107		QC02108
LCS 4-Bromofluorobenzene (µg/L)		1	50	45.90	92		74 - 106		QC02108
LCSD 1,1-Dichloroethene (ug/L)	<2.00	1	100	87	87	0	-	0 - 20	QC02108
LCSD 1,1-Dichloroethene (ug/L)	< 2.00	1	100	87	87	0	-	0 - 20	QC02108
LCSD Benzene (ug/L)	<2.00	1	100	92	92	1	-	0 - 20	QC02108
LCSD Trichloroethene (TCE) (ug/L)	< 2.00	1	100	91	91	2	-	0 - 20	QC02108
LCSD Toluene (ug/L)	<2.00	1	100	90	90	0	-	0 - 20	QC02108
LCSD Chlorobenzene (ug/L)	< 2.00	1	100	95	95	0	-	0 - 20	QC02108
Standard Surrogate LCSD Dibromofluoromethane (µg/L) LCSD Toluene-d8 (µg/L)		Dil. 1 1	Spike Amount 50 50	Result 49.87 50.94	% Rec. 100 102		% Rec. Limit 72 - 128 91 - 107		QC Batch # QC02108 QC02108
LCSD 4-Bromofluorobenzene (µg/L)		1	50	45.25	91		74 - 106		QC02108

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec. RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Phenol (mg/L)	<0.005	1	80	42.574	53	5 - 57	-	QC02150
LCS	2-Chlorophenol (mg/L)	< 0.005	1	80	61.649	77	29 - 110	-	QC02150
LCS	1,4-Dichlorobenzene (mg/L)	< 0.005	1	80	45.078	56	25 - 94	-	QC02150
LCS	n-Nitrosodi-n-propylamine (mg/L)	< 0.005	1	80	68.014	85	36 - 119	-	QC02150
LCS	1,2,4-Trichlorobenzene (mg/L)	< 0.005	1	80	53.469	67	28 - 110	-	QC02150
LCS	4-Chloro-3-methylphenol (mg/L)	< 0.005	1	80	72.666	91	40 - 126	-	QC02150
LCS	Acenaphthene (mg/L)	< 0.005	1	80	71.889	90	47 - 118	-	QC02150
LCS	4-Nitrophenol (mg/L)	< 0.005	1	80	28.938	36	0 - 69	-	QC02150
LCS	2,4-Dinitrotoluene (mg/L)	< 0.005	1	80	59.722	75	46 - 133	-	QC02150
LCS	Pentachlorophenol (mg/L)	< 0.005	1	80	59.026	74	21 - 131	-	QC02150
LCS	Pyrene (mg/L)	< 0.005	1	80	56.803	71	44 - 125	-	QC02150

Report	Date: 4/25/00	Order ID N	umber	: A00041	206			Page	Number	16 of 2
1459		Wood Gro	up ESF	P, Inc.	•			_		N/A
				Spike		%		% Rec.		QC
Standar	S .		Dil.	Amount	Result	Rec		Limit		Batch
LCS	2-Fluorophenol (mg/L)		1	80	41.43	52		8 - 73		QC021
LCS	Phenol-d5 (mg/L)		1	80	31.23	39		8 - 62		QC021
LCS	Nitrobenzene-d5 (mg/L)		1	80	61.27	77		44 - 109		QC021
LCS	2-Fluorobiphenyl (mg/L)		1	80	62.41	78		45 - 109		QC021
LCS	2,4,6-Tribromophenol (mg/L)		1	80	50.91	64		39 - 132		QC021:
LCS	Terphenyl-d14 (mg/L)		i	80	53.35	67		46 - 121		QC021:
LCSD	Phenol (mg/L)	< 0.005	1	80	48.336	60	13	-	0 - 20	QC021
LCSD	2-Chlorophenol (mg/L)	< 0.005	1	80	60.657	76	2	-	0 - 20	QC0215
LCSD	1,4-Dichlorobenzene (mg/L)	< 0.005	1	80	48.954	61	8	-	0 - 20	QC0215
LCSD	n-Nitrosodi-n-propylamine (mg/L)	< 0.005	1	80	68.858	86	1	-	0 - 20	QC0215
LCSD		< 0.005	1	80	62.606	78	16	-	0 - 20	QC0215
LCSD	, ,	< 0.005	1	80	74.540	93	3	-	0 - 20	QC0215
LCSD	• • • • •	< 0.005	1	80	72.203	90	0	_	0 - 20	QC0215
LCSD	• • •	<0.005	1	80	32.636	41	12	-		-
								-	0 - 20	QC0215
LCSD		<0.005	1	80	60.618	76	1	-	0 - 20	QC0215
	Pentachlorophenol (mg/L)	< 0.005	1	80	62.094	78	5	-	0 - 20	QC0215
LCSD	Pyrene (mg/L)	< 0.005	1	80	55.216	69	3	-	0 - 20	QC0215
Can do	d Sumanta		Dil	Spike	Dogult	%		% Rec.		QC
Standar LCSD	2		Dil. 1	Amount 80	Result 45.06	Rec 56		Limit		Batch
LCSD	2-Fluorophenol (mg/L) Phenol-d5 (mg/L)		1	80	41.37	52		8 - 73 8 - 62		QC021:
LCSD	Nitrobenzene-d5 (mg/L)		1	80	60.53	76		44 - 109		QC021: QC021:
LCSD	2-Fluorobiphenyl (mg/L)		1	80	61.30	77		45 - 109		QC021:
LCSD	2,4,6-Tribromophenol (mg/L)		1	80	52.50	66		39 - 132		QC021:
LCSD	Terphenyl-d14 (mg/L)		1	80	51.22	64		46 - 121		QC021:
				Spike	Matrix					
		Blank		Amount	Spike	%		% Rec.	RPD	QC
	Param	Result	Dil.	Added	Result	Rec.	RPD	Limit	Limit	Batch #
LCS	Dissolved Calcium (mg/L)	<.50	1	1000	974	97		75 - 125	-	QC0210
LCS	Dissolved Magnesium (mg/L)	<.50	1	1000	908	91		75 - 125	-	QC0210
LCS	Dissolved Potassium (mg/L)	<.50	1	1000	959	96		75 - 125	_	QC0210
LCS	Dissolved Sodium (mg/L)	<.50	1	1000	941	94		75 - 125	-	QC0210
LCSD	Dissolved Calcium (mg/L)	<.50	1	1000	966	97	1	-	0 - 20	QC0210
	Dissolved Magnesium (mg/L)	<.50	1	1000	914	91	1	-	0 - 20	QC0210
LCSD	, , ,	<.50	1	1000	958	96	0	-	0 - 20	QC0210
	• •	<.50		1000	941	94		-		-
rcsp	Dissolved Sodium (mg/L)	\.30	1	1000	941	94	0	-	0 - 20	QC0210
				Spike	Matrix				***************************************	
	_	Blank	· ·	Amount	Spike	%		% Rec.	RPD	QC
	Param	Result	Dil.	Added	Result	Rec.	RPD	Limit	Limit	Batch
	Total Mercury (mg/L)	< 0.0002	ì	0.001	0.00117	117		80 - 120	-	QC021
LCS	(8-)									

Report Date: 4/25/00	O	rder ID N	Iumber	: A00041	206			Page	Number	: 17 of 20
1459	W	ood Gro	up ESI	P, Inc.						N/A
Param		Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS CL (mg/L)	*	<0.5	1	12.5	11.25	90		80 - 120	-	QC02099
LCS Fluoride (mg/L)	*	< 0.2	1	2.5	2.44	98		80 - 120	-	QC02099
LCS Sulfate (mg/L) * CL - Blank spikes used. * Electrical Plants griften and	*	<0.5	1	12.5	11.36	91		80 - 120	-	QC02099
* Fluoride - Blank spikes used.* Sulfate - Blank spikes used.									•	
LCSD CL (mg/L)	*	<0.5	1	12.5	11.48	92	2	-	0 - 20	QC02099
LCSD Fluoride (mg/L)	*	<0.2	1	2.5	2.45	98	0	-	0 - 20	QC02099
LCSD Sulfate (mg/L) * CL - Blank spikes used. * Fluoride - Blank spikes used. * Sulfate - Blank spikes used.	*	<0.5	1	12.5	11.35	91	0	-	0 - 20	QC02099
Param		Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS Total Copper (mg/L)		<0.01	1	2	1.94	97		75 - 125		QC02147
LCS Total Lead (mg/L)		< 0.005	1	2	1.95	98		75 - 125 75 - 125	-	QC02147 QC02147
LCS Total Zinc (mg/L)		<0.005	1	2	1.87	94		75 - 125	-	QC02147 QC02147

0 - 20 QC02147

0 - 20 QC02147

0 - 20 QC02147

< 0.01

< 0.005

< 0.005

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LCSD Total Copper (mg/L)

LCSD Total Lead (mg/L)

LCSD Total Zinc (mg/L)

Report Date:

1459

4/25/00

Order ID Number: A00041206

Wood Group ESP, Inc.

Page Number: 18 of 20

3 of 20 N/A

Standard	Param I	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch
CCV 1	Vinyl Chloride (µg/L)		100	103	103	80 - 120	4/16/00	QC02108
CCV I	1,1-Dichloroethene (µg/L)		100	99	99	80 - 120	4/16/00	QC02108
CCV 1	Chloroform (µg/L)		100	95	95	80 - 120	4/16/00	QC02108
CCV 1	1,2-Dichloropropane (µg/L)		100	98	98	80 - 120	4/16/00	QC02108
CCV 1	Toluene (µg/L)		100	98	98	80 - 120	4/16/00	QC02108
CCV 1	Chlorobenzene (µg/L)		100	99	99	80 - 120	4/16/00	QC02108
CCV 1	Ethylbenzene (µg/L)		100	99	99	80 - 120	4/16/00	QC02108
CCV 1	Dibromofluoromethane (µg/L)		50	48.53	97	80 - 120	4/16/00	QC02108
CCV 1	Toluene-d8 (µg/L)		50	48.62	97	80 - 120	4/16/00	QC02108
CCV 1	4-Bromofluorobenzene (μg/L)		50	51.27	103	80 - 120	4/16/00	QC02108
Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch
CCV 1	Phenol (mg/L)		60	59.73	100	5 - 57	4/17/00	QC02150
CCV 1	1,4-Dichlorobenzene (mg/L)		60	59.21	99	25 - 94	4/17/00	QC02150
CCV 1	2-Nitrophenol (mg/L)		60	59.38	99	80 - 120	4/17/00	QC02150
CCV 1	2,4-Dichlorophenol (mg/L)		60	56.84	95	80 - 120	4/17/00	QC02150
CCV 1	Hexachlorobutadiene (mg/L)		60	58.79	98	80 - 120	4/17/00	QC02150
CCV 1	4-Chloro-3-methylphenol (mg/L)		60	55.06	92	40 - 126	4/17/00	QC02150
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.12	99	80 - 120	4/17/00	QC02150
CCV 1	Acenaphthene (mg/L)		60	56.74	95	47 - 118	4/17/00	QC02150
CCV 1	Diphenylamine (mg/L)		60	58.00	97	80 - 120	4/17/00	QC02150
CCV 1	Pentachlorophenol (mg/L)		60	59.80	100	21 - 131	4/17/00	QC02150
CCV 1	Fluoranthene (mg/L)		60	60.62	101	80 - 120	4/17/00	QC02150
CCV 1	Di-n-octylphthalate (mg/L)		60	55.47	92	80 - 120	4/17/00	QC02150
CCV 1	Benzo(a)pyrene (mg/L)		60	58.50	98	80 - 120	4/17/00	QC02150
CCV 1	2-Fluorophenol (mg/L)		60	58.29	97	8 - 73	4/17/00	QC02150
CCV 1	Phenol-d5 (mg/L)		60	56.97	95	8 - 62	4/17/00	QC02150
CCV 1	Nitrobenzene-d5 (mg/L)		60	57.36	96	44 - 109	4/17/00	QC02150
CCV 1	2-Fluorobiphenyl (mg/L)		60	59.08	98	45 - 109	4/17/00	QC02150
CCV 1	2,4,6-Tribromophenol (mg/L)		60	49.62	83	39 - 132	4/17/00	QC02150
CCV 1	Terphenyl-d14 (mg/L)		60	60.13	100	46 - 121	4/17/00	QC02150
Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch
ICV	Hydroxide Alkalinity (mg/L as CaCo3)	······	0	<1.0	0	80 - 120	4/17/00	QC02142
ICV	Carbonate Alkalinity (mg/L as CaCo3)		0	222	0	80 - 120	4/17/00	QC02142
ICV	Bicarbonate Alkalinity (mg/L as CaCo3))	0	6	0	80 - 120	4/17/00	QC02142
ICV	Total Alkalinity (mg/L as CaCo3)		236	228	97	80 - 120	4/17/00	QC02142

Report Date: 4/25/00

1459

Order ID Number: A00041206

Wood Group ESP, Inc.

Page Number: 19 of 20

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	_	T-1	CCVs TRUE	CCVs Found	CCVs Percent	Percent Recovery	Date Analyzed	QC Batch
Standard	Param	Flag	Conc.	Conc.	Recovery	Limits 80 - 120	-	
CCV 1	Hydroxide Alkalinity (mg/L as CaCo3			<1.0	0		4/17/00	QC02142
CCV 1	Carbonate Alkalinity (mg/L as CaCo3		0	202	0	80 - 120	4/17/00	QC02142
CCV 1	Bicarbonate Alkalinity (mg/L as CaCo	33)	0 236	27 229	0 97	80 - 120	4/17/00	QC02142
CCV 1	Total Alkalinity (mg/L as CaCo3)		230	229	91	80 - 120	4/17/00	QC02142
			CCVs	CCVs	CCVs	Percent	_	
			TRUE	Found	Percent	Recovery	Date	QC Batch
Standard	Param	Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
ICV	Dissolved Calcium (mg/L)		20	19.6	98	75 - 125	4/17/00	QC02109
ICV	Dissolved Magnesium (mg/L)		20	19.6	98	75 - 125	4/17/00	QC02109
ICV	Dissolved Potassium (mg/L)		20	19.6	98	75 - 125	4/17/00	QC02109
ICV	Dissolved Sodium (mg/L)		20	19.9	99	75 - 125	4/17/00	QC02109
CCV 1	Dissolved Calcium (mg/L)		20	19.1	96	75 - 125	4/17/00	QC02109
CCV 1	Dissolved Magnesium (mg/L)		20	19.1	96	75 - 125	4/17/00	QC02109
CCV 1	Dissolved Potassium (mg/L)		20	19.0	95	75 - 125	4/17/00	QC02109
CCV 1	Dissolved Sodium (mg/L)	~ .	20	19.5	98	75 - 125	4/17/00	QC02109
			CCVs TRUE	CCVs Found	CCVs Percent	Percent Recovery	Date	QC Batch
Standard	Param	Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
ICV	Total Mercury (mg/L)		0.001	0.00110	110	80 - 120	4/19/00	QC02187
CCV 1	Total Mercury (mg/L)		0.001	0.00091	91	80 - 120	4/19/00	QC02187
			CCVs TRUE	CCVs Found	CCVs Percent	Percent Recovery	Date	QC Batch
Standard	Param	Flag	Conc.	Conc.	Recovery	Limits	Analyzed	#
ICV	CL (mg/L)		12.5	11.04	88	80 - 120	4/12/00	QC02099
ICV	Fluoride (mg/L)		2.5	2.42	97	80 - 120	4/12/00	QC02099
ICV	Nitrate-N (mg/L)		5	4.59	92	80 - 120	4/12/00	QC02099
ICV	Sulfate (mg/L)		12.5	11.20	90	80 - 120	4/12/00	QC02099
CCV 1	CL (mg/L)		12.5	10.78	86	80 - 120	4/12/00	QC02099
CCV 1	Fluoride (mg/L)		2.5	2.30	92	80 - 120	4/12/00	QC02099
CCV 1	Nitrate-N (mg/L)		5	4.51	90	80 - 120	4/12/00	QC02099
CCV 1	Sulfate (mg/L)		12.5	11.06	88	80 - 120	4/12/00	QC02099
	D		CCVs TRUE	CCVs Found	CCVs Percent	Percent Recovery	Date Analyzed	QC Batch
Standard	Param	Flag	Conc.	Conc.	Recovery	Limits		
ICV	pH (s.u.)		7	7.0	100	80 - 120	4/12/00	QC02112
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Report Date:

1459

4/25/00

Order ID Number: A00041206

Wood Group ESP, Inc.

Page Number: 20 of 20

N/A

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch
ICV	Total Dissolved Solids (mg/L)		1000	988	99	80 - 120	4/14/00	QC02126
CCV 1	Total Dissolved Solids (mg/L)		1000	992	99	80 - 120	4/14/00	QC02126
Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch
ICV	Total Arsenic (mg/L)		1	1.01	101	75 - 125	4/18/00	QC02147
ICV	Total Barium (mg/L)		1	1.02	102	75 - 125	4/18/00	QC02147
ICV	Total Cadmium (mg/L)		1	1.02	102	75 - 125	4/18/00	QC02147
ICV	Total Chromium (mg/L)		1	1.02	102	75 - 125	4/18/00	QC02147
ICV	Total Lead (mg/L)		1	1.01	101	75 - 125	4/18/00	QC02147
ICV	Total Selenium (mg/L)		1	0.96	96	75 - 125	4/18/00	QC02147
ICV	Total Silver (mg/L)		0.2	0.199	100	75 - 125	4/18/00	QC02147
CCV 1	Total Arsenic (mg/L)		1	0.99	99	75 - 125	4/18/00	QC02147
CCV 1	Total Barium (mg/L)		1	1.02	102	75 - 125	4/18/00	QC02147
CCV 1	Total Cadmium (mg/L)		İ	1.01	101	75 - 125	4/18/00	QC02147
CCV 1	Total Chromium (mg/L)		1	1.02	102	75 - 125	4/18/00	QC02147
CCV 1	Total Lead (mg/L)		1	1.00	100	75 - 125	4/18/00	QC02147
CCV 1	Total Selenium (mg/L)		1	0.96	96	75 - 125	4/18/00	QC02147
CCV 1	Total Silver (mg/L)		0.2	.200	100	75 - 125	4/18/00	QC02147

Cation-Anion Balance Sheet

Sample #	144335	J 75	Date:	4/25/00			
Calcium Magnesium Sodium Potassium	Cations ppm 73 19 44 3.5	meq/L 3.64 1.563 1.9 0.089	351 914	Total Catio 7.20974 i			
Alkalinity Sulfate Chloride Nitrate as N Fluoride	Anions ppm 193 100 44 5 1.8	meq/L 3. 2.0 1.241 0.356 0.0947	24 95	Total Anio 7.63494 i			
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