

GW - 028

712 Waste

YEAR(S):

2008 - Present

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Monday, August 02, 2010 1:14 PM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Subject: DAF analysis
Attachments: 1007530 DAF Final.pdf

Hope and Carl

Attached is the Quarterly DAF Analysis that we are required to submit to both of you. This sample was taken on July 15, 2010.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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29-Jul-2010

Aaron Strange
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 748-6733
Fax: (575) 746-5421

Re: DAF

Work Order: **1007530**

Dear Aaron,

ALS Laboratory Group received 1 sample on 16-Jul-2010 08:40 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 26.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

JayLynn F Thibault

Electronically approved by: Tiffany Van

JayLynn F Thibault
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Standiford Rd, Suite 200 Houston, Texas 77036-4338 | PHONE (281) 530-6664 | FAX (281) 530-5887

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ALS Laboratory Group

Date: 29-Jul-10

Client: Navajo Refining Company
Project: DAF
Work Order: 1007530

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1007530-01	DAF	Solid		7/15/2010 08:36	7/16/2010 08:40	☐

ALS Laboratory Group

Date: 29-Jul-10

Client: Navajo Refining Company

Project: DAF

Work Order: 1007530

Case Narrative

Batch 44770, TCLP Semivolatiles, Sample 1007530-01A: Surrogate marginally low; re-analysis confirms

ALS Laboratory Group

Date: 29-Jul-10

Client: Navajo Refining Company

Project: DAF

Work Order: 1007530

Sample ID: DAF

Lab ID: 1007530-01

Collection Date: 7/15/2010 08:36 AM

Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY						
Mercury	ND		SW7470 0.000200	mg/L	Prep Date: 7/23/2010 1	Analyst: ALR 7/23/2010 04:21 PM
TCLP METALS						
Arsenic	ND		SW1311/6020 0.0500	mg/L	Prep Date: 7/23/2010 10	Analyst: SKS 7/23/2010 06:02 PM
Barium	0.0991		0.0500	mg/L	10	7/23/2010 06:02 PM
Cadmium	ND		0.0500	mg/L	10	7/23/2010 06:02 PM
Chromium	ND		0.0500	mg/L	10	7/23/2010 06:02 PM
Lead	ND		0.0500	mg/L	10	7/23/2010 06:02 PM
Selenium	0.0764		0.0500	mg/L	10	7/23/2010 06:02 PM
Silver	ND		0.0500	mg/L	10	7/23/2010 06:02 PM
TCLP SEMIVOLATILES						
2,4,5-Trichlorophenol	ND		SW1311/8270 5.0	µg/L	Prep Date: 7/23/2010 1	Analyst: KMB 7/23/2010 07:24 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	7/23/2010 07:24 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	7/23/2010 07:24 PM
Cresols, Total	ND		15	µg/L	1	7/23/2010 07:24 PM
Hexachlorobenzene	ND		5.0	µg/L	1	7/23/2010 07:24 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	7/23/2010 07:24 PM
Hexachloroethane	ND		5.0	µg/L	1	7/23/2010 07:24 PM
Nitrobenzene	ND		5.0	µg/L	1	7/23/2010 07:24 PM
Pentachlorophenol	ND		5.0	µg/L	1	7/23/2010 07:24 PM
Pyridine	ND		5.0	µg/L	1	7/23/2010 07:24 PM
Surr: 2,4,6-Tribromophenol	70.1		42-124	%REC	1	7/23/2010 07:24 PM
Surr: 2-Fluorobiphenyl	40.6	S	48-120	%REC	1	7/23/2010 07:24 PM
Surr: 2-Fluorophenol	34.1		20-120	%REC	1	7/23/2010 07:24 PM
Surr: 4-Terphenyl-d14	68.1		51-135	%REC	1	7/23/2010 07:24 PM
Surr: Nitrobenzene-d5	42.1		41-120	%REC	1	7/23/2010 07:24 PM
Surr: Phenol-d6	42.7		20-120	%REC	1	7/23/2010 07:24 PM
TCLP VOLATILES						
1,1-Dichloroethene	ND		SW1311/8260B 100	µg/L	Prep Date: 7/22/2010 20	Analyst: PC 7/27/2010 12:11 AM
1,2-Dichloroethane	ND		100	µg/L	20	7/27/2010 12:11 AM
1,4-Dichlorobenzene	ND		100	µg/L	20	7/27/2010 12:11 AM
2-Butanone	ND		200	µg/L	20	7/27/2010 12:11 AM
Benzene	ND		100	µg/L	20	7/27/2010 12:11 AM
Carbon tetrachloride	ND		100	µg/L	20	7/27/2010 12:11 AM
Chlorobenzene	ND		100	µg/L	20	7/27/2010 12:11 AM
Chloroform	ND		100	µg/L	20	7/27/2010 12:11 AM
Tetrachloroethene	ND		100	µg/L	20	7/27/2010 12:11 AM
Trichloroethene	ND		100	µg/L	20	7/27/2010 12:11 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 29-Jul-10

Client: Navajo Refining Company

Project: DAF

Work Order: 1007530

Sample ID: DAF

Lab ID: 1007530-01

Collection Date: 7/15/2010 08:36 AM

Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Vinyl chloride	ND		100	µg/L	20	7/27/2010 12:11 AM
Surr: 1,2-Dichloroethane-d4	99.6		70-125	%REC	20	7/27/2010 12:11 AM
Surr: 4-Bromofluorobenzene	95.1		72-125	%REC	20	7/27/2010 12:11 AM
Surr: Dibromofluoromethane	102		71-125	%REC	20	7/27/2010 12:11 AM
Surr: Toluene-d8	100		75-125	%REC	20	7/27/2010 12:11 AM
REACTIVE CYANIDE			SW-846			Analyst: HN
Reactive Cyanide	ND		40.0	mg/Kg	1	7/23/2010 12:00 PM
REACTIVE SULFIDE			SW-846			Analyst: HN
Reactive Sulfide	ND		40.0	mg/Kg	1	7/23/2010 12:00 PM
IGNITABILITY			SW1030			Analyst: IAB
Ignitability, Solid	Negative			no unit	1	7/26/2010 02:00 PM
PH			SW9045B			Analyst: TDW
pH	7.25		0.100	pH Units	1	7/22/2010 04:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 29-Jul-10

Client: Navajo Refining Company
Work Order: 1007530
Project: DAF

QC BATCH REPORT

Batch ID: **44766** Instrument ID **Mercury** Method: **SW7470**

MBLK Sample ID: **GBLKT1-072210-44766** Units: **mg/L** Analysis Date: **7/23/2010 04:05 PM**

Client ID: Run ID: **MERCURY_100723A** SeqNo: **2038850** Prep Date: **7/23/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

MBLK Sample ID: **GBLKW3-072310-44766** Units: **mg/L** Analysis Date: **7/23/2010 04:07 PM**

Client ID: Run ID: **MERCURY_100723A** SeqNo: **2038851** Prep Date: **7/23/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: **GLCSW3-072310-44766** Units: **mg/L** Analysis Date: **7/23/2010 04:09 PM**

Client ID: Run ID: **MERCURY_100723A** SeqNo: **2038852** Prep Date: **7/23/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00422	0.00020	0.005	0	84.4	80-120	0			

MS Sample ID: **1007527-01BMS** Units: **mg/L** Analysis Date: **7/23/2010 04:15 PM**

Client ID: Run ID: **MERCURY_100723A** SeqNo: **2038860** Prep Date: **7/23/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0039	0.00020	0.005	0.000008	77.8	75-125	0			

MSD Sample ID: **1007527-01BMSD** Units: **mg/L** Analysis Date: **7/23/2010 04:17 PM**

Client ID: Run ID: **MERCURY_100723A** SeqNo: **2038861** Prep Date: **7/23/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00272	0.00020	0.005	0.000008	54.2	75-125	0.0039	35.6	20	SR

DUP Sample ID: **1007527-01BDUP** Units: **mg/L** Analysis Date: **7/23/2010 04:13 PM**

Client ID: Run ID: **MERCURY_100723A** SeqNo: **2038857** Prep Date: **7/23/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	0.000008	0	20	

The following samples were analyzed in this batch:

1007530-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007530
 Project: DAF

QC BATCH REPORT

Batch ID: 44776 Instrument ID ICPMS04 Method: SW1311/6020

MBLK Sample ID: MBLKT1-072210-44776 Units: mg/L Analysis Date: 7/23/2010 03:28 PM

Client ID: Run ID: ICPMS04_100723A SeqNo: 2038952 Prep Date: 7/23/2010 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

MBLK Sample ID: MBLKW4-072310-44776 Units: mg/L Analysis Date: 7/23/2010 03:51 PM

Client ID: Run ID: ICPMS04_100723A SeqNo: 2038959 Prep Date: 7/23/2010 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

LCS Sample ID: MLCSW4-072310-44776 Units: mg/L Analysis Date: 7/23/2010 03:46 PM

Client ID: Run ID: ICPMS04_100723A SeqNo: 2038957 Prep Date: 7/23/2010 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.5238	0.050	0.5	0	105	80-120	0			
Barium	0.4885	0.050	0.5	0	97.7	80-120	0			
Cadmium	0.5069	0.050	0.5	0	101	80-120	0			
Chromium	0.5617	0.050	0.5	0	112	80-120	0			
Lead	0.478	0.050	0.5	0	95.6	80-120	0			
Selenium	0.5293	0.050	0.5	0	106	80-120	0			
Silver	0.5354	0.050	0.5	0	107	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007530
 Project: DAF

QC BATCH REPORT

Batch ID: 44776 Instrument ID ICPMS04 Method: SW1311/6020

MS Sample ID: 1007527-02BMS Units: mg/L Analysis Date: 7/23/2010 04:14 PM

Client ID: Run ID: ICPMS04_100723A SeqNo: 2038966 Prep Date: 7/23/2010 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.8148	0.050	0.5	0.2961	104	75-125	0			
Barium	1.853	0.050	0.5	1.345	102	75-125	0			
Cadmium	0.4874	0.050	0.5	0.001819	97.1	75-125	0			
Chromium	1.15	0.050	0.5	0.6147	107	75-125	0			
Lead	0.4619	0.050	0.5	0.00302	91.8	75-125	0			
Selenium	0.5276	0.050	0.5	0.008412	104	75-125	0			
Silver	0.4942	0.050	0.5	-0.000898	99	75-125	0			

MSD Sample ID: 1007527-02BMSD Units: mg/L Analysis Date: 7/23/2010 04:20 PM

Client ID: Run ID: ICPMS04_100723A SeqNo: 2038967 Prep Date: 7/23/2010 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.8079	0.050	0.5	0.2961	102	75-125	0.8148	0.855	25	
Barium	2.062	0.050	0.5	1.345	143	75-125	1.853	10.7	25	S
Cadmium	0.5413	0.050	0.5	0.001819	108	75-125	0.4874	10.5	25	
Chromium	1.152	0.050	0.5	0.6147	107	75-125	1.15	0.178	25	
Lead	0.523	0.050	0.5	0.00302	104	75-125	0.4619	12.4	25	
Selenium	0.5222	0.050	0.5	0.008412	103	75-125	0.5276	1.04	25	
Silver	0.5403	0.050	0.5	-0.000898	108	75-125	0.4942	8.92	25	

DUP Sample ID: 1007527-02BDUP Units: mg/L Analysis Date: 7/23/2010 04:08 PM

Client ID: Run ID: ICPMS04_100723A SeqNo: 2038965 Prep Date: 7/23/2010 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2932	0.050	0	0	0	0-0	0.2961	0.996	25	
Barium	1.379	0.050	0	0	0	0-0	1.345	2.52	25	
Cadmium	ND	0.050	0	0	0	0-0	0.001819	0	25	
Chromium	0.6068	0.050	0	0	0	0-0	0.6147	1.3	25	
Lead	ND	0.050	0	0	0	0-0	0.00302	0	25	
Selenium	ND	0.050	0	0	0	0-0	0.008412	0	25	
Silver	ND	0.050	0	0	0	0-0	-0.000898	0	25	

The following samples were analyzed in this batch:

1007530-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007530
 Project: DAF

QC BATCH REPORT

Batch ID: 44770 Instrument ID SV-5 Method: SW1311/8270

MBLK Sample ID: SBLKT1-100723-44770 Units: µg/L Analysis Date: 7/23/2010 04:22 PM

Client ID: Run ID: SV-5_100723C SeqNo: 2040240 Prep Date: 7/23/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Cresols, Total	ND	15								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	5.0								
Hexachloroethane	ND	5.0								
Nitrobenzene	ND	5.0								
Pentachlorophenol	ND	5.0								
Pyridine	ND	5.0								
Surr: 2,4,6-Tribromophenol	42.47	5.0	100	0	42.5	42-124	0			
Surr: 2-Fluorobiphenyl	67.48	5.0	100	0	67.5	48-120	0			
Surr: 2-Fluorophenol	54.18	5.0	100	0	54.2	20-120	0			
Surr: 4-Terphenyl-d14	71.63	5.0	100	0	71.6	51-135	0			
Surr: Nitrobenzene-d5	64.4	5.0	100	0	64.4	41-120	0			
Surr: Phenol-d6	58.84	5.0	100	0	58.8	20-120	0			

LCS Sample ID: SLCST1-100723-44770 Units: µg/L Analysis Date: 7/23/2010 04:45 PM

Client ID: Run ID: SV-5_100723C SeqNo: 2040242 Prep Date: 7/23/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	80.58	5.0	100	0	80.6	52-115	0			
2,4,6-Trichlorophenol	77.13	5.0	100	0	77.1	53-115	0			
2,4-Dinitrotoluene	43.51	5.0	50	0	87	56-115	0			
Cresols, Total	214.2	15	250	0	85.7	35-115	0			
Hexachlorobenzene	37.3	5.0	50	0	74.6	54-115	0			
Hexachlorobutadiene	38.15	5.0	50	0	76.3	51-115	0			
Hexachloroethane	39.22	5.0	50	0	78.4	54-115	0			
Nitrobenzene	38.91	5.0	50	0	77.8	40-124	0			
Pentachlorophenol	47.15	5.0	100	0	47.1	45-125	0			
Pyridine	23.43	5.0	50	0	46.9	34-115	0			
Surr: 2,4,6-Tribromophenol	82.31	5.0	100	0	82.3	42-124	0			
Surr: 2-Fluorobiphenyl	72.31	5.0	100	0	72.3	48-120	0			
Surr: 2-Fluorophenol	71.93	5.0	100	0	71.9	20-120	0			
Surr: 4-Terphenyl-d14	76.53	5.0	100	0	76.5	51-135	0			
Surr: Nitrobenzene-d5	73.35	5.0	100	0	73.4	41-120	0			
Surr: Phenol-d6	75.06	5.0	100	0	75.1	20-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007530
 Project: DAF

QC BATCH REPORT

Batch ID: **44770** Instrument ID **SV-5** Method: **SW1311/8270**

LCSD		Sample ID: SLCSDT1-100723-44770				Units: µg/L		Analysis Date: 7/23/2010 05:08 PM		
Client ID:		Run ID: SV-5_100723C				SeqNo: 2040244		Prep Date: 7/23/2010		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	76.28	5.0	100	0	76.3	52-115	80.58	5.47	25	
2,4,6-Trichlorophenol	72.66	5.0	100	0	72.7	53-115	77.13	5.96	25	
2,4-Dinitrotoluene	45.17	5.0	50	0	90.3	56-115	43.51	3.74	25	
Cresols, Total	201	15	250	0	80.4	35-115	214.2	6.36	25	
Hexachlorobenzene	36.26	5.0	50	0	72.5	54-115	37.3	2.82	25	
Hexachlorobutadiene	35.09	5.0	50	0	70.2	51-115	38.15	8.36	25	
Hexachloroethane	39.01	5.0	50	0	78	54-115	39.22	0.552	25	
Nitrobenzene	38.23	5.0	50	0	76.5	40-124	38.91	1.75	25	
Pentachlorophenol	64.34	5.0	100	0	64.3	45-125	47.15	30.8	25	R
Pyridine	24.53	5.0	50	0	49.1	34-115	23.43	4.61	25	
Surr: 2,4,6-Tribromophenol	77.52	5.0	100	0	77.5	42-124	82.31	5.99	25	
Surr: 2-Fluorobiphenyl	67.36	5.0	100	0	67.4	48-120	72.31	7.1	25	
Surr: 2-Fluorophenol	67.35	5.0	100	0	67.3	20-120	71.93	6.59	25	
Surr: 4-Terphenyl-d14	71.84	5.0	100	0	71.8	51-135	76.53	6.31	25	
Surr: Nitrobenzene-d5	71.65	5.0	100	0	71.7	41-120	73.35	2.34	25	
Surr: Phenol-d6	70.56	5.0	100	0	70.6	20-120	75.06	6.18	25	

The following samples were analyzed in this batch:

1007530-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007530
 Project: DAF

QC BATCH REPORT

Batch ID: R94716 Instrument ID VOA2 Method: SW1311/8260B

MBLK Sample ID: VBLKW-072510-R94716 Units: µg/L Analysis Date: 7/26/2010 05:05 PM

Client ID: Run ID: VOA2_100726C SeqNo: 2041858 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachloroethene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	48.93	5.0	50	0	97.9	70-125	0			
Surr: 4-Bromofluorobenzene	47.61	5.0	50	0	95.2	72.4-125	0			
Surr: Dibromofluoromethane	48.32	5.0	50	0	96.6	71.2-125	0			
Surr: Toluene-d8	48.79	5.0	50	0	97.6	75-125	0			

LCS Sample ID: VLCSW-072610-R94716 Units: µg/L Analysis Date: 7/26/2010 03:53 PM

Client ID: Run ID: VOA2_100726C SeqNo: 2041857 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	46.16	5.0	50	0	92.3	73-124	0			
1,2-Dichloroethane	47.38	5.0	50	0	94.8	76-120	0			
1,4-Dichlorobenzene	46.62	5.0	50	0	93.2	70-130	0			
2-Butanone	90.36	10	100	0	90.4	70-130	0			
Benzene	48.64	5.0	50	0	97.3	70-128	0			
Carbon tetrachloride	48.08	5.0	50	0	96.2	70-130	0			
Chlorobenzene	48.11	5.0	50	0	96.2	72-127	0			
Chloroform	48.49	5.0	50	0	97	70-130	0			
Tetrachloroethene	48.55	5.0	50	0	97.1	70-130	0			
Trichloroethene	48.62	5.0	50	0	97.2	72-129	0			
Vinyl chloride	45.71	5.0	50	0	91.4	70-130	0			
Surr: 1,2-Dichloroethane-d4	47.86	5.0	50	0	95.7	70-125	0			
Surr: 4-Bromofluorobenzene	51.01	5.0	50	0	102	72-125	0			
Surr: Dibromofluoromethane	49.4	5.0	50	0	98.8	71-125	0			
Surr: Toluene-d8	50.69	5.0	50	0	101	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 1007530
 Project: DAF

QC BATCH REPORT

Batch ID: R94716 Instrument ID VOA2 Method: SW1311/8260B

MS		Sample ID: 1007760-01AMS			Units: µg/L		Analysis Date: 7/26/2010 06:40 PM			
Client ID:		Run ID: VOA2_100726C			SeqNo: 2041860		Prep Date:		DF: 500	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19350	2,500	25000	0	77.4	73-124	0			
1,2-Dichloroethane	23000	2,500	25000	0	92	76-120	0			
1,4-Dichlorobenzene	21320	2,500	25000	0	85.3	70-130	0			
2-Butanone	41240	5,000	50000	0	82.5	70-130	0			
Benzene	25290	2,500	25000	2552	90.9	70-128	0			
Carbon tetrachloride	21050	2,500	25000	977.1	80.3	70-130	0			
Chlorobenzene	26650	2,500	25000	4413	88.9	72-127	0			
Chloroform	25600	2,500	25000	2556	92.2	70-130	0			
Tetrachloroethene	21030	2,500	25000	0	84.1	70-130	0			
Trichloroethene	21930	2,500	25000	0	87.7	72-129	0			
Vinyl chloride	19310	2,500	25000	0	77.3	70-130	0			
Surr: 1,2-Dichloroethane-d4	23220	2,500	25000	0	92.9	70-125	0			
Surr: 4-Bromofluorobenzene	24470	2,500	25000	0	97.9	72-125	0			
Surr: Dibromofluoromethane	24090	2,500	25000	0	96.4	71-125	0			
Surr: Toluene-d8	24170	2,500	25000	0	96.7	75-125	0			

MSD		Sample ID: 1007760-01AMSD			Units: µg/L		Analysis Date: 7/26/2010 07:03 PM			
Client ID:		Run ID: VOA2_100726C			SeqNo: 2041861		Prep Date:		DF: 500	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19830	2,500	25000	0	79.3	73-124	19350	2.45	20	
1,2-Dichloroethane	24220	2,500	25000	0	96.9	76-120	23000	5.17	20	
1,4-Dichlorobenzene	22830	2,500	25000	0	91.3	70-130	21320	6.82	20	
2-Butanone	44420	5,000	50000	0	88.8	70-130	41240	7.43	20	
Benzene	26200	2,500	25000	2552	94.6	70-128	25290	3.54	20	
Carbon tetrachloride	21510	2,500	25000	977.1	82.1	70-130	21050	2.19	20	
Chlorobenzene	27910	2,500	25000	4413	94	72-127	26650	4.61	20	
Chloroform	26820	2,500	25000	2556	97	70-130	25600	4.65	20	
Tetrachloroethene	20970	2,500	25000	0	83.9	70-130	21030	0.27	20	
Trichloroethene	22480	2,500	25000	0	89.9	72-129	21930	2.48	20	
Vinyl chloride	20150	2,500	25000	0	80.6	70-130	19310	4.22	20	
Surr: 1,2-Dichloroethane-d4	24050	2,500	25000	0	96.2	70-125	23220	3.52	20	
Surr: 4-Bromofluorobenzene	25580	2,500	25000	0	102	72-125	24470	4.43	20	
Surr: Dibromofluoromethane	25280	2,500	25000	0	101	71-125	24090	4.83	20	
Surr: Toluene-d8	25250	2,500	25000	0	101	75-125	24170	4.39	20	

The following samples were analyzed in this batch: 1007530-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007530
Project: DAF

QC BATCH REPORT

Batch ID: **R94506** Instrument ID **WetChem** Method: **SW9045B**

LCS Sample ID: **WLCSW1-072210-R94506** Units: **pH Units** Analysis Date: **7/22/2010 04:00 PM**

Client ID: Run ID: **WETCHEM_100722I** SeqNo: **2037426** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.07	0.10	6	0	101	90-110	0			

DUP Sample ID: **1007648-01adup** Units: **pH Units** Analysis Date: **7/22/2010 04:00 PM**

Client ID: Run ID: **WETCHEM_100722I** SeqNo: **2037475** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.72	0.10	0	0	0	0-0	4.68	0.851	20	

The following samples were analyzed in this batch:

1007530-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 1007530
Project: DAF

QC BATCH REPORT

Batch ID: **R94648** Instrument ID **WetChem** Method: **SW1030**

DUP Sample ID: **1007527-01CDUP** Units: **no unit** Analysis Date: **7/26/2010 02:00 PM**

Client ID: Run ID: **WETCHEM_100726G** SeqNo: **2040336** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability, Solid	ND	0	0	0	0		0	0		

The following samples were analyzed in this batch:

1007530-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

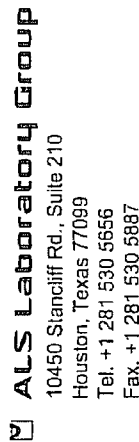
Client: Navajo Refining Company
Project: DAF
WorkOrder: 1007530

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
no unit	
pH Units	



Chain of Custody Form

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Page 1 of 1

[illegible]

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

WO.# 107530

PRIORITY OVERNIGHT

FRI

Emp# 347544 23:56 15JUL10

Deliver By:

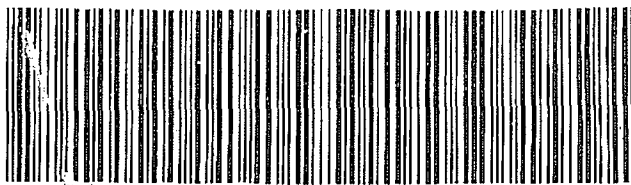
TRK# 4347 1018 3204 FORM 0201

IAH

16JUL10

77099 -TX-US

43 JGQA



ALS Laboratory Group

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTOMER

Date: 7-15-10
Name: Aqfoo St
Company: Navajo

ODDY SEAL

Time: 1615

Navajo
Refining Co.

Seal Broken By:

Date: 7/16/10

ALS Laboratory Group

Sample Receipt Checklist

Client Name: **NAVAJO REFINING**

Date/Time Received: **16-Jul-10 08:40**

Work Order: **1007530**

Received by: **RDH**

Checklist completed by Raymond N Gamba 16-Jul-10
eSignature Date

Reviewed by: _____
eSignature Date

Matrices: **Solid**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
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 ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>1.3c</u> <u>002</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

ALS Laboratory Group

Date: 26-Jul-10

Client: ALS Laboratory Group

Project: 1007530

Work Order: 1007409

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1007409-01	1007530-01B	Solid		7/15/2010 08:36	7/20/2010 10:15	☐

Client: ALS Laboratory Group
Project: 1007530
WorkOrder: 1007409

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram

ALS Laboratory Group

Date: 26-Jul-10

Client: ALS Laboratory Group

Project: 1007530

Work Order: 1007409

Sample ID: 1007530-01B

Lab ID: 1007409-01

Collection Date: 7/15/2010 08:36 AM

Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE			SW7.3.3.2			Analyst: EE
Cyanide, Reactive	ND		40.0	mg/Kg	1	7/23/2010 12:00 PM
SULFIDE, REACTIVE			SW7.3.4.2			Analyst: EE
Sulfide, Reactive	ND		40.0	mg/Kg	1	7/23/2010 12:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Laboratory Group

Date: 26-Jul-10

Client: ALS Laboratory Group
Work Order: 1007409
Project: 1007530

QC BATCH REPORT

Batch ID: **R79323** Instrument ID **WETCHEM** Method: **SW7.3.3.2**

MBLK Sample ID: **WBLKW1-072210-R79323** Units: **mg/Kg** Analysis Date: **7/22/2010 12:00 PM**

Client ID: Run ID: **WETCHEM_100722D** SeqNo: **1371150** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	40								

LCS Sample ID: **WLCSW1-072210-R79323** Units: **mg/Kg** Analysis Date: **7/22/2010 12:00 PM**

Client ID: Run ID: **WETCHEM_100722D** SeqNo: **1371151** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	0	94	75-125	0			

LCSD Sample ID: **WLCSDW1-072210-R79323** Units: **mg/Kg** Analysis Date: **7/22/2010 12:00 PM**

Client ID: Run ID: **WETCHEM_100722D** SeqNo: **1371159** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	249.6	40	250	0	99.8	75-125	234.9	6.06	35	

MS Sample ID: **1007475-01A MS** Units: **mg/Kg** Analysis Date: **7/22/2010 12:00 PM**

Client ID: Run ID: **WETCHEM_100722D** SeqNo: **1371157** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	14.68	88.1	50-150	0			

MSD Sample ID: **1007475-01A MSD** Units: **mg/Kg** Analysis Date: **7/22/2010 12:00 PM**

Client ID: Run ID: **WETCHEM_100722D** SeqNo: **1371158** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	249.6	40	250	14.68	94	50-150	234.9	6.06	35	

The following samples were analyzed in this batch:

1007409-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Laboratory Group
Work Order: 1007409
Project: 1007530

QC BATCH REPORT

Batch ID: **R79325** Instrument ID **WETCHEM** Method: **SW7.3.4.2**

MBLK Sample ID: **WBLKW1-072210-R79325** Units: **mg/Kg** Analysis Date: **7/22/2010 12:00 PM**

Client ID: Run ID: **WETCHEM_100722F** SeqNo: **1371160** Prep Date: DF: **1**

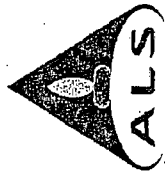
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch:

1007409-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Lab # 1007409



Subcontractor:
ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424

CHAIN-OF-CUSTODY RECORD

TEL: (616) 399-6070
FAX: (616) 399-6185
Acct #:

Date: 16-Jul-10
COC ID: 9095
Due Date: 27-Jul-10

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	10-2118773	Project Name	1007530	A	Reactive Cyanide (SW-846)
Work Order		Project Number		B	Reactive Sulfide (SW-846)
Company Name	ALS Group USA, Corp.	Bill To Company	ALS Group USA, Corp.	C	
Send Report To	JayLynn F Thibault	Inv Attn	Accounts Payable	D	
Address	10450 Standcliff Rd, Suite 210	Address	10450 Standcliff Rd, Suite 210	E	
City/State/Zip	Houston, Texas 77099-4338	City/State/Zip	Houston, Texas 77099-4338	F	
Phone	(281) 530-5656	Phone	(281) 530-5656	G	
Fax	(281) 530-5887	Fax	(281) 530-5887	H	
eMail Address	jaylynn.thibault@alsglobal.com	eMail CC	glenda.ramos@alsglobal.com	I	
Sample ID	1007530-01B (DAF)	Matrix	Solid	J	
		Collection Date 24hr	7/15/2010 8:36		
		Bottle	(1) 4OZGNEAT		

Comments:

Please analyze for Reactive Cyanide and Reactive Sulfide. Report is due on 7/27/10. Please send report to Jaylynn Thibault, jaylynn.thibault@alsglobal.com, and CC: results to Glenda Ramos, glenda.ramos@alsglobal.com

Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
<i>[Signature]</i>	7/19/10 - FedEx	<i>[Signature]</i>	7/20/10 1015	4.2°C	510
Relinquished by:	Date/Time	Received by:	Date/Time		

ALS Laboratory Group

Sample Receipt Checklist

Client Name: ALS - HOUSTON

Date/Time Received: 20-Jul-10 10:15

Work Order: 1007409

Received by: DS

Checklist completed by Diane Shaw
eSignature

20-Jul-10
Date

Reviewed by: Ann Preston
eSignature

20-Jul-10
Date

Matrices: Solid

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
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 ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>4.2 c</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

ORIGIN ID: JG0A (281) 530-5656
SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF
SUITE 210
HOUSTON, TX 77099
UNITED STATES US

SHIP DATE: 19JUL10
ACTWGT: 15.9 LB
CAD: 300130/CAFE2453

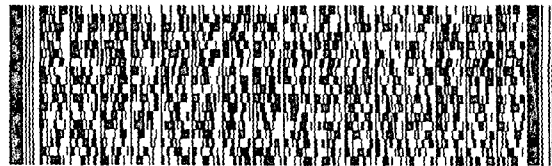
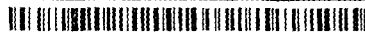
BILL SENDER

TO LES ARNOLD
ALS LABORATORY GROUP
3352 128TH AVE.

HOLLAND MI 49424

(281) 530-5656

REF: SUB CONTRACT



FedEx
Express



J0928911302223

TRK#
0201

4340 2160 4010

TUE - 20JUL A4
PRIORITY OVERNIGHT

NI GRR

49424
MI-US
GRR

Part # 156148-434 NRT V3 12.09



Chavez, Carl J, EMNRD

From: Strange, Aaron [aaron.strange@hollycorp.com]
Sent: Wednesday, November 04, 2009 9:38 AM
To: Kim Flowers; Chavez, Carl J, EMNRD
Cc: Moore, Darrell
Subject: Request for waste approval
Attachments: Sour Water Tank Soil.pdf

Kim,

Please see the attachment requesting the approval of Sour Water Tank Soil from the Artesia Plant.

Thanks,

Aaron Strange
Environmental Technician, Senior

Environmental Department
Navajo Refining Co, LLC
Artesia NM
Off: (575) 746-5468
Cell: (575) 703-5057

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, may contain information that is privileged, proprietary and/or confidential. If you received this message in error, please advise the sender immediately by reply e-mail and do not retain any paper or electronic copies of this message or any attachments. Unless expressly stated, nothing contained in this message should be construed as a digital or electronic signature or a commitment to a binding agreement.

This inbound email has been scanned for malicious software and transmitted safely to you using Webroot Email Security.

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL**

COMPANY / GENERATOR: Navajo Lea Refining

ADDRESS: 7406 S Main Lovington NM

GENERATING SITE: Lovington Plant

COUNTY Lea STATE NM
TYPE OF WASTE: Excavated Soil/Contaminated Soil

ESTIMATED VOLUME: 900 yds

GENERATING PROCESS: Excavation in North Plant for
new Sour Water Tank foundation.

REMARKS: _____

NMOCDFACILITY: CRI

TRUCKING COMPANY: S Brothers

As a condition of acceptance for disposal, I hereby 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 "hazardous
or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C
and D, has not been added or mixed with the waste so as to make the resultant
mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections
2613.

AGENT: Aaron Strange
SIGNATURE

NAME: Aaron Strange
PRINTED

ADDRESS: 501 E Main Artesia NM 88210

DATE: 11-4-09

District I
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
District IV
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

Form C-138
Revised March 12, 2007

*Surface Waste Management Facility
Operator
and Generator shall maintain and make this
documentation available for Division
inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

Navajo Refining Co.

2. Originating Site:

Artesia Plant

3. Location of Material (Street Address, City, State or ULSTR):

501 E Main Artesia NM

4. Source and Description of Waste:

Excavated soil for new Sour Water Tank.

Estimated Volume 900 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Aaron Strange, representative or authorized agent for Navajo Refining Co. do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:

S Brothers

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #:

Address of Facility:

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: _____

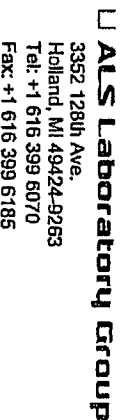
TITLE: _____

DATE: _____

SIGNATURE: _____

TELEPHONE NO.: _____

Surface Waste Management Facility Authorized Agent



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ALS Laboratory Group

Date: 26-Feb-09

Client: Navajo Refining Company

Project: Gary Davis Tank Ring

Work Order: 0902391

Sample ID: Sour Water Tank Ring

Lab ID: 0902391-01

Collection Date: 2/13/2009 02:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TEXAS TPH						
			TX1005		Prep Date: 2/18/2009	Analyst: KMB
nC6 to nC12	ND		500	mg/Kg	10	2/26/2009 11:45 AM
>nC12 to nC28	7,800		500	mg/Kg	10	2/26/2009 11:45 AM
>nC28 to nC35	1,200		500	mg/Kg	10	2/26/2009 11:45 AM
Total Petroleum Hydrocarbon	9,000		500	mg/Kg	10	2/26/2009 11:45 AM
Surr: 2-Fluorobiphenyl	121		70-130	%REC	10	2/26/2009 11:45 AM
Surr: Trifluoromethyl benzene	101		70-130	%REC	10	2/26/2009 11:45 AM
TCLP MERCURY						
			SW7470		Prep Date: 2/19/2009	Analyst: JCJ
Mercury	ND		0.000200	mg/L	1	2/19/2009 06:30 PM
TCLP METALS						
			SW1311/6020		Prep Date: 2/19/2009	Analyst: ALR
Arsenic	ND		0.0500	mg/L	10	2/20/2009 12:18 AM
Barium	0.402		0.0500	mg/L	10	2/20/2009 12:18 AM
Cadmium	ND		0.0500	mg/L	10	2/20/2009 12:18 AM
Chromium	ND		0.0500	mg/L	10	2/20/2009 12:18 AM
Lead	ND		0.0500	mg/L	10	2/20/2009 12:18 AM
Selenium	ND		0.0500	mg/L	10	2/20/2009 12:18 AM
Silver	ND		0.0500	mg/L	10	2/20/2009 12:18 AM
TCLP SEMIVOLATILES						
			SW1311/8270		Prep Date: 2/18/2009	Analyst: ACN
2,4,5-Trichlorophenol	ND		5.0	µg/L	1	2/19/2009 11:48 AM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	2/19/2009 11:48 AM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	2/19/2009 11:48 AM
Cresols, Total	18		15	µg/L	1	2/19/2009 11:48 AM
Hexachlorobenzene	ND		5.0	µg/L	1	2/19/2009 11:48 AM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/19/2009 11:48 AM
Hexachloroethane	ND		5.0	µg/L	1	2/19/2009 11:48 AM
Nitrobenzene	ND		5.0	µg/L	1	2/19/2009 11:48 AM
Pentachlorophenol	ND		5.0	µg/L	1	2/19/2009 11:48 AM
Pyridine	ND		5.0	µg/L	1	2/19/2009 11:48 AM
Surr: 2,4,6-Tribromophenol	69.0		42-124	%REC	1	2/19/2009 11:48 AM
Surr: 2-Fluorobiphenyl	52.3		48-120	%REC	1	2/19/2009 11:48 AM
Surr: 2-Fluorophenol	42.3		20-120	%REC	1	2/19/2009 11:48 AM
Surr: 4-Terphenyl-d14	64.5		51-135	%REC	1	2/19/2009 11:48 AM
Surr: Nitrobenzene-d5	42.8		41-120	%REC	1	2/19/2009 11:48 AM
Surr: Phenol-d6	50.7		20-120	%REC	1	2/19/2009 11:48 AM
TCLP VOLATILES						
			SW1311/8260B		Prep Date: 2/18/2009	Analyst: PC
1,1-Dichloroethene	ND		100	µg/L	20	2/19/2009 06:39 PM
1,2-Dichloroethane	ND		100	µg/L	20	2/19/2009 06:39 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	2/19/2009 06:39 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

ALS Laboratory Group

Date: 26-Feb-09

Client: Navajo Refining Company
Project: Gary Davis Tank Ring
Sample ID: Sour Water Tank Ring
Collection Date: 2/13/2009 02:42 PM

Work Order: 0902391
Lab ID: 0902391-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	ND		200	µg/L	20	2/19/2009 06:39 PM
Benzene	ND		100	µg/L	20	2/19/2009 06:39 PM
Carbon tetrachloride	ND		100	µg/L	20	2/19/2009 06:39 PM
Chlorobenzene	ND		100	µg/L	20	2/19/2009 06:39 PM
Chloroform	ND		100	µg/L	20	2/19/2009 06:39 PM
Tetrachloroethene	ND		100	µg/L	20	2/19/2009 06:39 PM
Trichloroethene	ND		100	µg/L	20	2/19/2009 06:39 PM
Vinyl chloride	ND		100	µg/L	20	2/19/2009 06:39 PM
Surr: 1,2-Dichloroethane-d4	105		70-125	%REC	20	2/19/2009 06:39 PM
Surr: 4-Bromofluorobenzene	97.0		72-125	%REC	20	2/19/2009 06:39 PM
Surr: Dibromofluoromethane	102		71-125	%REC	20	2/19/2009 06:39 PM
Surr: Toluene-d8	98.1		75-125	%REC	20	2/19/2009 06:39 PM
REACTIVE CYANIDE			SW-846			Analyst: HN
Reactive Cyanide	ND		40.0	mg/Kg	1	2/20/2009
REACTIVE SULFIDE			SW-846			Analyst: HN
Reactive Sulfide	ND		40.0	mg/Kg	1	2/20/2009
IGNITABILITY			SW1030			Analyst: TDW
Ignitability, Solid	Negative			no unit	1	2/26/2009 11:00 AM
PH			SW9045B			Analyst: TDW
pH	8.76		0.100	pH Units	1	2/23/2009 04:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 a - Not accredited

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 n - Not offered for accreditation

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Monday, November 02, 2009 9:27 AM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Subject: October DAF
Attachments: DAF October 2009.pdf

Hope and Carl

Here are the DAF results for October 2009. If you have any questions, let me know.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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ALS Laboratory Group

Date: 26-Oct-09

Client: Navajo Refining Company

Project: Disposal

Work Order: 0910434

Sample ID: DAF

Lab ID: 0910434-04

Collection Date: 10/13/2009 02:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY						
Mercury	ND		SW7470 0.000200	mg/L	1	Prep Date: 10/19/2009 Analyst: JCJ 10/19/2009 02:45 PM
TCLP METALS						
Arsenic	ND		SW1311/6020 0.0500	mg/L	10	Prep Date: 10/19/2009 Analyst: SKS 10/20/2009 07:44 PM
Barium	0.315		0.0500	mg/L	10	10/20/2009 07:44 PM
Cadmium	ND		0.0500	mg/L	10	10/20/2009 07:44 PM
Chromium	ND		0.0500	mg/L	10	10/20/2009 07:44 PM
Lead	ND		0.0500	mg/L	10	10/20/2009 07:44 PM
Selenium	0.0540		0.0500	mg/L	10	10/20/2009 07:44 PM
Silver	ND		0.0500	mg/L	10	10/20/2009 07:44 PM
TCLP SEMIVOLATILES						
2,4,5-Trichlorophenol	ND		SW1311/8270 5.0	µg/L	1	Prep Date: 10/20/2009 Analyst: ACN 10/20/2009 05:45 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	10/20/2009 05:45 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	10/20/2009 05:45 PM
Cresols, Total	27		15	µg/L	1	10/20/2009 05:45 PM
Hexachlorobenzene	ND		5.0	µg/L	1	10/20/2009 05:45 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	10/20/2009 05:45 PM
Hexachloroethane	ND		5.0	µg/L	1	10/20/2009 05:45 PM
Nitrobenzene	ND		5.0	µg/L	1	10/20/2009 05:45 PM
Pentachlorophenol	ND		5.0	µg/L	1	10/20/2009 05:45 PM
Pyridine	ND		5.0	µg/L	1	10/20/2009 05:45 PM
Surr: 2,4,6-Tribromophenol	63.1		42-124	%REC	1	10/20/2009 05:45 PM
Surr: 2-Fluorobiphenyl	71.8		48-120	%REC	1	10/20/2009 05:45 PM
Surr: 2-Fluorophenol	59.1		20-120	%REC	1	10/20/2009 05:45 PM
Surr: 4-Terphenyl-d14	70.5		51-135	%REC	1	10/20/2009 05:45 PM
Surr: Nitrobenzene-d5	57.9		41-120	%REC	1	10/20/2009 05:45 PM
Surr: Phenol-d6	70.5		20-120	%REC	1	10/20/2009 05:45 PM
TCLP VOLATILES						
1,1-Dichloroethene	ND		SW1311/8260B 100	µg/L	20	Prep Date: 10/16/2009 Analyst: PC 10/20/2009 12:16 AM
1,2-Dichloroethane	ND		100	µg/L	20	10/20/2009 12:16 AM
1,4-Dichlorobenzene	ND		100	µg/L	20	10/20/2009 12:16 AM
2-Butanone	ND		200	µg/L	20	10/20/2009 12:16 AM
Benzene	ND		100	µg/L	20	10/20/2009 12:16 AM
Carbon tetrachloride	ND		100	µg/L	20	10/20/2009 12:16 AM
Chlorobenzene	ND		100	µg/L	20	10/20/2009 12:16 AM
Chloroform	ND		100	µg/L	20	10/20/2009 12:16 AM
Tetrachloroethene	ND		100	µg/L	20	10/20/2009 12:16 AM
Trichloroethene	ND		100	µg/L	20	10/20/2009 12:16 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 26-Oct-09

Client: Navajo Refining Company

Project: Disposal

Work Order: 0910434

Sample ID: DAF

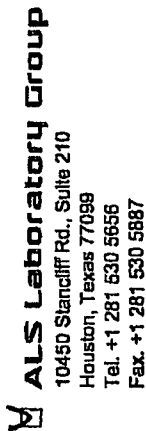
Lab ID: 0910434-04

Collection Date: 10/13/2009 02:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Vinyl chloride	ND		100	µg/L	20	10/20/2009 12:16 AM
Surr: 1,2-Dichloroethane-d4	100		70-125	%REC	20	10/20/2009 12:16 AM
Surr: 4-Bromofluorobenzene	98.1		72-125	%REC	20	10/20/2009 12:16 AM
Surr: Dibromofluoromethane	96.3		71-125	%REC	20	10/20/2009 12:16 AM
Surr: Toluene-d8	99.2		75-125	%REC	20	10/20/2009 12:16 AM
REACTIVE CYANIDE			SW-846			Analyst: HN
Reactive Cyanide	ND		40.0	mg/Kg	1	10/19/2009
REACTIVE SULFIDE			SW-846			Analyst: HN
Reactive Sulfide	ND		40.0	mg/Kg	1	10/19/2009
IGNITABILITY			SW1030			Analyst: TDW
Ignitability, Solid	Negative			no unit	1	10/23/2009 12:00 PM
PH			SW9045B			Analyst: TDW
pH	6.89		0.100	pH Units	1	10/16/2009 02:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.



ALS Laboratory Group

**3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185**

Page 1 of 1[illegible]

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

12. Unless otherwise agreed in a formal contract, services provided by A.L.S. Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

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Chavez, Carl J, EMNRD

From: Monzeglio, Hope, NMENV
Sent: Wednesday, April 29, 2009 1:13 PM
To: Jones, Brad A., EMNRD; Chavez, Carl J, EMNRD
Subject: FW: DAF Analysis
Attachments: DAF Final April 2009.pdf

Brad and Carl

Just an FYI, NMED has Navajo sample the DAF quarterly. Here are the most recent results.

Hope

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Monday, April 27, 2009 8:22 AM
To: Monzeglio, Hope, NMENV
Subject: DAF Analysis

Hope

Enclosed are the latest results for our DAF analysis that is required every three months. Hard copy to follow.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

This inbound email has been scanned by the MessageLabs Email Security System.

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

22-Apr-09

Aaron Strange
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (575) 746-5468
Fax: (575) 746-5421

Re: DAF

Work Order : **0904232**

Dear Aaron,

ALS Laboratory Group received 1 sample on 4/9/2009 09:35 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 25.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

JayLynn F Thibault

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault
Project Manager



Certificate No: T104704231-08-TX

ALS Group USA, Corp.

Part of the **ALS Laboratory Group**

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887

www.alsglobal.com www.elabi.com

A Campbell Brothers Limited Company

ALS Laboratory Group

Date: 22-Apr-09

Client: Navajo Refining Company
Project: DAF
Work Order: 0904232

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0904232-01	DAF	Sludge		4/8/2009 09:05	4/9/2009 09:35	☐

ALS Laboratory Group

Date: 22-Apr-09

Client: Navajo Refining Company
Project: DAF
Work Order: 0904232

Case Narrative

Batch R75948 1311_VOC (Sample 0904441-01)MS/MSD Several compounds exceed Rec and RPD limits on MS/MSD due to background.

ALS Laboratory Group

Date: 22-Apr-09

Client: Navajo Refining Company

Project: DAF

Sample ID: DAF

Collection Date: 4/8/2009 09:05 AM

Work Order: 0904232

Lab ID: 0904232-01

Matrix: SLUDGE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY						
Mercury	ND		SW7470 0.000200	mg/L	Prep Date: 4/16/2009 1	Analyst: JCJ 4/16/2009 06:05 PM
TCLP METALS						
Arsenic	ND		SW1311/6020 0.0500	mg/L	Prep Date: 4/14/2009 10	Analyst: ALR 4/15/2009 08:14 PM
Barium	0.298		0.0500	mg/L	10	4/15/2009 08:14 PM
Cadmium	ND		0.0500	mg/L	10	4/15/2009 08:14 PM
Chromium	ND		0.0500	mg/L	10	4/15/2009 08:14 PM
Lead	ND		0.0500	mg/L	10	4/15/2009 08:14 PM
Selenium	0.0654		0.0500	mg/L	10	4/15/2009 08:14 PM
Silver	ND		0.0500	mg/L	10	4/15/2009 08:14 PM
TCLP SEMIVOLATILES						
2,4,5-Trichlorophenol	ND		SW1311/8270 5.0	µg/L	Prep Date: 4/13/2009 1	Analyst: ACN 4/13/2009 09:41 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	4/13/2009 09:41 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	4/13/2009 09:41 PM
Cresols, Total	19		15	µg/L	1	4/13/2009 09:41 PM
Hexachlorobenzene	ND		5.0	µg/L	1	4/13/2009 09:41 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	4/13/2009 09:41 PM
Hexachloroethane	ND		5.0	µg/L	1	4/13/2009 09:41 PM
Nitrobenzene	ND		5.0	µg/L	1	4/13/2009 09:41 PM
Pentachlorophenol	ND		5.0	µg/L	1	4/13/2009 09:41 PM
Pyridine	ND		5.0	µg/L	1	4/13/2009 09:41 PM
Surr: 2,4,6-Tribromophenol	65.5		42-124	%REC	1	4/13/2009 09:41 PM
Surr: 2-Fluorobiphenyl	71.8		48-120	%REC	1	4/13/2009 09:41 PM
Surr: 2-Fluorophenol	65.9		20-120	%REC	1	4/13/2009 09:41 PM
Surr: 4-Terphenyl-d14	69.3		51-135	%REC	1	4/13/2009 09:41 PM
Surr: Nitrobenzene-d5	69.3		41-120	%REC	1	4/13/2009 09:41 PM
Surr: Phenol-d6	62.9		20-120	%REC	1	4/13/2009 09:41 PM
TCLP VOLATILES						
1,1-Dichloroethene	ND		SW1311/8260B 250	µg/L	Prep Date: 4/10/2009 50	Analyst: PC 4/20/2009 07:09 PM
1,2-Dichloroethane	ND		250	µg/L	50	4/20/2009 07:09 PM
1,4-Dichlorobenzene	ND		250	µg/L	50	4/20/2009 07:09 PM
2-Butanone	1,400		500	µg/L	50	4/20/2009 07:09 PM
Benzene	ND		250	µg/L	50	4/20/2009 07:09 PM
Carbon tetrachloride	ND		250	µg/L	50	4/20/2009 07:09 PM
Chlorobenzene	ND		250	µg/L	50	4/20/2009 07:09 PM
Chloroform	ND		250	µg/L	50	4/20/2009 07:09 PM
Tetrachloroethene	ND		250	µg/L	50	4/20/2009 07:09 PM
Trichloroethene	ND		250	µg/L	50	4/20/2009 07:09 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 22-Apr-09

Client: Navajo Refining Company

Project: DAF

Work Order: 0904232

Sample ID: DAF

Lab ID: 0904232-01

Collection Date: 4/8/2009 09:05 AM

Matrix: SLUDGE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Vinyl chloride	ND		250	µg/L	50	4/20/2009 07:09 PM
Surr: 1,2-Dichloroethane-d4	114		70-125	%REC	50	4/20/2009 07:09 PM
Surr: 4-Bromofluorobenzene	96.6		72-125	%REC	50	4/20/2009 07:09 PM
Surr: Dibromofluoromethane	104		71-125	%REC	50	4/20/2009 07:09 PM
Surr: Toluene-d8	96.2		75-125	%REC	50	4/20/2009 07:09 PM
REACTIVE CYANIDE			SW-846			Analyst: HN
Reactive Cyanide	ND		40.0	mg/Kg	1	4/15/2009
REACTIVE SULFIDE			SW-846			Analyst: HN
Reactive Sulfide	ND		40.0	mg/Kg	1	4/15/2009
IGNITABILITY			SW1030			Analyst: TDW
Ignitability, Solid	Negative			no unit	1	4/21/2009 03:30 PM
PH			SW9045B			Analyst: TDW
pH	6.60		0.100	pH Units	1	4/20/2009 12:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 22-Apr-09

Client: Navajo Refining Company
Work Order: 0904232
Project: DAF

QC BATCH REPORT

Batch ID: 35538 Instrument ID ICPMS02 Method: SW1311/6020

MBLK Sample ID: MBLKT1-041309-35538 Units: mg/L Analysis Date: 4/15/2009 05:44 PM

Client ID: Run ID: ICPMS02_090414A SeqNo: 1648312 Prep Date: 4/14/2009 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	0.007393	0.050								J
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	0.004047	0.050								J
Selenium	ND	0.050								
Silver	ND	0.050								

MBLK Sample ID: MBLKW2-041409-35538 Units: mg/L Analysis Date: 4/15/2009 05:51 PM

Client ID: Run ID: ICPMS02_090414A SeqNo: 1648313 Prep Date: 4/14/2009 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

LCS Sample ID: MLCSW2-041409-35538 Units: mg/L Analysis Date: 4/15/2009 05:57 PM

Client ID: Run ID: ICPMS02_090414A SeqNo: 1648314 Prep Date: 4/14/2009 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2586	0.050	0.25	0	103	80-120	0			
Barium	0.2584	0.050	0.25	0	103	80-120	0			
Cadmium	0.2471	0.050	0.25	0	98.8	80-120	0			
Chromium	0.2454	0.050	0.25	0	98.2	80-120	0			
Lead	0.2518	0.050	0.25	0	101	80-120	0			
Selenium	0.2454	0.050	0.25	0	98.2	80-120	0			
Silver	0.2575	0.050	0.25	0	103	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 0904232
 Project: DAF

QC BATCH REPORT

Batch ID: 35538 Instrument ID ICPMS02 Method: SW1311/6020

MS Sample ID: 0904201-04AMS Units: mg/L Analysis Date: 4/15/2009 06:30 PM

Client ID: Run ID: ICPMS02_090414A SeqNo: 1648318 Prep Date: 4/14/2009 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.259	0.050	0.25	0.003209	102	75-125	0			
Barium	0.8367	0.050	0.25	0.5738	105	75-125	0			
Cadmium	0.2543	0.050	0.25	0.002676	101	75-125	0			
Chromium	0.2353	0.050	0.25	0.003548	92.7	75-125	0			
Lead	0.2537	0.050	0.25	0.004939	99.5	75-125	0			
Selenium	0.2872	0.050	0.25	0.007681	112	75-125	0			
Silver	0.2464	0.050	0.25	0.001349	98	75-125	0			

MSD Sample ID: 0904201-04AMSD Units: mg/L Analysis Date: 4/15/2009 06:37 PM

Client ID: Run ID: ICPMS02_090414A SeqNo: 1648321 Prep Date: 4/14/2009 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2603	0.050	0.25	0.003209	103	75-125	0.259	0.501	25	
Barium	0.8245	0.050	0.25	0.5738	100	75-125	0.8367	1.47	25	
Cadmium	0.2501	0.050	0.25	0.002676	99	75-125	0.2543	1.67	25	
Chromium	0.243	0.050	0.25	0.003548	95.8	75-125	0.2353	3.22	25	
Lead	0.2498	0.050	0.25	0.004939	97.9	75-125	0.2537	1.55	25	
Selenium	0.237	0.050	0.25	0.007681	91.7	75-125	0.2872	19.2	25	
Silver	0.2388	0.050	0.25	0.001349	95	75-125	0.2464	3.13	25	

DUP Sample ID: 0904201-04ADUP Units: mg/L Analysis Date: 4/15/2009 06:10 PM

Client ID: Run ID: ICPMS02_090414A SeqNo: 1648316 Prep Date: 4/14/2009 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050	0	0	0	0-0	0.003209	0	25	
Barium	0.555	0.050	0	0	0	0-0	0.5738	3.33	25	
Cadmium	ND	0.050	0	0	0	0-0	0.002676	0	25	
Chromium	ND	0.050	0	0	0	0-0	0.003548	0	25	
Lead	0.004981	0.050	0	0	0	0-0	0.004939	0	25	J
Selenium	ND	0.050	0	0	0	0-0	0.007681	0	25	
Silver	ND	0.050	0	0	0	0-0	0.001349	0	25	

The following samples were analyzed in this batch: 0904232-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 0904232
 Project: DAF

QC BATCH REPORT

Batch ID: 35581 Instrument ID Mercury Method: SW7470

MBLK Sample ID: GBLKW6-041609-35581 Units: mg/L Analysis Date: 4/16/2009 05:32 PM

Client ID: Run ID: MERCURY_090416A SeqNo: 1649488 Prep Date: 4/16/2009 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

MBLK Sample ID: GBLKT2-041509-35581 Units: mg/L Analysis Date: 4/16/2009 05:36 PM

Client ID: Run ID: MERCURY_090416A SeqNo: 1649492 Prep Date: 4/16/2009 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: GLCSW6-041609-35581 Units: mg/L Analysis Date: 4/16/2009 05:34 PM

Client ID: Run ID: MERCURY_090416A SeqNo: 1649490 Prep Date: 4/16/2009 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00499	0.00020	0.005	0	99.8	80-120	0			

MS Sample ID: 0904201-03AMS Units: mg/L Analysis Date: 4/16/2009 05:42 PM

Client ID: Run ID: MERCURY_090416A SeqNo: 1649498 Prep Date: 4/16/2009 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00518	0.00020	0.005	0.000041	103	75-125	0			

MSD Sample ID: 0904201-03AMSD Units: mg/L Analysis Date: 4/16/2009 05:44 PM

Client ID: Run ID: MERCURY_090416A SeqNo: 1649501 Prep Date: 4/16/2009 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00505	0.00020	0.005	0.000041	100	75-125	0.00518	2.54	20	

DUP Sample ID: 0904201-03ADUP Units: mg/L Analysis Date: 4/16/2009 05:40 PM

Client ID: Run ID: MERCURY_090416A SeqNo: 1649496 Prep Date: 4/16/2009 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	0.000041	0	20	

The following samples were analyzed in this batch: 0904232-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 0904232
 Project: DAF

QC BATCH REPORT

Batch ID: 35516 Instrument ID SV-3 Method: SW1311/8270

MBLK Sample ID: SBLKT2-090413-35516 Units: µg/L Analysis Date: 4/13/2009 04:20 PM

Client ID: Run ID: SV-3_090413B SeqNo: 1646186 Prep Date: 4/13/2009 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Cresols, Total	ND	15								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	5.0								
Hexachloroethane	ND	5.0								
Nitrobenzene	ND	5.0								
Pentachlorophenol	ND	5.0								
Pyridine	ND	5.0								
Surr: 2,4,6-Tribromophenol	83.31	5.0	100	0	83.3	42-124	0			
Surr: 2-Fluorobiphenyl	83.66	5.0	100	0	83.7	48-120	0			
Surr: 2-Fluorophenol	77.4	5.0	100	0	77.4	20-120	0			
Surr: 4-Terphenyl-d14	82.03	5.0	100	0	82	51-135	0			
Surr: Nitrobenzene-d5	77.88	5.0	100	0	77.9	41-120	0			
Surr: Phenol-d6	76.86	5.0	100	0	76.9	20-120	0			

LCS Sample ID: SLCST2-090413-35516 Units: µg/L Analysis Date: 4/13/2009 04:44 PM

Client ID: Run ID: SV-3_090413B SeqNo: 1646187 Prep Date: 4/13/2009 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	84.96	5.0	100	0	85	52-115	0			
2,4,6-Trichlorophenol	88.47	5.0	100	0	88.5	53-115	0			
2,4-Dinitrotoluene	44.31	5.0	50	0	88.6	56-115	0			
Cresols, Total	183.7	15	250	0	73.5	35-115	0			
Hexachlorobenzene	42.6	5.0	50	0	85.2	54-115	0			
Hexachlorobutadiene	46.55	5.0	50	0	93.1	51-115	0			
Hexachloroethane	39.42	5.0	50	0	78.8	54-115	0			
Nitrobenzene	45.59	5.0	50	0	91.2	40-124	0			
Pentachlorophenol	84.08	5.0	100	0	84.1	45-125	0			
Pyridine	34.48	5.0	50	0	69	34-115	0			
Surr: 2,4,6-Tribromophenol	85.41	5.0	100	0	85.4	42-124	0			
Surr: 2-Fluorobiphenyl	86.23	5.0	100	0	86.2	48-120	0			
Surr: 2-Fluorophenol	81.04	5.0	100	0	81	20-120	0			
Surr: 4-Terphenyl-d14	79.47	5.0	100	0	79.5	51-135	0			
Surr: Nitrobenzene-d5	84.16	5.0	100	0	84.2	41-120	0			
Surr: Phenol-d6	75.14	5.0	100	0	75.1	20-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 0904232
 Project: DAF

QC BATCH REPORT

Batch ID: 35516 Instrument ID SV-3 Method: SW1311/8270

LCSD Sample ID: SLCSDT2-090413-35516 Units: µg/L Analysis Date: 4/13/2009 05:09 PM

Client ID: Run ID: SV-3_090413B SeqNo: 1646188 Prep Date: 4/13/2009 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	87.08	5.0	100	0	87.1	52-115	84.96	2.46	25	
2,4,6-Trichlorophenol	92.23	5.0	100	0	92.2	53-115	88.47	4.16	25	
2,4-Dinitrotoluene	44.03	5.0	50	0	88.1	56-115	44.31	0.631	25	
Cresols, Total	210.4	15	250	0	84.2	35-115	183.7	13.5	25	
Hexachlorobenzene	45.51	5.0	50	0	91	54-115	42.6	6.62	25	
Hexachlorobutadiene	48.3	5.0	50	0	96.6	51-115	46.55	3.7	25	
Hexachloroethane	46.49	5.0	50	0	93	54-115	39.42	16.5	25	
Nitrobenzene	44.77	5.0	50	0	89.5	40-124	45.59	1.81	25	
Pentachlorophenol	88.13	5.0	100	0	88.1	45-125	84.08	4.7	25	
Pyridine	39.32	5.0	50	0	78.6	34-115	34.48	13.1	25	
Surr: 2,4,6-Tribromophenol	83.65	5.0	100	0	83.6	42-124	85.41	2.09	25	
Surr: 2-Fluorobiphenyl	86.82	5.0	100	0	86.8	48-120	86.23	0.681	25	
Surr: 2-Fluorophenol	89.27	5.0	100	0	89.3	20-120	81.04	9.66	25	
Surr: 4-Terphenyl-d14	80.11	5.0	100	0	80.1	51-135	79.47	0.808	25	
Surr: Nitrobenzene-d5	82	5.0	100	0	82	41-120	84.16	2.59	25	
Surr: Phenol-d6	83.06	5.0	100	0	83.1	20-120	75.14	10	25	

The following samples were analyzed in this batch:

0904232-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 0904232
 Project: DAF

QC BATCH REPORT

Batch ID: R75948 Instrument ID VOA2 Method: SW1311/8260

MBLK Sample ID: VBLKW-042009-R75948 Units: µg/L Analysis Date: 4/20/2009 11:05 AM

Client ID: Run ID: VOA2_090420D SeqNo: 1652413 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachloroethene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	55.66	5.0	50	0	111	70-125	0			
Surr: 4-Bromofluorobenzene	50.1	5.0	50	0	100	72.4-125	0			
Surr: Dibromofluoromethane	51.06	5.0	50	0	102	71.2-125	0			
Surr: Toluene-d8	49.87	5.0	50	0	99.7	75-125	0			

MBLK Sample ID: MBLKV2-041009-R75948 Units: µg/L Analysis Date: 4/20/2009 03:07 PM

Client ID: Run ID: VOA2_090420D SeqNo: 1652417 Prep Date: DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	1097	100	1000	0	110	70-125	0			
Surr: 4-Bromofluorobenzene	979.2	100	1000	0	97.9	72.4-125	0			
Surr: Dibromofluoromethane	1020	100	1000	0	102	71.2-125	0			
Surr: Toluene-d8	971	100	1000	0	97.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 0904232
 Project: DAF

QC BATCH REPORT

Batch ID: R75948 Instrument ID VOA2 Method: SW1311/8260

MBLK Sample ID: MBLKV1-041709-R75948 Units: µg/L Analysis Date: 4/20/2009 01:06 PM
 Client ID: Run ID: VOA2_090420D SeqNo: 1652441 Prep Date: 4/17/2009 DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	1079	100	1000	0	108	70-125	0			
Surr: 4-Bromofluorobenzene	1022	100	1000	0	102	72.4-125	0			
Surr: Dibromofluoromethane	1002	100	1000	0	100	71.2-125	0			
Surr: Toluene-d8	968.5	100	1000	0	96.9	75-125	0			

LCS Sample ID: VLCSW-042009-R75948 Units: µg/L Analysis Date: 4/20/2009 10:16 AM
 Client ID: Run ID: VOA2_090420D SeqNo: 1652412 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	54.29	5.0	50	0	109	73-124	0			
1,2-Dichloroethane	52.15	5.0	50	0	104	76-120	0			
1,4-Dichlorobenzene	44.44	5.0	50	0	88.9	70-130	0			
2-Butanone	101.6	10	100	0	102	70-130	0			
Benzene	48.37	5.0	50	0	96.7	70-128	0			
Carbon tetrachloride	53.25	5.0	50	0	106	70-130	0			
Chlorobenzene	47.07	5.0	50	0	94.1	72-127	0			
Chloroform	49.55	5.0	50	0	99.1	70-130	0			
Tetrachloroethene	49.23	5.0	50	0	98.5	70-130	0			
Trichloroethene	49.17	5.0	50	0	98.3	72-129	0			
Vinyl chloride	47.67	5.0	50	0	95.3	70-130	0			
Surr: 1,2-Dichloroethane-d4	53	5.0	50	0	106	70-125	0			
Surr: 4-Bromofluorobenzene	51.23	5.0	50	0	102	72-125	0			
Surr: Dibromofluoromethane	49.99	5.0	50	0	100	71-125	0			
Surr: Toluene-d8	49.57	5.0	50	0	99.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
 Work Order: 0904232
 Project: DAF

QC BATCH REPORT

Batch ID: R75948 Instrument ID VOA2 Method: SW1311/8260

MS		Sample ID: 0904441-01AMS			Units: µg/L		Analysis Date: 4/20/2009 12:17 PM			
Client ID:		Run ID: VOA2_090420D			SeqNo: 1652415		Prep Date:		DF: 500	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	21700	2,500	25000	0	86.8	73-124	0			
1,2-Dichloroethane	17910	2,500	25000	0	71.6	76-120	0			S
1,4-Dichlorobenzene	20970	2,500	25000	0	83.9	70-130	0			
2-Butanone	21990	5,000	50000	0	44	70-130	0			S
Benzene	36720	2,500	25000	15820	83.6	70-128	0			
Carbon tetrachloride	34590	2,500	25000	10860	94.9	70-130	0			
Chlorobenzene	80500	2,500	25000	63440	68.2	72-127	0			S
Chloroform	36350	2,500	25000	15090	85	70-130	0			
Tetrachloroethene	23450	2,500	25000	0	93.8	70-130	0			
Trichloroethene	22240	2,500	25000	0	89	72-129	0			
Vinyl chloride	17880	2,500	25000	0	71.5	70-130	0			
Surr: 1,2-Dichloroethane-d4	19230	2,500	25000	0	76.9	70-125	0			
Surr: 4-Bromofluorobenzene	23860	2,500	25000	0	95.4	72-125	0			
Surr: Dibromofluoromethane	22780	2,500	25000	0	91.1	71-125	0			
Surr: Toluene-d8	26060	2,500	25000	0	104	75-125	0			

MSD		Sample ID: 0904441-01AMSD			Units: µg/L		Analysis Date: 4/20/2009 12:42 PM			
Client ID:		Run ID: VOA2_090420D			SeqNo: 1652416		Prep Date:		DF: 500	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	23320	2,500	25000	0	93.3	73-124	21700	7.2	20	
1,2-Dichloroethane	24000	2,500	25000	0	96	76-120	17910	29.1	20	R
1,4-Dichlorobenzene	21830	2,500	25000	0	87.3	70-130	20970	4.04	20	
2-Butanone	46800	5,000	50000	0	93.6	70-130	21990	72.1	20	R
Benzene	37410	2,500	25000	15820	86.4	70-128	36720	1.87	20	
Carbon tetrachloride	36050	2,500	25000	10860	101	70-130	34590	4.12	20	
Chlorobenzene	81830	2,500	25000	63440	73.6	72-127	80500	1.64	20	
Chloroform	38120	2,500	25000	15090	92.1	70-130	36350	4.74	20	
Tetrachloroethene	22570	2,500	25000	0	90.3	70-130	23450	3.82	20	
Trichloroethene	22670	2,500	25000	0	90.7	72-129	22240	1.94	20	
Vinyl chloride	19070	2,500	25000	0	76.3	70-130	17880	6.45	20	
Surr: 1,2-Dichloroethane-d4	25590	2,500	25000	0	102	70-125	19230	28.4	20	R
Surr: 4-Bromofluorobenzene	25240	2,500	25000	0	101	72-125	23860	5.65	20	
Surr: Dibromofluoromethane	25220	2,500	25000	0	101	71-125	22780	10.1	20	
Surr: Toluene-d8	24440	2,500	25000	0	97.8	75-125	26060	6.39	20	

The following samples were analyzed in this batch:

0904232-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Navajo Refining Company
Work Order: 0904232
Project: DAF

QC BATCH REPORT

Batch ID: R75890 Instrument ID WetChem Method: SW9045B

LCS Sample ID: WLCSW1-042009-R75890 Units: pH Units Analysis Date: 4/20/2009 12:00 PM

Client ID: Run ID: WETCHEM_090420A SeqNo: 1651632 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.1	0.10	6	0	102	90-110	0			

DUP Sample ID: 0904200-04bdup Units: pH Units Analysis Date: 4/20/2009 12:00 PM

Client ID: Run ID: WETCHEM_090420A SeqNo: 1651647 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.62	0.10	0	0	0	0-0	8.6	0.232	20	

The following samples were analyzed in this batch:

0904232-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

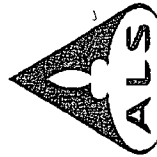
Client: Navajo Refining Company
Project: DAF
WorkOrder: 0904232

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
no unit	
pH Units	



☒ **ALS Laboratory Group**
10450 Standcliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

☐ **ALS Laboratory Group**

3352 128th Ave.
Holland, MI 49424-9263
Tel. +1 616 399 6070
Fax. +1 616 399 6185

Page 1 of 1

Customer Information				Project Information				ALS Project Manager: <u>DAF</u> ALS Work Order #: <u>0904231</u>											
Project Name: <u>DAF</u>				Parameter/Method Request for Analysis															
Project Number:				A				TCLP VOAS											
Bill To Company:				B				TCLP Semi VOAS											
Navajo Refining Company				C				TCLP Metals											
Aaron Strange				D				RCI											
P.O. Box 159				E															
Address:				F															
City/State/Zip:				G															
Artesia, NM 88211				H															
Phone:				I															
(505) 748-3311				J															
Fax:																			
(505) 746-5421																			
E-Mail Address:																			
dgboyer@SESI-NM.com																			
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	DAF	4/8/09	15:05	S	Y	1	X	X	X	X									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Supplier(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Date	Signature	Date	Signature	Level II Std QC	Level III Std QC/Raw Data	Level IV SW34/CLP	Other
4/8/09	Aaron Strange	4/8/09	Fed Ex	☒ 5 Wk Days	☐ 10 Wk Days	☐ 15 Wk Days	☐ 24 Hours
4/8/09	Aaron Strange	4/8/09	DAF	☐ Level II Std QC	☐ Level III Std QC/Raw Data	☐ Level IV SW34/CLP	☐ Other

Relinquished by: Aaron Strange Received by: DAF

Relinquished by: Aaron Strange Received by: DAF

Logged by (Laboratory): DAF Checked by (Laboratory): DAF

Preservative Key: 1-HCl, 2-HNO₃, 3-H₂SO₄, 4-NaOH, 5-Na₂S₂O₃, 6-NaHSO₃, 7-Other, 8-4°C, 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

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ALS Laboratory Group

Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 09-Apr-09 09:35

Work Order: 0904232

Received by: RDH

Checklist completed by Richard Sanchez
eSignature

09-Apr-09
Date

Reviewed by: [Signature]
eSignature

Date 4/10/09

Matrices: soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
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 ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>3.1c</u>		<u>002</u>
Cooler(s)/Kit(s):	<u>971</u>		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

0904282

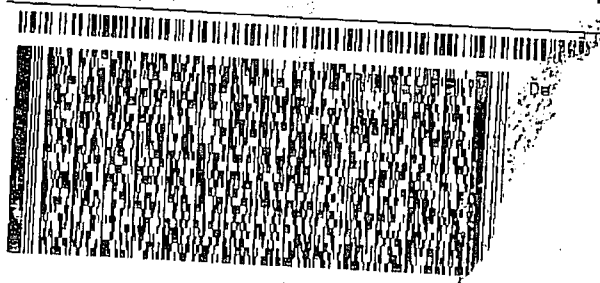
ORIGIN ID: ROMA 8051-140-3312
NAVAJO REFINING
NAVAJO REFINING COMPANY
501 E. MAIN STREET

Ship Date: 08APR09
ActWgt: 42.0 LB MAN
System#: 185697/CAFE2353
Account: S 1136841B6

ARTESIA, NM 88210
UNITED STATES US

TO SAMPLE RECEIVING
ELAB/ALS
10450 STANCLIFF RD. SUITE 210
HOUSTON, TX 77099

(281) 530-5566
FedEx
Express



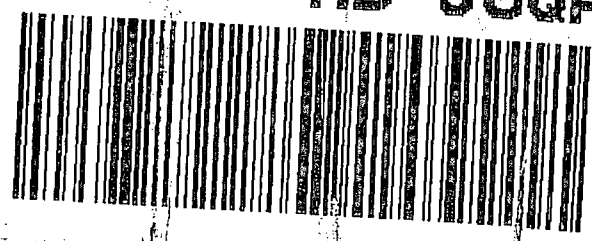
PRIORITY OVERNIGHT

TRK# 9391 8022 9694 Form 0201

77099 -TX-US

AB JGQA

THU
IAH
Ver By: 309
R2



ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTOMER
Date: 4/8/09
Name: Antonio
Company: NAVAJO

ODY SEAL
Time: 1615
Signature: S. F. G. G. R.
Refining Co.

Seal broken by:
PSH
4/21/09

ALS Laboratory Group

Date: 16-Apr-09

Client: ALS Laboratory Group

Project: 0904232

Work Order: 0904245

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0904245-01	0904232-01B	Sludge		4/8/2009 09:05	4/14/2009 10:00	☐

ALS Laboratory Group

Date: 16-Apr-09

Client: ALS Laboratory Group

Project: 0904232

Work Order: 0904245

Sample ID: 0904232-01B

Lab ID: 0904245-01

Collection Date: 4/8/2009 09:05 AM

Matrix: SLUDGE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE			SW7.3.3.2			
Cyanide, Reactive	ND		40.0	mg/Kg	1	4/15/2009
SULFIDE, REACTIVE			SW7.3.4.2			
Sulfide, Reactive	ND		40.0	mg/Kg	1	4/15/2009

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
a - Not accredited

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
n - Not offered for accreditation

ALS Laboratory Group

Client: ALS Laboratory Group
Work Order: 0904245
Project: 0904232

Date: 16-Apr-09

QC BATCH REPORT

Batch ID: R67210 Instrument ID WETCHEM Method: SW7.3.3.2

MBLK	Sample ID: WBLKS1-041509-R67210					Units: mg/Kg		Analysis Date: 4/15/2009		
Client ID:	Run ID: WETCHEM_090415E					SeqNo: 1132895		Prep Date: 4/15/2009		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	40								

LCS	Sample ID: WLCSS1-041509-R67210					Units: mg/Kg		Analysis Date: 4/15/2009		
Client ID:	Run ID: WETCHEM_090415E					SeqNo: 1132896		Prep Date: 4/15/2009		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	249.6	40	250	0	99.8	75-125	0			

LCSD	Sample ID: WLCSDS1-041509-R67210					Units: mg/Kg		Analysis Date: 4/15/2009		
Client ID:	Run ID: WETCHEM_090415E					SeqNo: 1132910		Prep Date: 4/15/2009		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	249.6	40	250	0	99.8	75-125	249.6	0	35	

MS		Sample ID: 0904241-04A MS				Units: mg/Kg		Analysis Date: 4/15/2009		
Client ID:		Run ID: WETCHEM_090415E				SeqNo: 1132902		Prep Date: 4/15/2009		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	220.2	40	250	0	88.1	50-150	0			

MSD	Sample ID: 0904241-04A MSD					Units: mg/Kg		Analysis Date: 4/15/2009		
Client ID:	Run ID: WETCHEM_090415E					SeqNo: 1132903		Prep Date: 4/15/2009		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	0	94	50-150	220.2	6.45	35	

The following samples were analyzed in this batch:

0904245-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

Client: ALS Laboratory Group
Work Order: 0904245
Project: 0904232

QC BATCH REPORT

Batch ID: **R67211** Instrument ID **WETCHEM** Method: **SW7.3.4.2**

MBLK Sample ID: **WBLKS1-041509-R67211** Units: **mg/Kg** Analysis Date: **4/15/2009**
Client ID: Run ID: **WETCHEM_090415F** SeqNo: **1132911** Prep Date: **4/15/2009** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch: 0904245-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

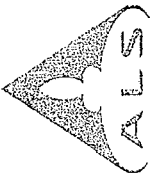
R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



Subcontractor:
ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424

TEL: (616) 399-6070
FAX: (616) 399-6185
Acct #:

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: 09-Apr-09
COC ID: 7576
Due Date: 21-Apr-09

Parameter/Method Request for Analysis

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	Work Order	Project Name	Project Number	A	B	C	D	E	F	G	H	I	J			
Company Name	ALS Group USA, Corp.	Bill To Company	ALS Group USA, Corp.	Reactive Cyanide (SW-846)	Reactive Sulfide (SW-846)											
Send Report To	JayLynn F Thibault	Inv Attn	Accounts Payable													
Address	10450 Stancliff Rd, Suite 210	Address	10450 Stancliff Rd, Suite 210													
City/State/Zip	Houston, Texas 77099-4338	City/State/Zip	Houston, Texas 77099-4338													
Phone	(281) 530-5656	Phone	(281) 530-5656													
Fax	(281) 530-5887	Fax	(281) 530-5887													
eMail Address	jaylynn.thibault@alsenviro.com	eMail CC	glenda.ramos@alsenviro.com													
Sample ID	0904232-01B (DAF)	Matrix	Sludge													
		Collection Date	4/8/2009 9:05													
		Bottle	(1) 4OZGNEAT													

Comments:

Report/QC Level

Cooler fids

Date/Time

Received by:

Date/Time

Relinquished by:

Date/Time

SPD

Date/Time

Received by:

Date/Time

Relinquished by:

Date/Time

SPD

Date/Time

Received by:

Date/Time

Relinquished by:

Date/Time

4/14/09 10:00

ALS Laboratory Group

Sample Receipt Checklist

Client Name ELAB-HOU

Date/Time Received: 4/14/2009 10:00

Work Order Number 0904245

Received by: ARB

Checklist completed by

[Signature] 4/14/09
Signature Date

Reviewed by

[Signature] 4/14/09
Initials Date

Matrix: sludge

Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
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 ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

2.2 C

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace?

Yes ☐

No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐ N/A ☒

Adjusted? [Signature]

Checked by [Signature]

Login Notes:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

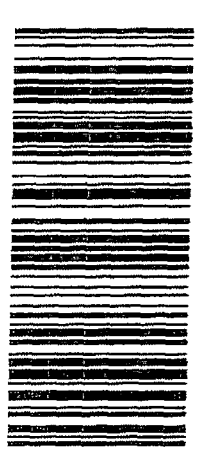
Corrective Action _____



Stanciliff Rd., Suite 210
Houston, Tex.
Tel. +1 281 530 5656
Fax +1 281 530 5887

CUSTODY SEAL	
Date: 4/19/99	Time: 1000
Name: R. Sanchez	
Seal Broken By: AB	
Date: 4/19/99	

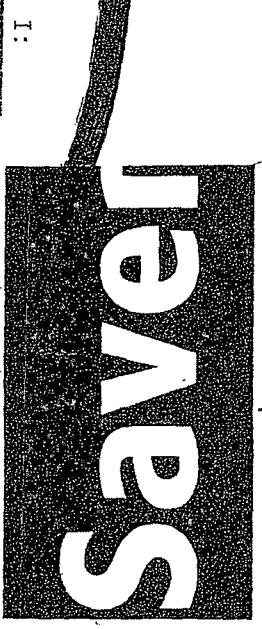
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123948 SEC007 US 04859 Apr 14 07:17:51 2000 HTP 7.0.1 INT412X



WEIGHT	36
DIMENSIONAL WEIGHT	
LARGE PACKAGE	☐

1500

	UPS Next Day Air	Saver
Shipping Document		



MI 495 9-04

SHIPMENT FROM
UPS ACCOUNT NO. **698174**
REFERENCE NUMBER

SUB CONTRACT

TELEPHONE
281-530-5656

RICHARD SANCHEZ

ALS LABORATORY GROUP

1450 STANCLIFF RD STE 210

P: 3352 128TH AVE
HOLLAND MI 49424

S:

I:

M813-RDL

DELIVERY TO	HOUSTON	TX	77099
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RECEIVING

TELEPHONE
616-399-6070

ALS LABORATORY GROUP

3352 128TH AVE

HOLLAND

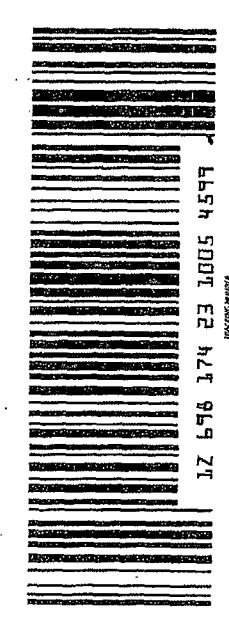
MI

49424

(ORC #7258 10/2007)
0201952542609 1/07 S

United Parcel Service, Louisville, KY

UPS Next Day Air	Saver	1P
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150 of 500

SHIPMENT ID NUMBER	6781 7478 BGL
---------------------------	----------------------

150 of 500

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NR0000012017	Manifest Doc. No.	2. Page 1 of 3							
3. Generator's Name and Mailing Address Marajo Recycling Co. LLC PO Box 159 Artesia, NM 88211-0159			NC 8778								
4. Generator's Phone (505) 748-3111											
5. Transporter 1 Company Name S Brothers		6. US EPA ID Number		A. Transporter's Phone							
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone							
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number		C. Facility's Phone							
11. Waste Shipping Name and Description				12. Containers		13. Total		14. Unit			
				No. Type		Quantity		Wt/Vol			
				a. PAF				10 yds			
				b.							
				c.							
d.											
D. Additional Descriptions for Materials listed Above						E. Handling Codes For Wastes Listed Above					
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.											
Printed/Typed Name Carric Hernandez					Signature <i>Carric Hernandez</i>			Month Day Year 12 10 18			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name <i>[Signature]</i>					Signature <i>[Signature]</i>			Month Day Year 12 10 18			
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name					Signature			Month Day Year			
19. Discrepancy Indication Space											
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.											
Printed/Typed Name					Signature			Month Day Year			

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0048910017		Manifest Doc. No.		2. Page 1 of 1	
3. Generator's Name and Mailing Address Navajo Refining Co. LLC PO Box 159 Artesia, NM 88211-0159						NO 8779	
4. Generator's Phone (575) 748-3111							
5. Transporter 1 Company Name S Brothers			6. US EPA ID Number		A. Transporter's Phone		
7. Transporter 2 Company Name			8. US EPA ID Number		B. Transporter's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM			10. US EPA ID Number		C. Facility's Phone		
11. Waste Shipping Name and Description						12. Containers	
						No.	Type
a. DAF							
b. CELL 4							
c.							
d.							
13. Total Quantity						14. Unit Wt/Vol	
10 yds							
D. Additional Descriptions for Materials listed Above						E. Handling Codes For Wastes Listed Above	
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Printed/Typed Name Carrie Hernandez				Signature Carrie Hernandez		Month Day Year 12 2 12	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name DANIELA M. J. ...				Signature [Signature]		Month Day Year 12 5 12	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.							
Printed/Typed Name				Signature		Month Day Year	

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 1070406310717	Manifest Doc. No.	2. Page 1 of 1		
3. Generator's Name and Mailing Address PO Box 159 Artesia, NM 88211-0159				NE 8780		
4. Generator's Phone (575) 748-3311						
5. Transporter 1 Company Name D Brothers		6. US EPA ID Number .		A. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number .		B. Transporter's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number .		C. Facility's Phone		
11. Waste Shipping Name and Description				12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. SAF					10 yds	
b.						
c.						
d.						
D. Additional Descriptions for Materials listed Above				E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name Carmen Hernandez				Signature Carmen Hernandez		Month Day Year 6 6 08
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Month Day Year 6 6 08
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Month Day Year . . .
19. Discrepancy Indication Space						
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.						
Printed/Typed Name				Signature		Month Day Year . . .

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0049010017		Manifest Doc. No.		2. Page 1 of 1											
3. Generator's Name and Mailing Address Navajo Refining Co., LLC PO Box 153 Artesia, NM 88211-0153 4. Generator's Phone (575) 748-3311						NE 8711											
5. Transporter 1 Company Name S Brothers				6. US EPA ID Number		A. Transporter's Phone											
7. Transporter 2 Company Name				8. US EPA ID Number		B. Transporter's Phone											
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM				10. US EPA ID Number		C. Facility's Phone											
11. Waste Shipping Name and Description						12. Containers		13. Total		14. Unit							
						No.		Type		Quantity		Wt/Vol					
						a. <i>Oil Spill Material</i>								10 yds			
						b. <i>Oil Spill Material</i>											
						c. <i>Oil Spill Material</i>											
d. <i>Oil Spill Material</i>																	
D. Additional Descriptions for Materials listed Above						E. Handling Codes For Wastes Listed Above											
15. Special Handling Instructions and Additional Information																	
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.																	
Printed/Typed Name <i>Tommy Williams</i>						Signature <i>Tommy Williams</i>			Month Day Year 1 28 08								
17. Transporter 1 Acknowledgement of Receipt of Materials																	
Printed/Typed Name <i>Tommy Williams</i>						Signature <i>Tommy Williams</i>			Month Day Year 1 28 08								
18. Transporter 2 Acknowledgement of Receipt of Materials																	
Printed/Typed Name						Signature			Month Day Year								
19. Discrepancy Indication Space																	
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.																	
Printed/Typed Name						Signature			Month Day Year								

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 000000017		Manifest Doc. No.		2. Page 1 of 1			
3. Generator's Name and Mailing Address Navajo Refining Co., LLC PO Box 159 Artesia, NJ 08211-0159						NR 8713			
4. Generator's Phone (975) 746-3311									
5. Transporter 1 Company Name D Brotherton			6. US EPA ID Number		A. Transporter's Phone				
7. Transporter 2 Company Name			8. US EPA ID Number		B. Transporter's Phone				
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM			10. US EPA ID Number		C. Facility's Phone				
11. Waste Shipping Name and Description						12. Containers		13. Total Quantity	14. Unit Wt/Vol
						No.	Type		
a. Controlled Soil DAF								10 yds	
b.									
c.									
d.									
D. Additional Descriptions for Materials listed Above						E. Handling Codes For Wastes Listed Above			
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.									
Printed/Typed Name DAVID H. CARMICHAEL					Signature <i>David H. Carmichael</i>		Month	Day	Year
							1	28	05
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name DAVID H. CARMICHAEL					Signature <i>David H. Carmichael</i>		Month	Day	Year
							1	28	05
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature		Month	Day	Year
19. Discrepancy Indication Space									
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.									
Printed/Typed Name					Signature		Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Doc. No.		2. Page 1 of							
3. Generator's Name and Mailing Address						N2 8757							
Generator's Phone () <i>None</i>													
5. Transporter 1 Company Name <i>S. Brothers</i>			6. US EPA ID Number		A. Transporter's Phone								
7. Transporter 2 Company Name			8. US EPA ID Number		B. Transporter's Phone								
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM			10. US EPA ID Number		C. Facility's Phone								
11. Waste Shipping Name and Description <i>DAF</i>						12. Containers		13. Total		14. Unit			
						No.		Type		Quantity		Wt/Vol	
						a.							
						b.							
						c.							
d.													
Additional Descriptions for Materials listed Above						E. Handling Codes For Wastes Listed Above							
15. Special Handling Instructions and Additional Information													
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.													
Printed/Typed Name						Signature			Month Day Year				
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name <i>Chris Murray</i>						Signature <i>[Signature]</i>			Month Day Year <i>01/19/03</i>				
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name						Signature			Month Day Year				
19. Discrepancy Indication Space <i>None</i>													
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.													
Printed/Typed Name						Signature			Month Day Year				

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1		
3. Generator's Name and Mailing Address P.O. Box 150 Artesia, NM 87211-0150			NE 8723			
4. Generator's Phone (505) 748-3310						
5. Transporter 1 Company Name S Brothers		6. US EPA ID Number .	A. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number .	B. Transporter's Phone			
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number .	C. Facility's Phone			
11. Waste Shipping Name and Description			12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	
a. 500			.	.	10 yds	
b.			.	.	.	
c.			.	.	.	
d.			.	.	.	
Additional Descriptions for Materials listed Above			E. Handling Codes For Wastes Listed Above			
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name George Hernandez		Signature <i>George Hernandez</i>		Month Day Year 1 2 16		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name .		Signature <i>[Signature]</i>		Month Day Year 1 2 16		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year .		
19. Discrepancy Indication Space						
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year .		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 86210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator <u>Navajo Refining Co</u>
2. Management Facility Destination <u>Artesia Aeration</u>	5. Originating Site <u>Artesia NM</u>
3. Address of Facility Operator	6. Transporter <u>S Brothers</u>
7. Location of Material (Street Address or ULSTR) <u>501 E Main Artesia</u>	8. State <u>NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL: Dissolved Air Float from petroleum refining.

Estimated Volume 80 cy/week Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE _____ TITLE: _____ DATE: _____
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

E-MAIL ADDRESS _____

(This space for State Use)		
APPROVED BY: _____	TITLE: _____	DATE: _____
APPROVED BY: _____	TITLE: _____	DATE: _____



REFINING COMPANY, L.P.

FAX

(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 746-3311

FAX

(505) 746-5419 ACCOUNTING
(505) 746-5451 EXEC/MKTG
(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

August 30, 2007

Mr. Jim Wilson
Artesia Aeration, Inc

RE: Approval of DAF for Disposal at Artesia Aeration

Dear Jim,

Navajo recently sent you a TCLP analysis of our DAF waste stream. Also included in that analysis were readings for chlorides and paint filter. Based on the analysis from this grab sample, I certify by my signature below that this waste stream is non-hazardous and can be landfarmed under the limits set by the New Mexico Oil Conservation Division in NMAC 19.15.36.15.

Sincerely,
NAVAJO REFINING COMPANY

Darrell Moore
Environmental Manager for Water and Waste

An Independent Refinery Serving . . .
NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO

District I
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
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-138
Revised March 12, 2007

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

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: NAVAJO REFINERY
2. Originating Site: ARTESIA FACILITY
3. Location of Material (Street Address, City, State or ULSTR): 501 E. MAIN, ARTESIA NM 88211
4. Source and Description of Waste: 08-20-07 (RENEWAL OF PREVIOUS C-138 07-25-06B) DISSOLVED AIR FLOATATION (DAF) FLOAT. ENCLOSED PREVIOUS C-138, NON-EXEMPT WASTE CERTIFICATE, ANALYTICAL, CHAIN OF CUSTODY AND LETTER STATING PROCESS HAS NOT CHANGED.
Estimated Volume 60 yd ³ / wkly / d ³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd ³ / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, DARRELL MOORE, representative or authorized agent for NAVAJO REFINERY do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) ☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load XX RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) ☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: S BROTHERS

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: CONTROLLED RECOVERY, INC. R-9166

Address of Facility: P.O. BOX 388, HOBBS, NM 88241

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☒ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: John Q. Barnidge

TITLE: REP. CEO + PRES DATE: 08-20-07

SIGNATURE: John Q. Barnidge
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-393-1079

Chavez, Carl J, EMNRD

From: Price, Wayne, EMNRD
Sent: Tuesday, February 19, 2008 9:48 AM
To: Jones, Brad A., EMNRD; Chavez, Carl J, EMNRD
Subject: FW: Possible improper waste disposal
Attachments: DAF Application Profile.pdf; DAF Disposal Final.pdf; 2 DAF Disposal Final.pdf

Guys, make sure this gets into the respective files.

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Friday, February 08, 2008 2:29 PM
To: Price, Wayne, EMNRD; Jim Wilson
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: RE: Possible improper waste disposal

Wayne,

Navajo stopped the shipment of Dissolved Air Flotation (DAF) to Artesia Aeration as soon as you called me Wednesday. It is my understanding after discussions with Jim Wilson at Artesia Aeration that the material has been isolated and we will send trucks to the landfarm to pick it up and dispose of it at Controlled Recovery, Inc. We will complete that next week.

Attached to this email are the following:

- 1) Paperwork, non-hazardous waste manifests, and sample analysis that we sent to Artesia Aeration to get this material approved. We were given a verbal approval from Artesia Aeration to send the waste.
- 2) Approved C-138 from Controlled Recovery, Inc. dated August 20, 2007 to dispose of DAF.

As I mentioned on the phone, we have only sent this waste to Artesia Aeration since January 14, 2008 a total of 8 loads to our knowledge. The reason I say that is that our secretary is out recovering from surgery and we searched the files and found 8 manifests. I don't believe there are any more. If we find any new manifests we will forward those to you.

If there are any further questions concerning this matter, please don't hesitate to call me at 575-746-5281.

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Wednesday, February 06, 2008 11:36 AM
To: Jim Wilson; Moore, Darrell
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: Possible improper waste disposal

Dear Mr. Wilson:

It has come to OCD's attention that possible RCRA listed DAF (dissolved air floatation waste normally know as K-048) waste generated at the Navajo Artesia Refinery has been disposed of at the Artesia Aeration land farm OCD permit # NM1-30. Please be aware your permit or the regulations do not allow such waste to be disposed of

2/19/2008

at your facility. You are hereby ordered to stop receiving such waste and perform the following actions:

1. Provide all paperwork, manifest, sample analysis concerning the waste in question to Mr. Brad Jones who will be on site tomorrow morning.
2. Also make arrangements so Mr. Jones may inspect all records during his inspection.
3. Isolate the waste in question until a final determination has been made by this agency for proper disposal.

Dear Mr. Moore:

Pursuant to our telephone conversation this morning you are hereby directed to stop disposing of the DAF waste generated at the Navajo Artesia Refinery at the Artesia Aeration landfarm OCD permit #NM1-30. You indicated this material is predominately dirt, scale, rust and is virtually oil free after it has gone thru the treatment process. You also indicated it is has been deemed non-hazardous. Please note landfarms are for remediating soils that have been contaminated with oilfield hydrocarbons. Since you indicated this material has already gone thru treatment it cannot be disposed of in the landfarm but must go to an OCD permitted landfill or another approved facility. You are hereby ordered to stop sending such waste to Artesia Aeration and perform the following actions today:

1. Provide a copy to this office of all of the paperwork, manifests, sample analysis, waste determinations concerning the waste in question.
2. Provide a copy or point out in your current discharge plan where this waste is approved to be disposed of.
3. Provide this agency a plan for approval to pick-up and properly dispose of the waste in question.

Wayne Price-Environmental Bureau Chief
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3490
Fax: 505-476-3462

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient (s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

This inbound email has been scanned by the MessageLabs Email Security System.

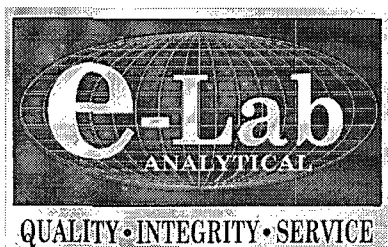
2/19/2008

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM00000910017	Manifest Doc. No.	2. Page 1 of 1
3. Generator's Name and Mailing Address DRIVE TO HOLDING CO., LLC PO Box 159 Artesia, NM 88211-0159			NE 8777	
4. Generator's Phone (575) 748-3311				
5. Transporter 1 Company Name S Brothers	6. US EPA ID Number	A. Transporter's Phone		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM	10. US EPA ID Number	C. Facility's Phone		
11. Waste Shipping Name and Description		12. Containers No.	Type	13. Total Quantity
a. DUFF				10 yds
b.				
c.				
d.				
D. Additional Descriptions for Materials listed Above		E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Carmelo Hernandez		Signature <i>Carmelo Hernandez</i>		Month Day Year 12 7 08
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name <i>DRIVE TO HOLDING CO.</i>		Signature <i>[Signature]</i>		Month Day Year 12 7 08
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year

GENERATOR

TRANSPORTER

FACILITY



e-Lab Analytical, Inc.

10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 (281) 530-5656 Fax (281) 530-5887

August 24, 2007

Jeff Byrd
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: DAF Disposal

Work Order : **0708424**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 1 sample on 8/14/2007 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 8.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Rebecca L. Hunt

Jeffrey L Croston
Project Manager



Certificate No: T104704231-06-TX

CLIENT: Navajo Refining Company
Project: DAF Disposal
Work Order: 0708424

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0708424-01	DAF	Solid		8/13/2007 15:00	8/14/2007 09:00	☐

e-Lab Analytical, Inc.

Date: August 24, 2007

CLIENT: Navajo Refining Company
Work Order: 0708424
Project: DAF Disposal
Lab ID: 0708424-01

Client Sample ID: DAF
Collection Date: 8/13/2007 3:00:00 PM

Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY - SOIL			E300		Prep Date: 8/23/2007	Analyst: LMD
Chloride	280		4.74	mg/Kg	1	8/23/2007 8:20:00 PM
Surr: Selenate (surr)	96.3		85-115	%REC	1	8/23/2007 8:20:00 PM
PAINT FILTER TEST			SW9095A			Analyst: LMD
Free Liquid	No Free Liquid			Pos/Neg	1	8/20/2007

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Aug 24 2007

CLIENT: Navajo Refining Company

QC BATCH REPORT

Work Order: 0708424

Project: DAF Disposal

Batch ID: 25205 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS1-082307 Units: mg/Kg Analysis Date: 08/23/07 19:26

Client ID: Run ID: ICS3000_070823A SeqNo: 1195750 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0	0	0	0	0-0	0			
Surr: Selenate (surr)	48.66	1.0	50	0	97.3	85-115	0			

LCS Sample ID: WLCSS1-082307 Units: mg/Kg Analysis Date: 08/23/07 19:48

Client ID: Run ID: ICS3000_070823A SeqNo: 1195751 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	202.4	5.0	200	0	101	90-110	0			
Surr: Selenate (surr)	50.53	1.0	50	0	101	85-115	0			

MS Sample ID: 0708365-01AMS Units: mg/Kg Analysis Date: 08/24/07 13:40

Client ID: Run ID: ICS3000_070823A SeqNo: 1196296 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.8	4.8	97.07	8.62	99	75-125	0			
Surr: Selenate (surr)	47.03	0.97	48.54	0	96.9	80-120	0			

MSD Sample ID: 0708365-01AMSD Units: mg/Kg Analysis Date: 08/24/07 14:05

Client ID: Run ID: ICS3000_070823A SeqNo: 1196297 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.7	4.8	97.07	8.62	99	75-125	104.8	0.0742	20	
Surr: Selenate (surr)	47.02	0.97	48.54	0	96.9	80-120	47.03	0.0206	20	

DUP Sample ID: 0708365-01ADUP Units: mg/Kg Analysis Date: 08/23/07 23:10

Client ID: Run ID: ICS3000_070823A SeqNo: 1196293 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.64	4.8	0	0	0	0-0	8.62	0.225	20	
Surr: Selenate (surr)	47.23	0.97	48.54	0	97.3	85-115	47.13	0.206	20	

The following samples were analyzed in this batch:

0708424-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708424
Project: DAF Disposal

QC BATCH REPORT

Batch ID: R53543 Instrument ID WetChem Method: SW9095A (Dissolve)

DUP Sample ID: 0708424-01ADUP Units: Pos/Neg Analysis Date: 08/20/07 0:00

Client ID: DAF Run ID: WETCHEM_070820I SeqNo: 1192730 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Free Liquid	ND	0	0	0	0		0	0	100	

The following samples were analyzed in this batch:

0708424-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

The Chain of Custody is a Legal Document. All Information must be completed accurately.

[illegible]

c: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

Copyright 2006 by e-Lab Analytical.

2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

Sample Receipt Checklist

Client Name: NAVAJO REFININGDate/Time Received: 8/14/2007 9:00:00 AMWork Order Number 0708282Received by: RSZ

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix: SCarrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

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 ☒No ☐

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

4.2c002

Water - VOA vials have zero headspace?

Yes ☐No ☐No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐No ☐N/A ☒Adjusted? ☐Checked by

Login Notes:

Client contacted: Date contacted: Person contacted Contacted by: Regarding: Comments: Corrective Action



e-Lab Analytical, Inc.

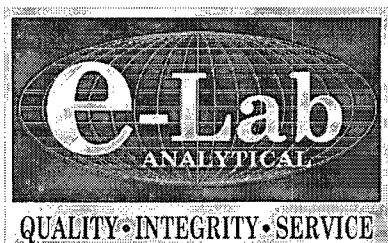
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. 281.530.5656
Fax. 218.530.5887

CUSTODY SEAL

Date: 8/13/07 Time: 1610
Name: JEFF A. Byrd
Company: Alkermes

Seal Broken By:

8-14-07



e-Lab Analytical, Inc.

10450 Standcliff Rd, Suite 210 Houston, Texas 77099-4338 (281) 530-5656 Fax (281) 530-5887

August 16, 2007

Jeff Byrd
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: DAF Disposal

Work Order : **0708282**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 1 sample on 8/14/2007 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 26.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Rebecca L. Hunt

Jeffrey L Croston
Project Manager



Certificate No: T104704231-06-TX

CLIENT: Navajo Refining Company
Project: DAF Disposal
Work Order: 0708282

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0708282-01	DAF	Soil		8/13/2007 15:00	8/14/2007 09:00	☐

e-Lab Analytical, Inc.

Date: August 16, 2007

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal
 Lab ID: 0708282-01

Client Sample ID: DAF
 Collection Date: 8/13/2007 3:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY						
Mercury	ND		SW7470 0.000200	mg/L	Prep Date: 8/15/2007 1	Analyst: JCJ 8/15/2007 1:47:46 PM
TCLP METALS, ICP						
Arsenic	ND		SW1311/6020 0.0500	mg/L	Prep Date: 8/15/2007 10	Analyst: ALR 8/15/2007 5:47:00 PM
Barium	0.183		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Cadmium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Chromium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Lead	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Selenium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Silver	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
TCLP SEMIVOLATILES						
2,4,5-Trichlorophenol	ND		SW1311/8270 5.0	µg/L	Prep Date: 8/15/2007 1	Analyst: ACN 8/16/2007 3:16:00 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Cresols, Total	61		30	µg/L	1	8/16/2007 3:16:00 PM
Hexachlorobenzene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Hexachloroethane	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Nitrobenzene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Pentachlorophenol	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Pyridine	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Surr: 2,4,6-Tribromophenol	64.0		42-124	%REC	1	8/16/2007 3:16:00 PM
Surr: 2-Fluorobiphenyl	67.0		48-120	%REC	1	8/16/2007 3:16:00 PM
Surr: 2-Fluorophenol	58.7		20-120	%REC	1	8/16/2007 3:16:00 PM
Surr: 4-Terphenyl-d14	65.6		51-135	%REC	1	8/16/2007 3:16:00 PM
Surr: Nitrobenzene-d5	68.7		41-120	%REC	1	8/16/2007 3:16:00 PM
Surr: Phenol-d6	63.0		20-120	%REC	1	8/16/2007 3:16:00 PM
TCLP VOLATILES						
1,1-Dichloroethene	ND		SW1311/8260B 100	µg/L	Prep Date: 8/14/2007 20	Analyst: PC 8/15/2007 1:40:00 PM
1,2-Dichloroethane	ND		100	µg/L	20	8/15/2007 1:40:00 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
2-Butanone	ND		200	µg/L	20	8/15/2007 1:40:00 PM
Benzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Carbon tetrachloride	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Chlorobenzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Chloroform	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Tetrachloroethene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Trichloroethene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Vinyl chloride	ND		100	µg/L	20	8/15/2007 1:40:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 16, 2007

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal
Lab ID: 0708282-01

Client Sample ID: DAF
Collection Date: 8/13/2007 3:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 1,2-Dichloroethane-d4</i>	102		70-125	%REC	20	8/15/2007 1:40:00 PM
<i>Surr: 4-Bromofluorobenzene</i>	105		72-125	%REC	20	8/15/2007 1:40:00 PM
<i>Surr: Dibromofluoromethane</i>	103		71-125	%REC	20	8/15/2007 1:40:00 PM
<i>Surr: Toluene-d8</i>	106		75-125	%REC	20	8/15/2007 1:40:00 PM
CYANIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Cyanide	ND		40.0	mg/Kg	1	8/13/2007
SULFIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Sulfide	ND		40.0	mg/Kg	1	8/13/2007
IGNITABILITY FOR SOLIDS			SW846, CHPT. 7.1.2			Analyst: RPM
Burns vigorously and persistently	No				1	8/15/2007
Ignites spontaneously	No				1	8/15/2007
Ignites through friction	No				1	8/15/2007
Ignites under std. temp and pressure	No				1	8/15/2007
Ignites with moisture	No				1	8/15/2007
PH IN SOLID			SW9045B			Analyst: TH
pH	7.19		0.100	pH Units	1	8/15/2007

Qualifiers: ND - Not Detected at the Reporting Limit
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 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Aug 16 2007

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25068 Instrument ID Mercury Method: SW7470

MBLK Sample ID: GBLKT1-081507 Units: mg/L Analysis Date: 08/15/07 13:14
 Client ID: Run ID: MERCURY_070815A SeqNo: 1189823 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

MBLK Sample ID: GBLKW1-081507 Units: mg/L Analysis Date: 08/15/07 12:55
 Client ID: Run ID: MERCURY_070815A SeqNo: 1189834 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: GLCSW1-081507 Units: mg/L Analysis Date: 08/15/07 12:57
 Client ID: Run ID: MERCURY_070815A SeqNo: 1189835 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00516	0.00020	0.005	0	103	80-120	0			

LCSD Sample ID: GLCSDW1-081507 Units: mg/L Analysis Date: 08/15/07 12:59
 Client ID: Run ID: MERCURY_070815A SeqNo: 1189836 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00492	0.00020	0.005	0	98.4	80-120	0.00516	4.76	25	

MS Sample ID: 0708254-01BMS Units: mg/L Analysis Date: 08/15/07 13:06
 Client ID: Run ID: MERCURY_070815A SeqNo: 1189816 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00493	0.00020	0.005	-0.000016	98.9	75-125	0			

MSD Sample ID: 0708254-01BMSD Units: mg/L Analysis Date: 08/15/07 13:08
 Client ID: Run ID: MERCURY_070815A SeqNo: 1189819 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00482	0.00020	0.005	-0.000016	96.7	75-125	0.00493	2.26	20	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **25068** Instrument ID **Mercury** Method: **SW7470**

DUP Sample ID: **0708254-01BDUP** Units: **mg/L** Analysis Date: **08/15/07 13:03**

Client ID: Run ID: **MERCURY_070815A** SeqNo: **1189815** Prep Date: **8/15/2007** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.000016	0	20	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25074 Instrument ID ICPMS02 Method: SW1311/6020

MBLK Sample ID: MBLKT1-081407 Units: mg/L Analysis Date: 08/15/07 17:15
 Client ID: Run ID: ICPMS02_070815A SeqNo: 1190263 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

MBLK Sample ID: MBLKW3-081507 Units: mg/L Analysis Date: 08/15/07 17:21
 Client ID: Run ID: ICPMS02_070815A SeqNo: 1190264 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

LCS Sample ID: MLC3W3-081507 Units: mg/L Analysis Date: 08/15/07 17:28
 Client ID: Run ID: ICPMS02_070815A SeqNo: 1190265 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1807	0.050	0.2	0	90.4	80-120	0			
Barium	0.1939	0.050	0.2	0	97	80-120	0			
Cadmium	0.1976	0.050	0.2	0	98.8	80-120	0			
Chromium	0.1906	0.050	0.2	0	95.3	80-120	0			
Lead	0.2057	0.050	0.2	0	103	80-120	0			
Selenium	0.2032	0.050	0.2	0	102	80-120	0			
Silver	0.1866	0.050	0.2	0	93.3	80-120	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25074 Instrument ID ICPMS02 Method: SW1311/6020

MS Sample ID: 0708293-01AMS Units: mg/L Analysis Date: 08/15/07 18:43

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190276 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.193	0.050	0.2	0.0004601	96.3	75-125	0			
Barium	0.9508	0.050	0.2	0.7502	100	75-125	0			
Cadmium	0.197	0.050	0.2	0.001594	97.7	75-125	0			
Chromium	0.2012	0.050	0.2	0.01973	90.7	75-125	0			
Lead	0.2013	0.050	0.2	0.005644	97.8	75-125	0			
Selenium	0.2181	0.050	0.2	0.009863	104	75-125	0			
Silver	0.1717	0.050	0.2	-0.002527	87.1	75-125	0			

MSD Sample ID: 0708293-01AMSD Units: mg/L Analysis Date: 08/15/07 18:49

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190277 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1918	0.050	0.2	0.0004601	95.7	75-125	0.193	0.624	25	
Barium	0.9347	0.050	0.2	0.7502	92.2	75-125	0.9508	1.71	25	
Cadmium	0.1959	0.050	0.2	0.001594	97.2	75-125	0.197	0.56	25	
Chromium	0.1957	0.050	0.2	0.01973	88	75-125	0.2012	2.77	25	
Lead	0.2006	0.050	0.2	0.005644	97.5	75-125	0.2013	0.348	25	
Selenium	0.2191	0.050	0.2	0.009863	105	75-125	0.2181	0.457	25	
Silver	0.1644	0.050	0.2	-0.002527	83.5	75-125	0.1717	4.34	25	

DUP Sample ID: 0708293-01ADUP Units: mg/L Analysis Date: 08/15/07 18:31

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190274 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050	0	0	0	0-0	0.0004601	0	25	
Barium	0.7598	0.050	0	0	0	0-0	0.7502	1.27	25	
Cadmium	ND	0.050	0	0	0	0-0	0.001594	0	25	
Chromium	0.01939	0.050	0	0	0	0-0	0.01973	0	25	J
Lead	0.004559	0.050	0	0	0	0-0	0.005644	0	25	J
Selenium	ND	0.050	0	0	0	0-0	0.009863	0	25	
Silver	ND	0.050	0	0	0	0-0	-0.002527	0	25	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25077 Instrument ID SV-3 Method: SW8270

MBLK		Sample ID: SBLKT1-070815				Units: µg/L		Analysis Date: 08/16/07 13:54		
Client ID:		Run ID: SV-3_070816A				SeqNo: 1190903		Prep Date: 8/15/2007		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Cresols, Total	ND	5.0								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	5.0								
Hexachloroethane	ND	5.0								
Nitrobenzene	ND	5.0								
Pentachlorophenol	ND	5.0								
Pyridine	ND	5.0								
Surr: 2,4,6-Tribromophenol	70.22	0	100	0	70.2	42-124	0			
Surr: 2-Fluorobiphenyl	75.53	0	100	0	75.5	48-120	0			
Surr: 2-Fluorophenol	68.54	0	100	0	68.5	20-120	0			
Surr: 4-Terphenyl-d14	79.46	0	100	0	79.5	51-135	0			
Surr: Nitrobenzene-d5	80.11	0	100	0	80.1	41-120	0			
Surr: Phenol-d6	73.01	0	100	0	73	20-120	0			

LCS		Sample ID: SLCST1-070815				Units: µg/L		Analysis Date: 08/16/07 14:22		
Client ID:		Run ID: SV-3_070816A				SeqNo: 1190904		Prep Date: 8/15/2007		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	87.64	5.0	100	0	87.6	52-115	0			
2,4,6-Trichlorophenol	81.31	5.0	100	0	81.3	56-115	0			
2,4-Dinitrotoluene	41.25	5.0	50	0	82.5	56-115	0			
Cresols, Total	202.3	5.0	200	0	101	48-115	0			
Hexachlorobenzene	44.78	5.0	50	0	89.6	54-115	0			
Hexachlorobutadiene	45.31	5.0	50	0	90.6	51-115	0			
Hexachloroethane	42.5	5.0	50	0	85	54-115	0			
Nitrobenzene	44.78	5.0	50	0	89.6	40-124	0			
Pentachlorophenol	83.93	5.0	100	0	83.9	45-125	0			
Pyridine	31.65	5.0	50	0	63.3	34-115	0			
Surr: 2,4,6-Tribromophenol	80.57	0	100	0	80.6	42-124	0			
Surr: 2-Fluorobiphenyl	78.86	0	100	0	78.9	48-120	0			
Surr: 2-Fluorophenol	73.94	0	100	0	73.9	20-120	0			
Surr: 4-Terphenyl-d14	80.66	0	100	0	80.7	51-135	0			
Surr: Nitrobenzene-d5	84.11	0	100	0	84.1	41-120	0			
Surr: Phenol-d6	76.29	0	100	0	76.3	20-120	0			

ND - Not Detected at the Reporting Limit

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O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **25077** Instrument ID **SV-3** Method: **SW8270**

LCSD Sample ID: **SLCSDT1-070815** Units: **µg/L** Analysis Date: **08/16/07 14:49**

Client ID: Run ID: **SV-3_070816A** SeqNo: **1190905** Prep Date: **8/15/2007** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	83.3	5.0	100	0	83.3	52-115	87.64	5.08	30	
2,4,6-Trichlorophenol	81.91	5.0	100	0	81.9	56-115	81.31	0.731	30	
2,4-Dinitrotoluene	38.28	5.0	50	0	76.6	56-115	41.25	7.48	30	
Cresols, Total	193.9	5.0	200	0	97	48-115	202.3	4.22	30	
Hexachlorobenzene	44.33	5.0	50	0	88.7	54-115	44.78	1.02	30	
Hexachlorobutadiene	41.47	5.0	50	0	82.9	51-115	45.31	8.84	30	
Hexachloroethane	41.33	5.0	50	0	82.7	54-115	42.5	2.77	30	
Nitrobenzene	43.72	5.0	50	0	87.4	40-124	44.78	2.39	30	
Pentachlorophenol	83.14	5.0	100	0	83.1	45-125	83.93	0.951	30	
Pyridine	30.15	5.0	50	0	60.3	34-115	31.65	4.83	30	
Surr: 2,4,6-Tribromophenol	79.29	0	100	0	79.3	42-124	80.57	1.61	30	
Surr: 2-Fluorobiphenyl	78.23	0	100	0	78.2	48-120	78.86	0.806	30	
Surr: 2-Fluorophenol	72.85	0	100	0	72.8	20-120	73.94	1.49	30	
Surr: 4-Terphenyl-d14	80.29	0	100	0	80.3	51-135	80.66	0.465	30	
Surr: Nitrobenzene-d5	82.54	0	100	0	82.5	41-120	84.11	1.89	30	
Surr: Phenol-d6	74.73	0	100	0	74.7	20-120	76.29	2.07	30	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: R53443 Instrument ID VOA1 Method: SW1311/8260

MBLK Sample ID: VBLKW-081507 Units: µg/L Analysis Date: 08/15/07 11:31
 Client ID: Run ID: VOA1_070815B SeqNo: 1190701 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachloroethene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	49.44	5.0	50	0	98.9	70-125	0			
Surr: 4-Bromofluorobenzene	51.61	5.0	50	0	103	72.4-125	0			
Surr: Dibromofluoromethane	51.92	5.0	50	0	104	71.2-125	0			
Surr: Toluene-d8	50.51	5.0	50	0	101	75-125	0			

MBLK Sample ID: VBLKTK1-081007 Units: µg/L Analysis Date: 08/15/07 11:57
 Client ID: Run ID: VOA1_070815B SeqNo: 1190702 Prep Date: 8/10/2007 DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	970.1	100	1000	0	97	70-125	0			
Surr: 4-Bromofluorobenzene	1055	100	1000	0	106	72.4-125	0			
Surr: Dibromofluoromethane	993.4	100	1000	0	99.3	71.2-125	0			
Surr: Toluene-d8	1032	100	1000	0	103	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: R53443 Instrument ID VOA1 Method: SW1311/8260

MBLK Sample ID: VBLKTK2-081407 Units: µg/L Analysis Date: 08/15/07 12:23

Client ID: Run ID: VOA1_070815B SeqNo: 1190703 Prep Date: 8/14/2007 DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	1015	100	1000	0	102	70-125	0			
Surr: 4-Bromofluorobenzene	1020	100	1000	0	102	72.4-125	0			
Surr: Dibromofluoromethane	1023	100	1000	0	102	71.2-125	0			
Surr: Toluene-d8	1037	100	1000	0	104	75-125	0			

LCS Sample ID: VLCSW-081507 Units: µg/L Analysis Date: 08/15/07 10:40

Client ID: Run ID: VOA1_070815B SeqNo: 1190700 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	49.96	5.0	50	0	99.9	73-124	0			
1,2-Dichloroethane	52.01	5.0	50	0	104	76-120	0			
1,4-Dichlorobenzene	48.57	5.0	50	0	97.1	70-130	0			
2-Butanone	102.8	10	100	0	103	70-130	0			
Benzene	49.68	5.0	50	0	99.4	70-128	0			
Carbon tetrachloride	54.52	5.0	50	0	109	70-130	0			
Chlorobenzene	48.42	5.0	50	0	96.8	72-127	0			
Chloroform	50.28	5.0	50	0	101	70-130	0			
Tetrachloroethene	50.24	5.0	50	0	100	70-130	0			
Trichloroethene	48.39	5.0	50	0	96.8	72-129	0			
Vinyl chloride	45.21	5.0	50	0	90.4	70-130	0			
Surr: 1,2-Dichloroethane-d4	51.8	5.0	50	0	104	70-125	0			
Surr: 4-Bromofluorobenzene	52.18	5.0	50	0	104	72-125	0			
Surr: Dibromofluoromethane	52.53	5.0	50	0	105	71-125	0			
Surr: Toluene-d8	53.15	5.0	50	0	106	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: R53443 Instrument ID VOA1 Method: SW1311/8260

MS		Sample ID: 0708206-01AMS				Units: µg/L		Analysis Date: 08/15/07 14:05		
Client ID:		Run ID: VOA1_070815B				SeqNo: 1190707		Prep Date: 8/14/2007		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	856	100	1000	0	85.6	73-124	0			
1,2-Dichloroethane	1078	100	1000	0	108	76-120	0			
1,4-Dichlorobenzene	930.3	100	1000	0	93	70-130	0			
2-Butanone	2232	200	2000	0	112	70-130	0			
Benzene	965.4	100	1000	0	96.5	70-128	0			
Carbon tetrachloride	951.3	100	1000	0	95.1	70-130	0			
Chlorobenzene	910.5	100	1000	0	91	72-127	0			
Chloroform	955.1	100	1000	0	95.5	70-130	0			
Tetrachloroethene	875.4	100	1000	0	87.5	70-130	0			
Trichloroethene	905	100	1000	0	90.5	72-129	0			
Vinyl chloride	744.7	100	1000	0	74.5	70-130	0			
Surr: 1,2-Dichloroethane-d4	1049	100	1000	0	105	70-125	0			
Surr: 4-Bromofluorobenzene	1027	100	1000	0	103	72-125	0			
Surr: Dibromofluoromethane	1049	100	1000	0	105	71-125	0			
Surr: Toluene-d8	1012	100	1000	0	101	75-125	0			

MSD		Sample ID: 0708206-01AMSD				Units: µg/L		Analysis Date: 08/15/07 14:31		
Client ID:		Run ID: VOA1_070815B				SeqNo: 1190709		Prep Date: 8/14/2007		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	872.4	100	1000	0	87.2	73-124	856	1.9	20	
1,2-Dichloroethane	1060	100	1000	0	106	76-120	1078	1.66	20	
1,4-Dichlorobenzene	933.3	100	1000	0	93.3	70-130	930.3	0.327	20	
2-Butanone	2197	200	2000	0	110	70-130	2232	1.57	20	
Benzene	960.9	100	1000	0	96.1	70-128	965.4	0.465	20	
Carbon tetrachloride	921.8	100	1000	0	92.2	70-130	951.3	3.15	20	
Chlorobenzene	952.6	100	1000	0	95.3	72-127	910.5	4.52	20	
Chloroform	970.2	100	1000	0	97	70-130	955.1	1.56	20	
Tetrachloroethene	880.1	100	1000	0	88	70-130	875.4	0.541	20	
Trichloroethene	906	100	1000	0	90.6	72-129	905	0.112	20	
Vinyl chloride	804.4	100	1000	0	80.4	70-130	744.7	7.71	20	
Surr: 1,2-Dichloroethane-d4	1060	100	1000	0	106	70-125	1049	1.1	20	
Surr: 4-Bromofluorobenzene	1022	100	1000	0	102	72-125	1027	0.482	20	
Surr: Dibromofluoromethane	1049	100	1000	0	105	71-125	1049	0.038	20	
Surr: Toluene-d8	1053	100	1000	0	105	75-125	1012	3.99	20	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: R53385 Instrument ID WetChem Method: SW846, Chpt.

DUP Sample ID: 0708311-02D DUP Units: Analysis Date: 08/15/07 0:00
Client ID: Run ID: WETCHEM_070815E SeqNo: 1189790 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Burns vigorously and persistently	ND	0	0	0	0	0-0	0	0	0	
Ignites spontaneously	ND	0	0	0	0	0-0	0	0	0	
Ignites through friction	ND	0	0	0	0	0-0	0	0	0	
Ignites under std. temp and pressur	ND	0	0	0	0	0-0	0	0	0	
Ignites with moisture	ND	0	0	0	0	0-0	0	0	0	

The following samples were analyzed in this batch: 0708282-01A

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: R53395 Instrument ID WetChem Method: SW9045B

LCS Sample ID: WLCSS-081507 Units: pH Units Analysis Date: 08/15/07 0:00

Client ID: Run ID: WETCHEM_070815H SeqNo: 1189915 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.03	0.10	6	0	100	90-110		0		

DUP Sample ID: 0708282-01ADUP Units: pH Units Analysis Date: 08/15/07 0:00

Client ID: DAF Run ID: WETCHEM_070815H SeqNo: 1189928 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.22	0.10	0	0	0	0-0	7.19	0.416	20	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

The Chain of Custody is a Legal Document. All information must be completed accurately.

[illegible]

4. All changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

2 Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

Copyright 2006 by e-Lab Analytical.

Sample Receipt Checklist

Client Name: NAVAJO REFININGDate/Time Received: 8/14/2007 9:00:00 AMWork Order Number 0708282Received by: RSZ

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix: SCarrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

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 ☒No ☐

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

4.2c002

Water - VOA vials have zero headspace?

Yes ☐No ☐No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐No ☐N/A ☒

Adjusted? _____

Checked by _____

Login Notes:

Client contacted: _____

Date contacted: _____

Person contacted: _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action _____



e-Lab Analytical, Inc.

10450 Stancil Rd., Suite 210

Houston, Texas 77099

Tel. 281.530.5656

Fax. 218.530.6887

CUSTODY SEAL

Date: 8/13/07 Time: 1610

Name: JEFF Byrd

Company: Navajo

Seal Broken By:

8-14-07

e-Lab Analytical, Inc**Date:** *August 16, 2007***CLIENT:** e-Lab Analytical, Inc**Project:** 0708282**Work Order:** 0708365**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0708365-01	0708282-01B	Soil		8/13/2007 15:00	8/15/2007 09:50	☐

CLIENT: e-Lab Analytical, Inc**Project:** 0708282**Work Order:** 0708365**Case Narrative**

Batch R51624 Reactive Cyanide LCS/LCSD and MS/MSD RPDs were above control limits. The individual recoveries were in control.

e-Lab Analytical, Inc

Date: August 16, 2007

CLIENT: e-Lab Analytical, Inc

Client Sample ID: 0708282-01B

Work Order: 0708365

Collection Date: 8/13/2007 3:00:00 PM

Project: 0708282

Lab ID: 0708365-01

Matrix: SOIL

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE						Analyst: ED
Cyanide, Reactive	ND	40.0		mg/Kg	1	8/13/2007
SULFIDE, REACTIVE						Analyst: ED
Sulfide, Reactive	ND	40.0		mg/Kg	1	8/13/2007

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT: e-Lab Analytical, Inc

Work Order: 0708365

Project: 0708282

QC BATCH REPORT

Batch ID: R51623 Instrument ID WETCHEM Method: EPA 7.3.4.2

MBLK Sample ID MB-R51623 Units: mg/Kg Analysis Date: 08/13/07 0:00

Client ID: Run ID: WETCHEM_070813M SeqNo: 839935 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch:

0708365-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: e-Lab Analytical, Inc
 Work Order: 0708365
 Project: 0708282

QC BATCH REPORT

Batch ID: R51624 Instrument ID WETCHEM Method: EPA 7.3.3.2

MBLK	Sample ID	WBLKW1081307				Units: mg/Kg			Analysis Date: 08/13/07 0:00		
Client ID:	Run ID: WETCHEM_070813N			SeqNo: 839943		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide, Reactive	ND	40									

LCS	Sample ID: WLCSW1081307	Units: mg/Kg					Analysis Date: 08/13/07 0:00			
Client ID:	Run ID: WETCHEM_070813N			SeqNo: 839944		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	352.3	40	620	0	56.8	2.8-70	0			

LCSD	Sample ID	WLCSDW1081307					Units: mg/Kg		Analysis Date: 08/13/07 0:00		
Client ID:	Run ID: WETCHEM_070813N			SeqNo: 839954		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide, Reactive	146.8	40	620	0	23.7	2.8-70	352.3	82.4	35	R	

MS	Sample ID	0708253-02A MS					Units: mg/Kg		Analysis Date: 08/13/07 0:00		
Client ID:	Run ID: WETCHEM_070813N			SeqNo: 839952		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide, Reactive	411	40	620	0	66.3	2.8-70	0				

MSD	Sample ID	0708253-02A MSD					Units: mg/Kg		Analysis Date: 08/13/07 0:00		
Client ID:	Run ID: WETCHEM_070813N			SeqNo: 839953		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide, Reactive	146.8	40	620	0	23.7	2.8-70	411	94.7	35	R	

The following samples were analyzed in this batch:

0708365-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

Subcontractor:
e-Lab Analytical, Inc.
3352 128th Ave.

QUALITY • INTEGRITY • SERVICE

Subcontractor:

e-Lab Analytical, Inc.
3352 128th Ave.

Holland, MI 49424

TEL: (616) 399-6070

FAX: (616) 399-6185

Acct #:

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: Aug 14, 200

COC ID: 5412

Due Date 8/16/2007

Customer Information			Project Information		Parameter/Method Request for Analysis																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Purchase Order		Project Name	0708282	A	Cyanide, Reactive (SW-846)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

Comments:

Please analyze for Reactive Cyanide & Reactive Sulfide.

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level

Refringished by:

Date/Time:

Received by:

Date/Time

7

Sample Receipt Checklist

Client Name ELAB-HOUDate/Time Received: 8/15/2007 9:50:00 AMWork Order Number 0708365Received by: AJK

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix: SoilCarrier name: UPS

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

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 ☒No ☐

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

1.6°C

Water - VOA vials have zero headspace?

Yes ☐No ☐No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐No ☐N/A ☒

Adjusted? _____

Checked by _____

Login Notes:

Client contacted _____

Date contacted: _____

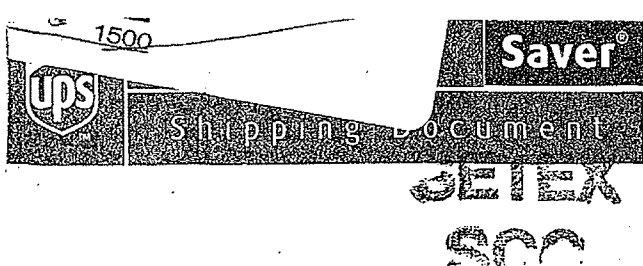
Person contacted _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action _____



SHIPMENT FROM	
UPS ACCOUNT NO.	698174
REFERENCE NUMBER	

RICHARD SANCHEZ
E-LAB, INC.
1450 STANCLIFF RD STE #210
HOUSTON TX 77099
TELEPHONE 281-530-5656

DELIVERY TO	
RECEIVING	TELEPHONE 616-399-6070
E-LAB, INC.	
3352 128TH AVE	
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e-Lab Analytical, Inc.
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. 281.530.5656
Fax. 218.530.5887

CUSTOMER

Date: 8/15/06
Name: Richard Sanchez
Company: e-Lab

By:
Date: 8/15/06

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, January 24, 2008 10:01 AM
To: 'Moore, Darrell'; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV
Subject: RE: Discharge Plan and New Pitch Rack Requirement for Secondary Containment

Darrell:

Based on our telephone call on Tuesday, January 22, 2008, and the information provided during the phone call, information briefly summarized below; and the provisions of the MSDS for "Petroleum Pitch," we agree that it is to be handled accordingly. For example, releases at the "Pitch Rack" shall be reported to the OCD in accordance with Rule 116. The waste is to be stored and disposed, recycled and/or reused appropriately. Navajo is aware that there may also be certain Federal reporting obligations associated with a release of this waste product. In addition, since Navajo Refining will work to remove spilled petroleum pitch from the pitch rack on a daily basis. The OCD is not requiring Navajo to install secondary containment, etc. at the pitch rack.

Please contact me if you have questions. Thank you.

Please be advised that NMOCD approval of this pitch rack does not relieve Navajo Refining of responsibility 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 Navajo Refining of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Carl J. Chavez, CHMM
 New Mexico Energy, Minerals & Natural Resources Dept.
 Oil Conservation Division, Environmental Bureau
 1220 South St. Francis Dr., Santa Fe, New Mexico 87505
 Office: (505) 476-3491
 Fax: (505) 476-3462
 E-mail: CarlJ.Chavez@state.nm.us
 Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
 (Pollution Prevention Guidance is under "Publications")

From: Moore, Darrell [<mailto:Darrell.Moore@hollycorp.com>]
Sent: Thursday, January 24, 2008 9:39 AM
To: Chavez, Carl J, EMNRD; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV
Subject: Pitch Rack

Carl

As we discussed on the phone, what we call pitch is a lower grade of asphalt. With the price of gasoline so high, refiners are doing everything they can to make more gasoline. To that end, Navajo uses a ROSE Unit. The ROSE Unit takes asphalt and removes light ends (the things that can make gasoline) and we take those light ends to our Gas Oil hydrotreater to make gasoline. What is left from this asphalt feed stock in the ROSE Unit is what we call pitch. This pitch is then stored in heated tanks until it is loaded onto trucks. These trucks will then transport it to an asphalt facility (in our case...Koch Asphalt) to be mixed with asphalt for road building material.

What we discussed on the phone is basically, why do we need a cement pad and secondary containment for material (PITCH) that is used to build roads? Our pitch loading area that I sent you the drawings for, will be a loading arm from tankage, with a pump to move the Pitch. Any spills that occur will be allowed to harden (this usually takes a few hours to a day) and then picked up and disposed at CRI in their landfill. We know from past experience and TCLP testing that any spills will be non-hazardous. Once you let this material cool down, you can literally pick it up by hand. Historically, spills are very small with this material. Where you have the potential to get

2/26/2008

large spills is if the truck you are loading into has ANY water in it, the hot PITCH will react with that water and "burp" over the top manway on the truck. But again, the typical response is to let it cool down, harden, and then pick it up.

Any spills will be removed within 24 hours. From a business standpoint, you wouldn't want trucks driving thru a spill, so quick cleanup is in everyone's best interest.

We are on a short timeline with this loading rack. Due to scheduling and manpower limitations, we need to start on this loading area by next Monday. We would like a ruling on this as soon as possible. I know you told me you would be out tomorrow so that leaves very little time. Obviously, we feel that a cement pad is overkill for this type of material. In fact, a cement pad with curbs and containment becomes a nightmare if you have a spill of this material because when it cools it plugs up everything. It is next to impossible to remove.

I look forward to hearing from you.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, L.P.
P.O. Box 159
Artesia, NM 88211-0159
Darrell.moore@navajo-refining.com
phone: 505.746.5281
cell: 505.703.5058
fax: 505.746.5451

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2/26/2008

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Thursday, January 24, 2008 9:39 AM
To: Chavez, Carl J, EMNRD; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV
Subject: Pitch Rack

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Any spills will be removed within 24 hours. From a business standpoint, you wouldn't want trucks driving thru a spill, so quick cleanup is in everyones best interest.

We are on a short timeline with this loading rack. Due to scheduling and manpower limitations, we need to start on this loading area by next Monday. We would like a ruling on this as soon as possible. I know you told me you would be out tomorrow so that leaves very little time. Obviously, we feel that a cement pad is overkill for this type of material. In fact, a cement pad with curbs and containment becomes a nightmare if you have a spill of this material because when it cools it plugs up everything. It is next to impossible to remove.

I look forward to hearing from you.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, L.P.
P.O. Box 159
Artesia, NM 88211-0159
Darrell.moore@navajo-refining.com
phone: 505.746.5281
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This inbound email has been scanned by the MessageLabs Email Security System.

2/26/2008

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Thursday, January 17, 2008 11:11 AM
To: Chavez, Carl J, EMNRD; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV
Subject: RE: Pitch Loading Pad
Attachments: NRC Asphalt All Grades - 11-2007.doc; NRC Petroleum Pitch - 2007.doc

Carl

Just a few matters of fact. Ive attached Navajo's MSDS sheets for Asphalt and Pitch. Look at the two sheets....asphalt is pitch and pitch is asphalt. They are interchangeable. We don't make Coal Tar.....we don't mine coal...we don't process wood products. In a refinery, Pitch is made by removing the lighter fractions from asphalt. Typically, pitch is then blended back into asphalt for paving materials. Coal tar pitch is not the same product...not the same process.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Thursday, January 17, 2008 9:44 AM
To: Moore, Darrell; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV
Subject: RE: Pitch Loading Pad

Darrell:

After conferring with my Supervisor, Mr. Wayne Price, and based on our evaluation of environmental and human health concerns associated with the storage, disposal, ground water contamination concerns, and exposure to "Pitch" (Coal Tar), Navajo Refining- Artesia shall construct the storage area with secondary containment and eliminate precipitation from infiltrating pitch stored at the facility that may cause storm water runoff, soil and ground water contamination problems at the facility. Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
 New Mexico Energy, Minerals & Natural Resources Dept.
 Oil Conservation Division, Environmental Bureau
 1220 South St. Francis Dr., Santa Fe, New Mexico 87505
 Office: (505) 476-3491
 Fax: (505) 476-3462
 E-mail: CarlJ.Chavez@state.nm.us
 Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
 (Pollution Prevention Guidance is under "Publications")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Wednesday, January 16, 2008 2:24 PM
To: Chavez, Carl J, EMNRD; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV
Subject: FW: Pitch Loading Pad

Carl

I sent this e mail to you on Monday. Navajo would like some guidance from OCD concerning this type of loading area. Navajo completely understand the need for secondary containment on loading areas where crude oil, gasoline, and diesel are being loaded. Those liquids pose a significant danger to groundwater if spilled. This particular loading area will be used to load Pitch...which is basically asphalt. Our question is...so what if you spill it? You let it cool and harden then you pick it up. It isn't going anywhere. We have miles and miles of roads that are made of asphalt all across this country. In effect, we have millions of tons of asphalt on the ground. Could we get some guidance on this issue? Is a cement pad with all the bells and whistles really needed in this service?

2/26/2008

From: Moore, Darrell
Sent: Monday, January 14, 2008 11:00 AM
To: 'Chavez, Carl J, EMNRD'; 'Price, Wayne, EMNRD'; 'Monzeglio, Hope, NMENV'
Subject: FW: Pitch Loading Pad

Attached are the drawings and location of a new truck loading area that will be built for loading PITCH which is close to asphalt in composition. Construction will begin in the next two weeks.

From: Hernandez, Carrie
Sent: Monday, January 14, 2008 10:51 AM
To: Moore, Darrell
Subject: Pitch Loading Pad

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MATERIAL SAFETY DATA SHEET

PETROLEUM PITCH

SECTION 1 - PRODUCT and COMPANY IDENTIFICATION

MANUFACTURER:

NAVAJO REFINING COMPANY, LLC
PO BOX 159
ARTESIA, NM 88211-0159

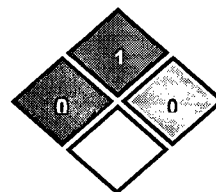
CONTACT INFORMATION:

Main Telephone – (575) 748-3311
Safety Department – (575) 365-8364 (24 Hours)
Environmental Department – (575) 365-8365 (24 Hours)

EMERGENCY PHONE NUMBERS:

CHEMTREC: 1-800-424-9300 (for fire, spill and emergency response information)
New Mexico Poison Information Center: 1-800-432-6866
Texas (El Paso) Poison Information Center: (915) 533-1244
Arizona Poison Information Center: 1-800-362-0101 or (602) 253-3334

PRODUCT NAME: Petroleum Pitch
CAS NUMBER: 8052-42-4
CHEMICAL FAMILY: Hydrocarbon
FORMULA: N/A
SYNONYMS: UN 1999, Asphalt, Petroleum Bitumen
SHIPPING NAME: Asphalt, 3, NA 1999, 111



NFPA 704 (SECTION 16)

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS			OSHA LIMITS (TWA)		NIOSH LIMITS (TWA)			ACGIH LIMITS (TWA)	
COMPONENTS	VOL %	CAS NO.	PEL	STEL	REL	STEL	IDLH	TLV	STEL
Asphalt Containing	100%	8052-42-4	NE	NE	5 mg/m ³ C	NE	NE	0.5 mg/m ³	NE
Hydrogen Sulfide	<0.1%	7783-06-4	10 ppm C*	50 ppm (Max)	10 ppm C	N/A	100 ppm	10 ppm	15 ppm

OTHER INGREDIENT INFORMATION: Petroleum Pitch is a complex mixture of paraffinic, aromatic, and naphthenic hydrocarbons. At high temperatures, petroleum asphalt fumes (CAS No. 8052-42-4) may be present. Material may contain polycyclic aromatic hydrocarbons (PAHs).

NOTE: * NM OHSA limit (normally 20 ppm C). C designates Ceiling Value, which should not be exceeded at any time. (Max) designates 10-minute maximum peak value, which should not to be exceeded at any time. NE designates Not Established.

SECTION 3 - PHYSICAL DATA

BOILING POINT: >700°F
VAPOR PRESSURE: N/A
VAPOR DENSITY (AIR=1): N/A
SOLUBILITY IN WATER: Insoluble
ODOR THRESHOLD: N/A

APPEARANCE AND ODOR: Black solid at room temperature with no appreciable odor. Liquid at elevated temperatures with tar-like odor.

SPECIFIC GRAVITY (WATER=1): 1.0 - 1.1
% VOLATILE BY VOLUME: 0%
EVAPORATION RATE: N/A
AUTOIGNITION TEMP: 400-700°F

PETROLEUM PITCH

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: Class IIIB, Combustible Liquid

FLASH POINT: >400°F (COC)

FLAMMABLE LIMITS: LEL = N/A UEL = N/A

EXTINGUISHING MEDIA: Dry chemical (Class B fire extinguisher), carbon dioxide (CO₂)

SPECIAL FIRE FIGHTING PROCEDURES: Move container from fire area, if possible. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Evacuate a radius of 1000 feet for uncontrolled fires. Water or foam may cause frothing and evolution of steam. Gases may accumulate from low boiling hydrocarbons and hydrogen sulfide. Iron sulfide may also accumulate.

NFPA FIRE = 1 (low)

SECTION 5 - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID/INCOMPATIBILITY: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, sulfur dioxide

NFPA REACTIVITY = 0 (minimal)

SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: At room temperature, petroleum pitch is a solid. Burns or respiratory exposure to fumes may occur from product at elevated temperatures.

HEALTH HAZARDS: Dermatitis, eye, skin or lung irritation. Hot petroleum pitch can cause severe burns. Exposure to over 600 ppm of hydrogen sulfide can be rapidly fatal.

CARCINOGENICITY: Asphalt (Petroleum Pitch) is not listed by NTP or IARC as a human carcinogen. Petroleum Pitch may contain polycyclic aromatic hydrocarbons which the NTP lists as anticipated human carcinogens. ACGIH categorizes Asphalt as A4, *Not Classifiable as a Human Carcinogen*.

SIGNS AND SYMPTOMS OF EXPOSURE: Skin irritation, irritation of nose and throat, burns from contact with hot petroleum pitch.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Maintain respiration, assist with artificial respiration if needed, and give oxygen if available and trained to do so. Seek medical attention.

BURNS: Immediately cool skin by quenching with cold water. Cover with a sterile dressing and seek medical assistance.

NFPA HEALTH = 0 (minimal)

PETROLEUM PITCH

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain spill. Allow to cool. Remove sources of ignition. Pick up with shovels or tractors. Place in appropriate waste containers.

WASTE DISPOSAL: Dispose in accordance with RCRA regulations. Do not put in sewers or any watercourse.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Petroleum pitch is normally stored at high temperatures. It can cause severe burns.

OTHER PRECAUTIONS: Avoid breathing vapors. Always wear protective equipment and clothing when handling hot petroleum pitch. Do not weld on containers unless they have been properly cleaned and purged using safe work practices.

SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use NIOSH/MSHA-approved respiratory protection in areas exceeding exposure limits, the type to be determined by the degree of exposure.

VENTILATION: Use in well-ventilated area. Mechanical exhaust should be explosion-proof.

EYE/SKIN PROTECTION: Full-face protection, heavy leather gloves if hot, and coveralls with long sleeves.

WORK/HYGIENIC PRACTICES: Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.

NOTICE: This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 111 FOR ADDITIONAL EMERGENCY INFORMATION.

This information is believed to be accurate and as reliable as information available to us. We make no warranty or guarantee as to its accuracy and assume no liability from its use. Users should determine the suitability of the information for their particular purposes.



MATERIAL SAFETY DATA SHEET

ASPHALT, ALL GRADES

SECTION 1 - PRODUCT and COMPANY IDENTIFICATION

MANUFACTURER:

NAVAJO REFINING COMPANY, LLC
PO BOX 159
ARTESIA, NM 88211-0159

CONTACT INFORMATION:

Main Telephone – (575) 748-3311
Safety Department – (575) 365-8364 (24 Hours)
Environmental Department – (575) 365-8365 (24 Hours)

EMERGENCY PHONE NUMBERS:

CHEMTREC: 1-800-424-9300 (for fire, spill and emergency response information)
New Mexico Poison Information Center: 1-800-432-6866
Texas (El Paso) Poison Information Center: (915) 533-1244
Arizona Poison Information Center: 1-800-362-0101 or (602) 253-3334

PRODUCT NAME: Asphalt, All Grades

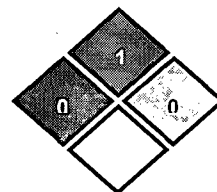
CAS NUMBER: 8052-42-4

CHEMICAL FAMILY: Hydrocarbon

FORMULA: N/A

SYNONYMS: UN 3257, Petroleum Pitch, 60-70, 85-100, 120-150, Road Tar,
AC-10, AC-20, AC-30, AC-40 PG 70-10, PG 70-16, PG 76-10,
PG 76-16, PG 76-22, PG 64-16, PG 64-22, PG 58-28, PG 58-22
Modified Asphalt, A0P

SHIPPING NAME: Elevated Temperature, NOS, 9, UN 3257, 111



NFPA 704 (SECTION 16)

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS			OSHA LIMITS (TWA)		NIOSH LIMITS (TWA)			ACGIH LIMITS (TWA)	
COMPONENTS	VOL %	CAS NO.	PEL	STEL	REL	STEL	IDLH	TLV	STEL
Asphalt Containing	100%	8052-42-4	NE	NE	5 mg/m ³ C	NE	NE	0.5 mg/m ³	NE
Hydrogen Sulfide	<0.1%	7783-06-4	10 ppm C*	50 ppm (Max)	10 ppm C	N/A	100 ppm	10 ppm	15 ppm

OTHER INGREDIENT INFORMATION: Asphalt is a complex mixture of paraffinic, aromatic, and naphthenic hydrocarbons. At high temperatures, petroleum asphalt fumes (CAS No. 8052-42-4) may be present.

NOTE: * NM OHSA limit (normally 20 ppm C). C designates Ceiling Value, which should not be exceeded at any time. (Max) designates 10-minute maximum peak value, which should not to be exceeded at any time. NE designates Not Established.

SECTION 3 - PHYSICAL DATA

BOILING POINT: >700°F

VAPOR PRESSURE: N/A

VAPOR DENSITY (AIR=1): N/A

SOLUBILITY IN WATER: Insoluble

ODOR THRESHOLD: N/A

APPEARANCE AND ODOR: Black solid at room temperature with no appreciable odor. Liquid at elevated temperatures with tar-like odor.

SPECIFIC GRAVITY (WATER=1): 1.0 - 1.1

% VOLATILE BY VOLUME: 0%

EVAPORATION RATE: N/A

AUTOIGNITION TEMP: 400-700°F

ASPHALT, ALL GRADES

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: Class IIIB, Combustible Liquid

FLASH POINT: >400°F (COC)

FLAMMABLE LIMITS: LEL = N/A UEL = N/A

EXTINGUISHING MEDIA: Dry chemical (Class B fire extinguisher), carbon dioxide (CO₂)

SPECIAL FIRE FIGHTING PROCEDURES: Move container from fire area, if possible. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Evacuate a radius of 1000 feet for uncontrolled fires. Water or foam may cause frothing and evolution of steam. Gases may accumulate from low boiling hydrocarbons and hydrogen sulfide. Iron sulfide may also accumulate.

NFPA FIRE = 1 (low)

SECTION 5 - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID/INCOMPATIBILITY: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, sulfur dioxide

NFPA REACTIVITY = 0 (minimal)

SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: At room temperature, asphalt is a solid. At elevated temperatures there may be inhalation of fumes or skin contact.

HEALTH HAZARDS: Dermatitis, eye, skin or lung irritation. Hot asphalt can cause severe burns. Exposure to over 600 ppm of hydrogen sulfide can be rapidly fatal.

CARCINOGENICITY: Asphalt is not listed by NTP or IARC.

SIGNS AND SYMPTOMS OF EXPOSURE: Skin irritation, irritation of nose and throat, burns from contact with hot asphalt.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Maintain respiration, assist with artificial respiration if needed, and give oxygen if available and trained to do so. Seek medical attention.

BURNS: Immediately cool skin by quenching with cold water. Cover with a sterile dressing and seek medical assistance.

NFPA HEALTH = 0 (minimal)

ASPHALT, ALL GRADES

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain spill. Allow to cool. Remove sources of ignition. Absorb using clay or earth and pick up with shovels or tractors. Place in appropriate waste containers.

WASTE DISPOSAL: Dispose in accordance with RCRA regulations. Do not put in sewers or any watercourse.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Asphalt is normally stored at high temperatures. It can cause severe burns.

OTHER PRECAUTIONS: Avoid breathing vapors. Always wear protective equipment and clothing when handling hot asphalt. Do not weld on containers unless they have been properly cleaned and purged using safe work practices.

SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use NIOSH/MSHA-approved respiratory protection in areas exceeding exposure limits, the type to be determined by the degree of exposure.

VENTILATION: Use in well-ventilated area. Mechanical exhaust should be explosion-proof.

EYE/SKIN PROTECTION: Full-face protection, heavy leather gloves if hot, and coveralls with long sleeves.

WORK/HYGIENIC PRACTICES: Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.

NOTICE: This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 111 FOR ADDITIONAL EMERGENCY INFORMATION.

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REFINING COMPANY, LLC

FAX

(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX

(505) 746-5419 ACCOUNTING
(505) 746-5451 ENV/PURCH/MKTG
(505) 746-5421 ENGINEERING

March 18, 2008

Mr. Wayne Price
Environmental Bureau Chief
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RECEIVED
2008 MAR 25 AM 7 32

**RE: DISCHARGE PERMIT (GW-028) K048 WASTE DISPOSAL
RESOLUTION NAVAJO REFINING COMPANY – ARTESIA REFINERY**

Dear Mr. Price,

Navajo Refining Company (Navajo) is in receipt of your letter of February 28, 2008 asking for certain documents and responses to the incident where Navajo sent Dissolved Air Float (DAF) to Artesia Aeration. We received this letter on March 3, 2008.

As you know, you informed Navajo by phone on February 6, 2008 that disposal of DAF at Artesia Aeration was in violation of our discharge permit. I immediately called our trucking company and other personnel and stopped any further shipment of the DAF to Artesia Aeration. Further, we had Artesia Aeration isolate the DAF that was on their site until plans could be made to remove the waste and take it to an approved OCD facility. Artesia Aeration built berms around the waste to isolate it.

Starting on February 13, 2008 and continuing through February 15, 2008, Navajo had 220 yards of material removed from Artesia Aeration and sent to Controlled Recovery, Inc. As your letter states, we had sent approximately 150 yards of DAF to Artesia Aeration. The extra 70 yards removed was to make sure we had gotten all the DAF material. I have included non hazardous waste manifests that document the eleven (11) loads of material removed.

I feel confident that this response will put this issue to rest. I've enclosed a simple waste management plan that you had asked for. If there are any questions concerning this

submittal, please call me at 575-746-5281 or e mail me at darrell.moore@navajo-refining.com.

Sincerely,
NAVAJO REFINING COMPANY, LLC

A handwritten signature in black ink that reads "Darrell Moore". The signature is written in a cursive, flowing style.

Darrell Moore
Environmental Manager for Water and Waste

Encl.

WASTE MANAGEMENT PLAN DISSOLVED AIR FLOAT

At this time, Navajo Refining Company's waste management plan for Dissolved Air Flotation (DAF) is as follows:

- 1) As per Discharge Plan GW-28, DAF is only approved to be disposed at Controlled Recovery, Inc.**
- 2) In the event that Navajo wishes to dispose DAF at another facility, Navajo will provide OCD-Santa Fe a completed Form C-138 with the name and location of the new potential facility along with any analytical and documentation that would be appropriate.**
- 3) Only after OCD-Santa Fe approves Form C-138 and the new facility can DAF be disposed at that facility.**
- 4) Finally, TCLP samples of the DAF will be collected semi-annually and those results forwarded to OCD-Santa Fe and NMED to insure that the DAF continues to be characteristically non-hazardous.**

NON-HAZARDOUS WASTE MANIFEST

No 18528

PART I: Generator Navajo Refining Co.
 Address PO Box 159
 City/State Artesia, NM 88211-0159

(505) 748-3311
 Telephone No.

ORGINATION OF WASTE:

Operations Center ~~AA~~ AA

Permit No. NMD048918617

Property Name _____
 (Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)			
Drilling Fluids _____	Tank Bottoms _____	Exempt Fluids _____	
Completion Fluids _____	Gas Plant Waste _____	C117 No. _____	
Contaminated Soil _____	Other Materials _____	Pit No. _____	
DESCRIPTION / NOTES			
DAF <u>20yds</u>			
<u>20</u>			

CERTIFICATION:

The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Carrie Hummer
 Signature of Generator's Authorized Agent

2-13-08
 Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name SBrothers
 Address _____
 City/State _____

Telephone No. _____

Truck No. _____

CERTIFICATION:

I certify that the waste in quantity above was received by me for shipment to the destination below.

[Signature]
 Signature of Transporter's Agent

2-13-08
 Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
 Address P.O. Box 388
 City/State Hobbs, N.M. 88241-0388

(505) 393-1079
 Telephone No.

www.crihobbs.com
 E-mail

CERTIFICATION:

I certify that the waste described in Part I was received by me via the transporter described in Part II.

[Signature]
 Signature of Facility Agent

2-13-08
 Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

No 18529

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159

(505) 746-3311
Telephone No.

ORIGINATION OF WASTE:

Operations Center ~~Artesia~~ AA

Permit No. NMD048918817

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)		
Drilling Fluids _____	Tank Bottoms _____	Exempt Fluids _____
Completion Fluids _____	Gas Plant Waste _____	C117 No. _____
Contaminated Soil _____	Other Materials _____	Pit No. _____
DESCRIPTION / NOTES		
DAF <u>20 yds</u>		
<u>20</u>		

CERTIFICATION:

The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Gene Hernandez
Signature of Generator's Authorized Agent

2-14-08
Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
Address _____
City/State _____

Telephone No. _____

Truck No. _____

CERTIFICATION:

I certify that the waste in quantity above was received by me for shipment to the destination below.

Ch...
Signature of Transporter's Agent

2-14-08
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
Address P.O. Box 388
City/State Hobbs, N.M. 88241-0388

(505) 393-1079
Telephone No.

www.crihobbs.com

E-mail

CERTIFICATION:

I certify that the waste described in Part I was received by me via the transporter described in Part II.

...
Signature of Facility Agent

2-14-08
Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

No 18530

PART I: Generator Navajo Refining Co.
 Address PO Box 159
 City/State Artesia, NM 88211-0159

(505) 748-3311
 Telephone No.

ORIGINATION OF WASTE:

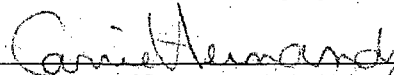
Operations Center ~~Artesia~~ AA

Permit No. NMD048918817

Property Name _____
 (Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids	_____	Tank Bottoms	_____	Exempt Fluids	_____
Completion Fluids	_____	Gas Plant Waste	_____	C117 No.	_____
Contaminated Soil	_____	Other Materials	_____	Pit No.	_____
DESCRIPTION / NOTES					
DAF <u>20 yds</u>					
<u>20</u>					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.


 Signature of Generator's Authorized Agent

2-14-08
 Date and Time of Shipment

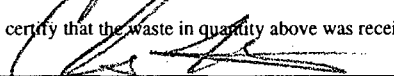
PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
 Address _____
 City/State _____

Telephone No. _____

Truck No. _____

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.


 Signature of Transporter's Agent

2-14-08
 Date and Time Received

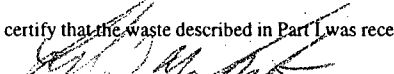
PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
 Address P.O. Box 388
 City/State Hobbs, N.M. 88241-0388

(505) 393-1079
 Telephone No.

www.crihobbs.com
 E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.


 Signature of Facility Agent

2-14-08
 Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

№ 18531

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159

(505) 748-3311

Telephone No.

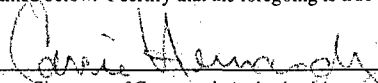
ORIGIN OF WASTE:

Operations Center ~~Artesia~~ AAPermit No. NMD048918817Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)		
Drilling Fluids _____	Tank Bottoms _____	Exempt Fluids _____
Completion Fluids _____	Gas Plant Waste _____	C117 No. _____
Contaminated Soil _____	Other Materials _____	Pit No. _____
DESCRIPTION / NOTES		
DAF <u>20yds</u>		
<u>20</u>		

CERTIFICATION:

The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.


Signature of Generator's Authorized Agent

2-13-08

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

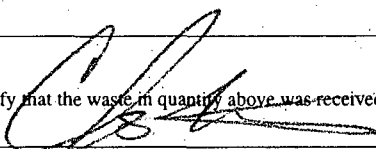
Name SBrothers
Address _____
City/State _____

Telephone No. _____

Truck No. _____

CERTIFICATION:

I certify that the waste in quantity above was received by me for shipment to the destination below.


Signature of Transporter's Agent

2-13-08

Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
Address P.O. Box 388
City/State Hobbs, N.M. 88241-0388

(505) 393-1079

Telephone No.

www.crihobbs.com

E-mail

CERTIFICATION:

I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

2-13-08
Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

№ 18532

PART I: Generator Navajo Refining Co.
Address PO Box 159
City/State Artesia, NM 88211-0159

(505) 748-3311
Telephone No.

ORIGIN OF WASTE:

Operations Center ~~Artesia~~ AA

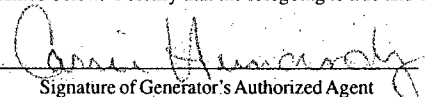
Permit No. NM0048918817

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)		
Drilling Fluids _____	Tank Bottoms _____	Exempt Fluids _____
Completion Fluids _____	Gas Plant Waste _____	C117 No. _____
Contaminated Soil _____	Other Materials _____	Pit No. _____
DESCRIPTION / NOTES		
DAF <u>20yds</u>		
<u>20</u>		

CERTIFICATION:

The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.


Signature of Generator's Authorized Agent

2-13-08
Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

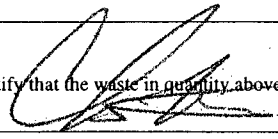
Name S Brothers
Address _____
City/State _____

Telephone No. _____

Truck No. _____

CERTIFICATION:

I certify that the waste in quantity above was received by me for shipment to the destination below.


Signature of Transporter's Agent

2-13-08
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

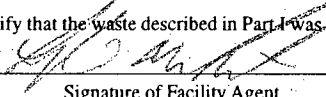
Name Controlled Recovery, Inc.
Address P.O. Box 388
City/State Hobbs, N.M. 88241-0388

(505) 393-1079
Telephone No.

www.crihobbs.com
E-mail

CERTIFICATION:

I certify that the waste described in Part I was received by me via the transporter described in Part II.


Signature of Facility Agent

2-13-08
Date and Time Received

No 18594

(575-748-3311)
Telephone No.

Permit No. NMD048918817

2-14-08
Date and Time of Shipment

Truck No. _____

2-14-08
Date and Time Received

E-mail

2-14-08
Date and Time Received

№ 18595

(575-748-3311
Telephone No.

Permit No. NMD048918817

Part II.
7-14-08
Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

No 18580

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159

(575-748-3311

Telephone No.

ORIGIN OF WASTE:

Operations Center ~~Artesia~~ AAPermit No. NMD048918817

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)

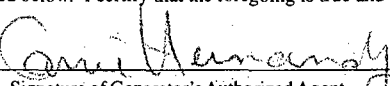
Drilling Fluids	_____	Tank Bottoms	_____	Exempt Fluids	_____
Completion Fluids	_____	Gas Plant Waste	_____	C117 No.	_____
Contaminated Soil	_____	Other Materials	_____	Pit No.	_____

DESCRIPTION / NOTES

~~Drilling Fluids~~ 20 yds
DAF 20

CERTIFICATION:

The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.


Signature of Generator's Authorized Agent

2-15-08
Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

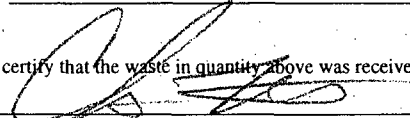
Name S Brothers
Address _____
City/State _____

Telephone No. _____

Truck No. _____

CERTIFICATION:

I certify that the waste in quantity above was received by me for shipment to the destination below.


Signature of Transporter's Agent

2-15-08
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
Address P.O. Box 388
City/State Hobbs, N.M. 88241-0388

(505) 393-1079

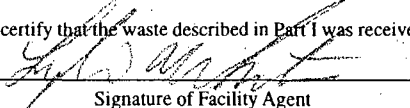
Telephone No.

www.crihobbs.com

E-mail

CERTIFICATION:

I certify that the waste described in Part I was received by me via the transporter described in Part II.


Signature of Facility Agent

2-15-08
Date and Time Received

No. 18581

(575-748)-3311

Telephone No.

Permit No. NMD048918817

Date and Time of Shipment

Truck No.

Date and Time Received

(505) 393-1079
Telephone No.
www.crihobbs.com
E-mail

Date and Time Received

No 18584

(575-748) - 3311
Telephone No.

Operations Center ~~Scada~~ AA

Property Name _____
(Well, Tank Battery, Plant, Facility)

Permit No. NMD048918817

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

2-15-08
Date and Time of Shipment

Name S Brothers
Address _____
City/State CA

Telephone No. _____

Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

2-15-08
Date and Time Received

Name	Controlled Recovery, Inc.
Address	P.O. Box 388
City/State	Hobbs, N.M. 88241-0388

(505) 393-1079

Telephone No. _____

www.crihobbs.com

E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

I certify that the waste described in Part I was received

 Signature of Facility Agent

2-15-08
Date and Time Received

No. 18582

(575-748-3311)
Telephone No.

Permit No. NMD048918817

2-15-08
Date and Time of Shipment

Truck No. _____

2-15-08
Date and Time Received

(505) 393-1079
Telephone No.
www.crihobbs.com
E-mail

2-15-08
Date and Time Received



REFINING COMPANY, LLC

FAX

(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311
March 10, 2008

FAX

(505) 746-5419 ACCOUNTING
(505) 746-5451 ENV/PURCH/MKTG
(505) 746-5421 ENGINEERING

COPY

Ms. Hope Monzeglio
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Drive East, Bldg 1
Santa Fe, NM 87505-6303

**RE: DISSOLVED AIR FLOTATION ANALYTICAL DATA
NAVAJO REFINING COMPANY, ARTESIA REFINERY
EPA ID# NMD048918817
HWB-NRC-MISC**

Dear Ms. Monzeglio,

Enclosed, please find Navajo Refining Company's analytical data for our Dissolved Air Flotation (DAF). While we did the first two quarterly sampling events, the semi-annual sampling has not been done on a regular basis. We do have samples at various times and those are included. We have put this sampling on our schedule and will do the semi-annual sampling in February and August of every year. The latest samples are also included which were analysed in August 2007 and February 2008. In all instances, the DAF has proven to be characteristically non-hazardous.

If there are any questions concerning this submission, please contact me at 575-746-5281.

Sincerely,
NAVAJO REFINING COMPANY, LLC

Darrell Moore
Environmental Manager for Water and Waste

Encl.

Cc: Wayne Price, OCD

RECEIVED
2008 MAR 11 PM 1 42

e-Lab Analytical, Inc.

Date: February 27, 2008

Client: Navajo Refining Company

Project: Disposal

Sample ID: DAF

Collection Date: 2/13/2008 2:40:00 PM

Work Order: 0802275

Lab ID: 0802275-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS, ICP						
			SW1311/6020		Prep Date: 2/19/2008	Analyst: ALR
Arsenic	0.0515		0.0500	mg/L	10	2/20/2008 2:07:00 AM
Barium	0.153		0.0500	mg/L	10	2/20/2008 2:07:00 AM
Cadmium	ND		0.0500	mg/L	10	2/20/2008 2:07:00 AM
Chromium	ND		0.0500	mg/L	10	2/20/2008 2:07:00 AM
Lead	ND		0.0500	mg/L	10	2/20/2008 2:07:00 AM
Selenium	0.261		0.0500	mg/L	10	2/20/2008 2:07:00 AM
Silver	ND		0.0500	mg/L	10	2/20/2008 2:07:00 AM
TCLP SEMIVOLATILES						
			SW1311/8270		Prep Date: 2/19/2008	Analyst: ACN
2,4,5-Trichlorophenol	ND		5.0	µg/L	1	2/20/2008 10:24:00 AM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	2/20/2008 10:24:00 AM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	2/20/2008 10:24:00 AM
Cresols, Total	ND		30	µg/L	1	2/20/2008 10:24:00 AM
Hexachlorobenzene	ND		5.0	µg/L	1	2/20/2008 10:24:00 AM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/20/2008 10:24:00 AM
Hexachloroethane	ND		5.0	µg/L	1	2/20/2008 10:24:00 AM
Nitrobenzene	ND		5.0	µg/L	1	2/20/2008 10:24:00 AM
Pentachlorophenol	ND		5.0	µg/L	1	2/20/2008 10:24:00 AM
Pyridine	ND		5.0	µg/L	1	2/20/2008 10:24:00 AM
Surr: 2,4,6-Tribromophenol	57.1		42-124	%REC	1	2/20/2008 10:24:00 AM
Surr: 2-Fluorobiphenyl	69.0		48-120	%REC	1	2/20/2008 10:24:00 AM
Surr: 2-Fluorophenol	59.0		20-120	%REC	1	2/20/2008 10:24:00 AM
Surr: 4-Terphenyl-d14	69.7		51-135	%REC	1	2/20/2008 10:24:00 AM
Surr: Nitrobenzene-d5	61.0		41-120	%REC	1	2/20/2008 10:24:00 AM
Surr: Phenol-d6	63.4		20-120	%REC	1	2/20/2008 10:24:00 AM
TCLP VOLATILES						
			SW1311/8260B		Prep Date: 2/18/2008	Analyst: PC
1,1-Dichloroethene	ND		100	µg/L	20	2/19/2008 11:07:00 PM
1,2-Dichloroethane	ND		100	µg/L	20	2/19/2008 11:07:00 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	2/19/2008 11:07:00 PM
2-Butanone	ND		200	µg/L	20	2/19/2008 11:07:00 PM
Benzene	ND		100	µg/L	20	2/19/2008 11:07:00 PM
Carbon tetrachloride	ND		100	µg/L	20	2/19/2008 11:07:00 PM
Chlorobenzene	ND		100	µg/L	20	2/19/2008 11:07:00 PM
Chloroform	ND		100	µg/L	20	2/19/2008 11:07:00 PM
Tetrachloroethene	ND		100	µg/L	20	2/19/2008 11:07:00 PM
Trichloroethene	ND		100	µg/L	20	2/19/2008 11:07:00 PM
Vinyl chloride	ND		100	µg/L	20	2/19/2008 11:07:00 PM
Surr: 1,2-Dichloroethane-d4	105		70-125	%REC	20	2/19/2008 11:07:00 PM
Surr: 4-Bromofluorobenzene	96.6		72-125	%REC	20	2/19/2008 11:07:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: February 27, 2008

Client: Navajo Refining Company

Project: Disposal

Work Order: 0802275

Sample ID: DAF

Lab ID: 0802275-01

Collection Date: 2/13/2008 2:40:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Dibromofluoromethane	109		71-125	%REC	20	2/19/2008 11:07:00 PM
Surr: Toluene-d8	102		75-125	%REC	20	2/19/2008 11:07:00 PM
CYANIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Cyanide	ND		40.0	mg/Kg	1	2/21/2008
SULFIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Sulfide	ND		40.0	mg/Kg	1	2/21/2008
IGNITABILITY FOR SOLIDS			SW846, CHPT. 7.1.2			Analyst: MAM
Burns vigorously and persistently	No				1	2/18/2008 10:30:00 AM
Ignites spontaneously	No				1	2/18/2008 10:30:00 AM
Ignites through friction	No				1	2/18/2008 10:30:00 AM
Ignites under std. temp and pressure	No				1	2/18/2008 10:30:00 AM
Ignites with moisture	No				1	2/18/2008 10:30:00 AM
PAINT FILTER TEST			SW9095A			Analyst: KKP
Free Liquid	Positive			Pos/Neg	1	2/18/2008 10:00:00 AM
PH IN SOLID			SW9045B			Analyst: MAM
pH	7.28		0.100	pH Units	1	2/18/2008 12:00:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Feb 27 2008

CLIENT: Navajo Refining Company

QC BATCH REPORT

Work Order: 0802275

Project: Disposal

Batch ID: 28291

Instrument ID ICPMS03

Method: SW1311/6020

MBLK Sample ID: MBLKT1-021808 Units: mg/L Analysis Date: 02/20/08 0:11

Client ID: Run ID: ICPMS03_080219A SeqNo: 1330739 Prep Date: 2/19/2008 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

MBLK Sample ID: MBLKW2-021908 Units: mg/L Analysis Date: 02/20/08 0:16

Client ID: Run ID: ICPMS03_080219A SeqNo: 1330740 Prep Date: 2/19/2008 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

LCS Sample ID: MLCSW2-021908 Units: mg/L Analysis Date: 02/20/08 0:22

Client ID: Run ID: ICPMS03_080219A SeqNo: 1330742 Prep Date: 2/19/2008 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1909	0.050	0.2	0	95.4	80-120	0			
Barium	0.184	0.050	0.2	0	92	80-120	0			
Cadmium	0.1927	0.050	0.2	0	96.4	80-120	0			
Chromium	0.1798	0.050	0.2	0	89.9	80-120	0			
Lead	0.1907	0.050	0.2	0	95.4	80-120	0			
Selenium	0.1782	0.050	0.2	0	89.1	80-120	0			
Silver	0.1913	0.050	0.2	0	95.6	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0802275
Project: Disposal

QC BATCH REPORT

Batch ID: 28291 Instrument ID ICPMS03 Method: SW1311/6020

MS Sample ID: 0802025-18AMS Units: mg/L Analysis Date: 02/20/08 0:45

Client ID: Run ID: ICPMS03_080219A SeqNo: 1330748 Prep Date: 2/19/2008 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.426	0.050	0.2	6.277	74.5	75-125	0			SO
Barium	1.639	0.050	0.2	1.451	94	75-125	0			O
Cadmium	0.1983	0.050	0.2	0.0004326	98.9	75-125	0			
Chromium	0.1974	0.050	0.2	0.008492	94.5	75-125	0			
Lead	0.1998	0.050	0.2	0.001678	99.1	75-125	0			
Selenium	0.1962	0.050	0.2	0.00004895	98.1	75-125	0			
Silver	0.186	0.050	0.2	0.0002297	92.9	75-125	0			

MSD Sample ID: 0802025-18AMS Units: mg/L Analysis Date: 02/20/08 0:51

Client ID: Run ID: ICPMS03_080219A SeqNo: 1330749 Prep Date: 2/19/2008 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.354	0.050	0.2	6.277	38.5	75-125	6.426	1.13	25	SO
Barium	1.658	0.050	0.2	1.451	104	75-125	1.639	1.15	25	O
Cadmium	0.2021	0.050	0.2	0.0004326	101	75-125	0.1983	1.9	25	
Chromium	0.1926	0.050	0.2	0.008492	92.1	75-125	0.1974	2.46	25	
Lead	0.1965	0.050	0.2	0.001678	97.4	75-125	0.1998	1.67	25	
Selenium	0.2017	0.050	0.2	0.00004895	101	75-125	0.1962	2.76	25	
Silver	0.1872	0.050	0.2	0.0002297	93.5	75-125	0.186	0.643	25	

DUP Sample ID: 0802025-18ADUP Units: mg/L Analysis Date: 02/20/08 0:34

Client ID: Run ID: ICPMS03_080219A SeqNo: 1330745 Prep Date: 2/19/2008 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.274	0.050	0	0	0	0-0	6.277	0.0478	25	
Barium	1.464	0.050	0	0	0	0-0	1.451	0.892	25	
Cadmium	ND	0.050	0	0	0	0-0	0.0004326	0	25	
Chromium	0.007859	0.050	0	0	0	0-0	0.008492	0	25	J
Lead	ND	0.050	0	0	0	0-0	0.001678	0	25	
Selenium	ND	0.050	0	0	0	0-0	0.00004895	0	25	
Silver	ND	0.050	0	0	0	0-0	0.0002297	0	25	

The following samples were analyzed in this batch: 0802275-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0802275
Project: Disposal

QC BATCH REPORT

Batch ID: 28302 Instrument ID SV-5 Method: SW1311/8270

MBLK Sample ID: SBLKT1-080219 Units: µg/L Analysis Date: 02/20/08 8:44

Client ID: Run ID: SV-5_080220A SeqNo: 1330854 Prep Date: 2/19/2008 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Cresols, Total	ND	30								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	5.0								
Hexachloroethane	ND	5.0								
Nitrobenzene	ND	5.0								
Pentachlorophenol	ND	5.0								
Pyridine	ND	5.0								
Surr: 2,4,6-Tribromophenol	54.55	5.0	100	0	54.5	42-124	0			
Surr: 2-Fluorobiphenyl	69.37	5.0	100	0	69.4	48-120	0			
Surr: 2-Fluorophenol	57.04	5.0	100	0	57	20-120	0			
Surr: 4-Terphenyl-d14	69.12	5.0	100	0	69.1	51-135	0			
Surr: Nitrobenzene-d5	59.87	5.0	100	0	59.9	41-120	0			
Surr: Phenol-d6	58.63	5.0	100	0	58.6	20-120	0			

LCS Sample ID: SLCST1-080219 Units: µg/L Analysis Date: 02/20/08 9:09

Client ID: Run ID: SV-5_080220A SeqNo: 1330855 Prep Date: 2/19/2008 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	74.55	5.0	100	0	74.5	52-115	0			
2,4,6-Trichlorophenol	74.18	5.0	100	0	74.2	53-115	0			
2,4-Dinitrotoluene	33.56	5.0	50	0	67.1	56-115	0			
Cresols, Total	181.1	30	250	0	72.5	35-115	0			
Hexachlorobenzene	37.64	5.0	50	0	75.3	54-115	0			
Hexachlorobutadiene	36.72	5.0	50	0	73.4	51-115	0			
Hexachloroethane	36.03	5.0	50	0	72.1	54-115	0			
Nitrobenzene	34.28	5.0	50	0	68.6	40-124	0			
Pentachlorophenol	69.65	5.0	100	0	69.7	45-125	0			
Pyridine	30.63	5.0	50	0	61.3	34-115	0			
Surr: 2,4,6-Tribromophenol	60.67	5.0	100	0	60.7	42-124	0			
Surr: 2-Fluorobiphenyl	71.77	5.0	100	0	71.8	48-120	0			
Surr: 2-Fluorophenol	64.65	5.0	100	0	64.7	20-120	0			
Surr: 4-Terphenyl-d14	69.96	5.0	100	0	70	51-135	0			
Surr: Nitrobenzene-d5	62.83	5.0	100	0	62.8	41-120	0			
Surr: Phenol-d6	68.26	5.0	100	0	68.3	20-120	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0802275
Project: Disposal

QC BATCH REPORT

Batch ID: 28302 Instrument ID SV-5 Method: SW1311/8270

LCSD Sample ID: SLCSDT1-080219 Units: µg/L Analysis Date: 02/20/08 9:34

Client ID: Run ID: SV-5_080220A SeqNo: 1330856 Prep Date: 2/19/2008 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	87.57	5.0	100	0	87.6	52-115	74.55	16.1	25	
2,4,6-Trichlorophenol	81.29	5.0	100	0	81.3	53-115	74.18	9.15	25	
2,4-Dinitrotoluene	37.99	5.0	50	0	76	56-115	33.56	12.4	25	
Cresols, Total	196.5	30	250	0	78.6	35-115	181.1	8.12	25	
Hexachlorobenzene	40.91	5.0	50	0	81.8	54-115	37.64	8.33	25	
Hexachlorobutadiene	40.47	5.0	50	0	80.9	51-115	36.72	9.7	25	
Hexachloroethane	37.78	5.0	50	0	75.6	54-115	36.03	4.75	25	
Nitrobenzene	37.85	5.0	50	0	75.7	40-124	34.28	9.91	25	
Pentachlorophenol	76.28	5.0	100	0	76.3	45-125	69.65	9.08	25	
Pyridine	33.35	5.0	50	0	66.7	34-115	30.63	8.49	25	
Surr: 2,4,6-Tribromophenol	61.99	5.0	100	0	62	42-124	60.67	2.14	25	
Surr: 2-Fluorobiphenyl	73.85	5.0	100	0	73.9	48-120	71.77	2.86	25	
Surr: 2-Fluorophenol	64.73	5.0	100	0	64.7	20-120	64.65	0.12	25	
Surr: 4-Terphenyl-d14	71.7	5.0	100	0	71.7	51-135	69.96	2.46	25	
Surr: Nitrobenzene-d5	66.03	5.0	100	0	66	41-120	62.83	4.97	25	
Surr: Phenol-d6	69.32	5.0	100	0	69.3	20-120	68.26	1.54	25	

The following samples were analyzed in this batch:

0802275-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0802275
Project: Disposal

QC BATCH REPORT

Batch ID: **R60107** Instrument ID **VOA1** Method: **SW1311/8260**

MBLK Sample ID: **VBLKW-021908** Units: **µg/L** Analysis Date: **02/19/08 16:48**

Client ID: Run ID: **VOA1_080219B** SeqNo: **1331140** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachloroethene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	42.55	5.0	50	0	85.1	70-125	0			
Surr: 4-Bromofluorobenzene	50.27	5.0	50	0	101	72.4-125	0			
Surr: Dibromofluoromethane	46.63	5.0	50	0	93.3	71.2-125	0			
Surr: Toluene-d8	52.61	5.0	50	0	105	75-125	0			

MBLK Sample ID: **VBLTK1-021808** Units: **µg/L** Analysis Date: **02/19/08 21:26**

Client ID: Run ID: **VOA1_080219B** SeqNo: **1331144** Prep Date: **2/18/2008** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	1010	100	1000	0	101	70-125	0			
Surr: 4-Bromofluorobenzene	1038	100	1000	0	104	72.4-125	0			
Surr: Dibromofluoromethane	1037	100	1000	0	104	71.2-125	0			
Surr: Toluene-d8	1063	100	1000	0	106	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0802275
Project: Disposal

QC BATCH REPORT

Batch ID: **R60107** Instrument ID **VOA1** Method: **SW1311/8260**

LCS Sample ID: **VLCSW-021908** Units: **µg/L** Analysis Date: **02/19/08 15:58**

Client ID: Run ID: **VOA1_080219B** SeqNo: **1331139** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	53.45	5.0	50	0	107	73-124	0			
1,2-Dichloroethane	49.86	5.0	50	0	99.7	76-120	0			
1,4-Dichlorobenzene	50.48	5.0	50	0	101	70-130	0			
2-Butanone	102.6	10	100	0	103	70-130	0			
Benzene	50.47	5.0	50	0	101	70-128	0			
Carbon tetrachloride	52.32	5.0	50	0	105	70-130	0			
Chlorobenzene	50.04	5.0	50	0	100	72-127	0			
Chloroform	50.67	5.0	50	0	101	70-130	0			
Tetrachloroethene	51.94	5.0	50	0	104	70-130	0			
Trichloroethene	52.56	5.0	50	0	105	72-129	0			
Vinyl chloride	49.87	5.0	50	0	99.7	70-130	0			
Surr: 1,2-Dichloroethane-d4	48.91	5.0	50	0	97.8	70-125	0			
Surr: 4-Bromofluorobenzene	51.53	5.0	50	0	103	72-125	0			
Surr: Dibromofluoromethane	51.06	5.0	50	0	102	71-125	0			
Surr: Toluene-d8	53.35	5.0	50	0	107	75-125	0			

MS Sample ID: **0802269-01AMS** Units: **µg/L** Analysis Date: **02/19/08 18:55**

Client ID: Run ID: **VOA1_080219B** SeqNo: **1331142** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	49.23	5.0	50	0	98.5	73-124	0			
1,2-Dichloroethane	53.53	5.0	50	0	107	76-120	0			
1,4-Dichlorobenzene	48.63	5.0	50	0	97.3	70-130	0			
2-Butanone	114.2	10	100	0	114	70-130	0			
Benzene	50.38	5.0	50	0	101	70-128	0			
Carbon tetrachloride	47.01	5.0	50	0	94	70-130	0			
Chlorobenzene	48.2	5.0	50	0	96.4	72-127	0			
Chloroform	50.8	5.0	50	0	102	70-130	0			
Tetrachloroethene	45.12	5.0	50	0	90.2	70-130	0			
Trichloroethene	50.03	5.0	50	0	100	72-129	0			
Vinyl chloride	49.93	5.0	50	0	99.9	70-130	0			
Surr: 1,2-Dichloroethane-d4	51.07	5.0	50	0	102	70-125	0			
Surr: 4-Bromofluorobenzene	50.36	5.0	50	0	101	72-125	0			
Surr: Dibromofluoromethane	52.82	5.0	50	0	106	71-125	0			
Surr: Toluene-d8	52.26	5.0	50	0	105	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0802275
Project: Disposal

QC BATCH REPORT

Batch ID: **R60107** Instrument ID **VOA1** Method: **SW1311/8260**

MSD Sample ID: **0802269-01AMSD** Units: **µg/L** Analysis Date: **02/19/08 19:20**

Client ID: Run ID: **VOA1_080219B** SeqNo: **1331143** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	44.14	5.0	50	0	88.3	73-124	49.23	10.9	20	
1,2-Dichloroethane	50.62	5.0	50	0	101	76-120	53.53	5.59	20	
1,4-Dichlorobenzene	47.39	5.0	50	0	94.8	70-130	48.63	2.58	20	
2-Butanone	106.7	10	100	0	107	70-130	114.2	6.77	20	
Benzene	45.34	5.0	50	0	90.7	70-128	50.38	10.5	20	
Carbon tetrachloride	43.39	5.0	50	0	86.8	70-130	47.01	8.01	20	
Chlorobenzene	48.76	5.0	50	0	97.5	72-127	48.2	1.17	20	
Chloroform	49.56	5.0	50	0	99.1	70-130	50.8	2.47	20	
Tetrachloroethene	44.55	5.0	50	0	89.1	70-130	45.12	1.27	20	
Trichloroethene	48.36	5.0	50	0	96.7	72-129	50.03	3.38	20	
Vinyl chloride	46.78	5.0	50	0	93.6	70-130	49.93	6.53	20	
Surr: 1,2-Dichloroethane-d4	48.61	5.0	50	0	97.2	70-125	51.07	4.94	20	
Surr: 4-Bromofluorobenzene	53.47	5.0	50	0	107	72-125	50.36	5.99	20	
Surr: Dibromofluoromethane	50.82	5.0	50	0	102	71-125	52.82	3.87	20	
Surr: Toluene-d8	54.51	5.0	50	0	109	75-125	52.26	4.22	20	

The following samples were analyzed in this batch:

0802275-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0802275
Project: Disposal

QC BATCH REPORT

Batch ID: **R60007** Instrument ID **WetChem** Method: **SW846, Chpt.**

DUP Sample ID: **0802274-01ADUP** Units: Analysis Date: **02/18/08 10:30**

Client ID: Run ID: **WETCHEM_080218A** SeqNo: **1329144** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Burns vigorously and persistently	ND	0	0	0	0	0-0	0	0	0	
Ignites spontaneously	ND	0	0	0	0	0-0	0	0	0	
Ignites through friction	ND	0	0	0	0	0-0	0	0	0	
Ignites under std. temp and pressur	ND	0	0	0	0	0-0	0	0	0	
Ignites with moisture	ND	0	0	0	0	0-0	0	0	0	

The following samples were analyzed in this batch:

0802275-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0802275
Project: Disposal

QC BATCH REPORT

Batch ID: **R60011** Instrument ID **WetChem** Method: **SW9045B**

LCS Sample ID: **WLCSS1-021808** Units: **pH Units** Analysis Date: **02/18/08 12:00**

Client ID: Run ID: **WETCHEM_080218B** SeqNo: **1329236** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.01	0.10	6	0	100	90-110		0		

DUP Sample ID: **0802302-01ADUP** Units: **pH Units** Analysis Date: **02/18/08 12:00**

Client ID: Run ID: **WETCHEM_080218B** SeqNo: **1329242** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.96	0.10	0	0	0	0-0	7.92	0.504	20	

The following samples were analyzed in this batch:

0802275-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0802275
Project: Disposal

QC BATCH REPORT

Batch ID: R60035 Instrument ID WetChem Method: SW9095A (Dissolve)

DUP Sample ID: 0802275-01ADUP Units: Pos/Neg Analysis Date: 02/18/08 10:00

Client ID: DAF Run ID: WETCHEM_080218F SeqNo: 1329814 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Free Liquid	ND	0	0	0	0		0	0	100	

The following samples were analyzed in this batch:

0802275-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

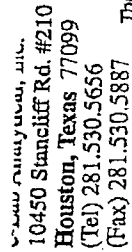
R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



Chain of Custody Form

c-Lab Analytical, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185



The Chain of Custody is a Legal Document. All information must be completed accurately.

[illegible]

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 2/14/2008 9:20:00 AM

Work Order Number 0802275

Received by: RNG

Checklist completed by

Paterina Dathorne 2-14-08
Signature Date

Reviewed by

gr 2/15/08
Initials Date

Matrix:

S

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
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 ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>2.4C</u>	<u>002</u>	
Cooler(s)/Kit(s):	<u>1562</u>		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒

Adjusted?

Checked by

Login Notes:

Client contacted:

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

0802275



e-Lab Analytical, Inc.

10450 Stancilff Rd., Suite 210
Houston, Texas 77099
Tel. 281.530.5656
Fax. 218.530.5887

CUSTOMER

Date: 2/13/08
Name: Agroh Sti
Company: NAVALIO

BY SEAL

Time: 1615
Date: 2/14/08

Seal Broken By: RMC
Date: 2/14/08

e-Lab Analytical, Inc*Date: February 26, 2008*

Client: ALS e-Lab Analytical, Inc
Project: 0802275
Work Order: 0802262

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0802262-01	0802275-02A	Soil		2/13/2008 14:40	2/15/2008 09:50	☐

e-Lab Analytical, Inc

Date: February 26, 2008

Client: ALS e-Lab Analytical, Inc

Project: 0802275

Work Order: 0802262

Sample ID: 0802275-02A

Lab ID: 0802262-01

Collection Date: 2/13/2008 2:40:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE			EPA 7.3.3.2			Analyst: DB
Cyanide, Reactive	ND		40.0	mg/Kg	1	2/21/2008
SULFIDE, REACTIVE			EPA 7.3.4.2			Analyst: DB
Sulfide, Reactive	ND		40.0	mg/Kg	1	2/21/2008

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc

Date: Feb 26 2008

CLIENT: ALS e-Lab Analytical, Inc
Work Order: 0802262
Project: 0802275

QC BATCH REPORT

Batch ID: R56560 Instrument ID WETCHEM Method: EPA 7.3.4.2

MBLK	Sample ID: WBLKW1-022108	Units: mg/Kg	Analysis Date: 02/21/08 0:00							
Client ID:	Run ID: WETCHEM_080221G	SeqNo: 929923	Prep Date: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch:

0802262-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: ALS e-Lab Analytical, Inc
Work Order: 0802262
Project: 0802275

QC BATCH REPORT

Batch ID: **R56564** Instrument ID **WETCHEM** Method: **EPA 7.3.3.2**

MBLK Sample ID: **MB-R56564** Units: **mg/Kg** Analysis Date: **02/21/08 0:00**

Client ID: Run ID: **WETCHEM_080221J** SeqNo: **929957** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	40								

LCS Sample ID: **LCS-R56564** Units: **mg/Kg** Analysis Date: **02/21/08 0:00**

Client ID: Run ID: **WETCHEM_080221J** SeqNo: **929958** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	190.8	40	250	0	76.3	75-125	0			

LCSD Sample ID: **LCSD-R56564** Units: **mg/Kg** Analysis Date: **02/21/08 0:00**

Client ID: Run ID: **WETCHEM_080221J** SeqNo: **929964** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	190.8	40	250	0	76.3	75-125	190.8	0	35	

MS Sample ID: **0802260-01A MS** Units: **mg/Kg** Analysis Date: **02/21/08 0:00**

Client ID: Run ID: **WETCHEM_080221J** SeqNo: **929965** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	14.68	88.1	50-150	0			

MSD Sample ID: **0802260-01A MSD** Units: **mg/Kg** Analysis Date: **02/21/08 0:00**

Client ID: Run ID: **WETCHEM_080221J** SeqNo: **929966** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	14.68	88.1	50-150	234.9	0	35	

The following samples were analyzed in this batch:

0802262-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

0802262

CHAIN-OF-CUSTODY RECORD

Subcontractor:
e-Lab Analytical, Inc.
3352 128th Ave.
Holland, MI 49424

TEL: (616) 399-6070
FAX: (616) 399-6185
Acct #:

Date: Feb 14, 2008
COC ID: 6021
Due Date: 2/26/2008

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	Project Name	Project Number	Project Name	A	B	C	D	E	F	G	H	I	J		
Work Order			0802275	Cyanide, Reactive (SW-846)											
Company Name	e-Lab Analytical, Inc.	Bill To Company	e-Lab Analytical, Inc.	Sulfide, Reactive (SW-846)											
Send Report To	Jeffrey L. Croston	Inv Attn	Accounts Payable												
Address	10450 Stanciliff Rd, Suite 210	Address	10450 Stanciliff Rd, Suite 210												
City/State/Zip	Houston, Texas 77099-4338	City/State/Zip	Houston, Texas 77099-4338												
Phone	(281) 530-5656	Phone	(281) 530-5656												
Fax	(281) 530-5887	Fax	(281) 530-5887												
eMail Address	jcroston@delabi.com	eMail CC	glenda.ramos@alsenviro.com												
Sample ID		Matrix	Collection Date	A	B	C	D	E	F	G	H	I	J		
0802275-02A (DAF)		Soil	2/13/2008 14:40	X	X										
			(1) ZOZGNEAT												

Comments: Please analyze for Reactive Cyanide and Reactive Sulfide.

Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
<i>Patricia B...</i>	2/15/08 0950	UPS	2/14/08		Std
UPS	2/15/08 0950	UPS	2/15/08 0950		

e-Lab Analytical, Inc

Sample Receipt Checklist

Client Name ELAB-HOU

Date/Time Received: 2/15/2008 9:50:00 AM

Work Order Number 0802262

Received by: AJK

Checklist completed by

Signature

2/15/08
Date

Reviewed by

Initials

Date

Matrix: Soil

Carrier name: UPS

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

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 ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

1.2°C

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Adjusted? _____

Checked by _____

Login Notes:

Client contacted _____

Date contacted: _____

Person contacted _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action _____

UPS Next Day Air Saver
Shipping Document

WEIGHT 29	DIMENSIONAL WEIGHT	LARGE PACKAGE ☐
--------------	--------------------	---

SHIPPER RELEASE ☐	TP 1P
---	----------

Saver

The shipper certifies that the contents are not hazardous materials and are not restricted for export, control, and customs purposes. The shipper certifies that the contents are not restricted for export, control, and customs purposes. The shipper certifies that the contents are not restricted for export, control, and customs purposes.

SHIPMENT FROM
UPS ACCOUNT NO. **698174**

REFERENCE NUMBER
SUB CONTRACT

RICHARD SANCHEZ

TELEPHONE
281-530-5656

E-LAB, INC.

1450 STANCLIFF RD STE #210

HOUSTON

TX 77099

DELIVER TO

RECEIVING

TELEPHONE
616-399-6070

E-LAB, INC.

3352 128TH AVE

HOLLAND

MI **49424**

(URC v.64.0A 02/2007)
0201952542609 1/07 S

United Parcel Service, Louisville, KY

UPS Next Day Air Saver 1P



1Z 698 174 23 1004 3243

SHIPMENT ID NUMBER	6981 7478 80W
--------------------	---------------



3352 128TH AVE

HOLLAND MI 49424

P:

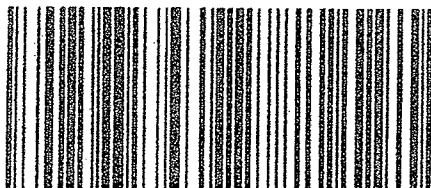
S:

I:

M220-RDL



1500



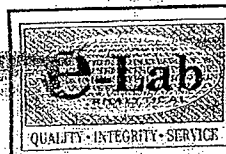
1Z 698 174 23 1004 3243

1255391 332207 US 04959 Feb 15 07:57:28 2008 HIP 7.0.1 INT4420

DWS ID Label



1Z6981742310043243



e-Lab Analytical, Inc.
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. 281.530.5656
Fax. 218.530.5887

CUSTODY SEAL

Date: **2/14/08** Time: **1600**
Name: **RICHARD SANCHEZ**
Company: **ALS LAB**

Seal Broken By:
Date: **2/15/08**

0802262

e-Lab Analytical, Inc.

Date: August 24, 2007

CLIENT: Navajo Refining Company

Client Sample ID: DAF

Work Order: 0708424

Collection Date: 8/13/2007 3:00:00 PM

Project: DAF Disposal

Lab ID: 0708424-01

Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY - SOIL			E300		Prep Date: 8/23/2007	Analyst: LMD
Chloride	280		4.74	mg/Kg	1	8/23/2007 8:20:00 PM
Surr: Selenate (surr)	96.3		85-115	%REC	1	8/23/2007 8:20:00 PM
PAINT FILTER TEST			SW9095A			Analyst: LMD
Free Liquid	No Free Liquid			Pos/Neg	1	8/20/2007

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

AR Page 1 of 1

e-Lab Analytical, Inc.

Date: Aug 24 2007

CLIENT: Navajo Refining Company

QC BATCH REPORT

Work Order: 0708424

Project: DAF Disposal

Batch ID: 25205 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS1-082307 Units: mg/Kg Analysis Date: 08/23/07 19:26

Client ID: Run ID: ICS3000_070823A SeqNo: 1195750 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0	0	0	0	0-0	0			
Surr: Selenate (surr)	48.66	1.0	50	0	97.3	85-115	0			

LCS Sample ID: WLCSS1-082307 Units: mg/Kg Analysis Date: 08/23/07 19:48

Client ID: Run ID: ICS3000_070823A SeqNo: 1195751 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	202.4	5.0	200	0	101	90-110	0			
Surr: Selenate (surr)	50.53	1.0	50	0	101	85-115	0			

MS Sample ID: 0708365-01AMS Units: mg/Kg Analysis Date: 08/24/07 13:40

Client ID: Run ID: ICS3000_070823A SeqNo: 1196296 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.8	4.8	97.07	8.62	99	75-125	0			
Surr: Selenate (surr)	47.03	0.97	48.54	0	96.9	80-120	0			

MSD Sample ID: 0708365-01AMSD Units: mg/Kg Analysis Date: 08/24/07 14:05

Client ID: Run ID: ICS3000_070823A SeqNo: 1196297 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.7	4.8	97.07	8.62	99	75-125	104.8	0.0742	20	
Surr: Selenate (surr)	47.02	0.97	48.54	0	96.9	80-120	47.03	0.0206	20	

DUP Sample ID: 0708365-01ADUP Units: mg/Kg Analysis Date: 08/23/07 23:10

Client ID: Run ID: ICS3000_070823A SeqNo: 1196293 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.64	4.8	0	0	0	0-0	8.62	0.225	20	
Surr: Selenate (surr)	47.23	0.97	48.54	0	97.3	85-115	47.13	0.206	20	

The following samples were analyzed in this batch:

0708424-01A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708424
Project: DAF Disposal

QC BATCH REPORT

Batch ID: R53543 Instrument ID WetChem Method: SW9095A (Dissolve)

DUP Sample ID: 0708424-01ADUP Units: Pos/Neg Analysis Date: 08/20/07 0:00

Client ID: DAF Run ID: WETCHEM_070820I SeqNo: 1192730 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Free Liquid	ND	0	0	0	0		0	0	100	

The following samples were analyzed in this batch:

0708424-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



☐ e-Lab Analytical, Inc.
10450 Stancil Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page of

☐ e-Lab Analytical, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

The Chain of Custody is a Legal Document. All information must be completed accurately.

Customer Information				Project Information				e-Lab Project Manager				e-Lab Work Order #			
Purchase Order	Project Name	Project Number	Project Name	Project Number	Project Name	Project Number	Project Name	Project Number	Project Name	Project Number	Project Name	Project Number	Project Name	Project Number	
Company Name	Navaya	Bill To Company		Invoice Attn		City/State/Zip		Phone		Fax		e-Mail Address			
Send Report To	J. Byrd														
Address															
City/State/Zip															
Phone															
Fax															
e-Mail Address															
Sample Description	OAF	Date	8/13/07	Time	1500	Matrix	S	Pres.	4	# Bottles	1				
No.	1														
2															
3															
4															
5															
6															
7															
8															
9															
10															
Sampler(s) Please Print & Sign				Shipper/Method				Required Turnaround Time: (Check Box)				Results Due Date			
Relinquished by: <i>[Signature]</i>				Fed Ex				STD-10 Wk Days				8/16/07			
Relinquished by: <i>[Signature]</i>				Fed Ex				5 Wk Days				8/16/07			
Logged by (Laboratory)				Time				Received by (Laboratory)				Time			
Date: 8/13/07				Time: 1615				Date: 8-14-07				Time: 0900			
Preservative Key: 1-HCl, 2-HNO ₃ , 3-H ₂ SO ₄ , 4-NaOH, 5-Na ₂ SO ₃ , 6-NaHSO ₄ , 7-Other				8-4 C				9-5035							
e-Lab Analytical Cooler ID				Trip Blank Number				QC Package: (Check One Box Below)				TRAP Checklist			
								Level II Std QC				☐ TRAP Level II			
								Level III Std QC/Raw Data				☐ TRAP Level III			
								Level IV SW846/CLP				☐ TRAP Level IV			
								Other							

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.
2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 8/14/2007 9:00:00 AM

Work Order Number 0708282

Received by: RSZ

Checklist completed by [Signature] 8/14/07
Signature Date

Reviewed by [Signature] 8/14/07
Initials Date

Matrix: S

Carrier name: FedEx

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| 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 ☒ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☒ | No ☐ | |
| Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| Sample containers intact? | Yes ☒ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| All samples received within holding time? | Yes ☒ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☒ | No ☐ | |
| Temperature(s)/Thermometer(s): | <u>4.2c</u> | <u>002</u> | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA vials submitted ☒ |
| Water - pH acceptable upon receipt? | Yes ☐ | No ☐ | N/A ☒ |

Adjusted? _____ Checked by _____

Login Notes:

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

	e-Lab Analytical, Inc. 10450 Standcliff Rd., Suite 210 Houston, Texas 77099 Tel. 281.530.5656 Fax. 218.530.5867	CUSTODY SEAL		Seal Broken By: 
		Date: 8/13/07	Time: 1610	Date: 8-14-07
		Name: Jeff Byrd		
		Company: e-Lab		

e-Lab Analytical, Inc.

Date: August 16, 2007

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal
Lab ID: 0708282-01

Client Sample ID: DAF
Collection Date: 8/13/2007 3:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY						
Mercury	ND		SW7470 0.000200	mg/L	Prep Date: 8/15/2007 1	Analyst: JCJ 8/15/2007 1:47:46 PM
TCLP METALS, ICP						
Arsenic	ND		SW1311/6020 0.0500	mg/L	Prep Date: 8/15/2007 10	Analyst: ALR 8/15/2007 5:47:00 PM
Barium	0.183		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Cadmium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Chromium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Lead	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Selenium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Silver	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
TCLP SEMIVOLATILES						
2,4,5-Trichlorophenol	ND		SW1311/8270 5.0	µg/L	Prep Date: 8/15/2007 1	Analyst: ACN 8/16/2007 3:16:00 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Cresols, Total	61		30	µg/L	1	8/16/2007 3:16:00 PM
Hexachlorobenzene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Hexachloroethane	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Nitrobenzene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Pentachlorophenol	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Pyridine	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Surr: 2,4,6-Tribromophenol	64.0		42-124	%REC	1	8/16/2007 3:16:00 PM
Surr: 2-Fluorobiphenyl	67.0		48-120	%REC	1	8/16/2007 3:16:00 PM
Surr: 2-Fluorophenol	58.7		20-120	%REC	1	8/16/2007 3:16:00 PM
Surr: 4-Terphenyl-d14	65.6		51-135	%REC	1	8/16/2007 3:16:00 PM
Surr: Nitrobenzene-d5	68.7		41-120	%REC	1	8/16/2007 3:16:00 PM
Surr: Phenol-d6	63.0		20-120	%REC	1	8/16/2007 3:16:00 PM
TCLP VOLATILES						
1,1-Dichloroethene	ND		SW1311/8260B 100	µg/L	Prep Date: 8/14/2007 20	Analyst: PC 8/15/2007 1:40:00 PM
1,2-Dichloroethane	ND		100	µg/L	20	8/15/2007 1:40:00 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
2-Butanone	ND		200	µg/L	20	8/15/2007 1:40:00 PM
Benzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Carbon tetrachloride	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Chlorobenzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Chloroform	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Tetrachloroethene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Trichloroethene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Vinyl chloride	ND		100	µg/L	20	8/15/2007 1:40:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 16, 2007

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal
Lab ID: 0708282-01

Client Sample ID: DAF
Collection Date: 8/13/2007 3:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	102		70-125	%REC	20	8/15/2007 1:40:00 PM
Surr: 4-Bromofluorobenzene	105		72-125	%REC	20	8/15/2007 1:40:00 PM
Surr: Dibromofluoromethane	103		71-125	%REC	20	8/15/2007 1:40:00 PM
Surr: Toluene-d8	106		75-125	%REC	20	8/15/2007 1:40:00 PM
CYANIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Cyanide	ND		40.0	mg/Kg	1	8/13/2007
SULFIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Sulfide	ND		40.0	mg/Kg	1	8/13/2007
IGNITABILITY FOR SOLIDS			SW846, CHPT. 7.1.2			Analyst: RPM
Burns vigorously and persistently	No				1	8/15/2007
Ignites spontaneously	No				1	8/15/2007
Ignites through friction	No				1	8/15/2007
Ignites under std. temp and pressure	No				1	8/15/2007
Ignites with moisture	No				1	8/15/2007
PH IN SOLID			SW9045B			Analyst: TH
pH	7.19		0.100	pH Units	1	8/15/2007

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

Date: Aug 16 2007

QC BATCH REPORT

Batch ID: 25068		Instrument ID Mercury			Method: SW7470					
MBLK		Sample ID: GBLKT1-081507				Units: mg/L		Analysis Date: 08/15/07 13:14		
Client ID:		Run ID: MERCURY_070815A			SeqNo: 1189823		Prep Date: 8/15/2007		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								
MBLK		Sample ID: GBLKW1-081507				Units: mg/L		Analysis Date: 08/15/07 12:55		
Client ID:		Run ID: MERCURY_070815A			SeqNo: 1189834		Prep Date: 8/15/2007		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								
LCS		Sample ID: GLCSW1-081507				Units: mg/L		Analysis Date: 08/15/07 12:57		
Client ID:		Run ID: MERCURY_070815A			SeqNo: 1189835		Prep Date: 8/15/2007		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00516	0.00020	0.005	0	103	80-120	0			
LCSD		Sample ID: GLCSDW1-081507				Units: mg/L		Analysis Date: 08/15/07 12:59		
Client ID:		Run ID: MERCURY_070815A			SeqNo: 1189836		Prep Date: 8/15/2007		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00492	0.00020	0.005	0	98.4	80-120	0.00516	4.76	25	
MS		Sample ID: 0708254-01BMS				Units: mg/L		Analysis Date: 08/15/07 13:06		
Client ID:		Run ID: MERCURY_070815A			SeqNo: 1189816		Prep Date: 8/15/2007		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00493	0.00020	0.005	-0.000016	98.9	75-125	0			
MSD		Sample ID: 0708254-01BMSD				Units: mg/L		Analysis Date: 08/15/07 13:08		
Client ID:		Run ID: MERCURY_070815A			SeqNo: 1189819		Prep Date: 8/15/2007		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00482	0.00020	0.005	-0.000016	96.7	75-125	0.00493	2.26	20	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25068 Instrument ID Mercury Method: SW7470

DUP Sample ID: 0708254-01BDUP Units: mg/L Analysis Date: 08/15/07 13:03

Client ID: Run ID: MERCURY_070815A SeqNo: 1189815 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.000016	0	20	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25074 Instrument ID ICPMS02 Method: SW1311/6020

MBLK Sample ID: MBLKT1-081407 Units: mg/L Analysis Date: 08/15/07 17:15

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190263 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

MBLK Sample ID: MBLKW3-081507 Units: mg/L Analysis Date: 08/15/07 17:21

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190264 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

LCS Sample ID: MLCSW3-081507 Units: mg/L Analysis Date: 08/15/07 17:28

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190265 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1807	0.050	0.2	0	90.4	80-120	0			
Barium	0.1939	0.050	0.2	0	97	80-120	0			
Cadmium	0.1976	0.050	0.2	0	98.8	80-120	0			
Chromium	0.1906	0.050	0.2	0	95.3	80-120	0			
Lead	0.2057	0.050	0.2	0	103	80-120	0			
Selenium	0.2032	0.050	0.2	0	102	80-120	0			
Silver	0.1866	0.050	0.2	0	93.3	80-120	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25074 Instrument ID ICPMS02 Method: SW1311/6020

MS Sample ID: 0708293-01AMS Units: mg/L Analysis Date: 08/15/07 18:43

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190276 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.193	0.050	0.2	0.0004601	96.3	75-125	0			
Barium	0.9508	0.050	0.2	0.7502	100	75-125	0			
Cadmium	0.197	0.050	0.2	0.001594	97.7	75-125	0			
Chromium	0.2012	0.050	0.2	0.01973	90.7	75-125	0			
Lead	0.2013	0.050	0.2	0.005644	97.8	75-125	0			
Selenium	0.2181	0.050	0.2	0.009863	104	75-125	0			
Silver	0.1717	0.050	0.2	-0.002527	87.1	75-125	0			

MSD Sample ID: 0708293-01AMSD Units: mg/L Analysis Date: 08/15/07 18:49

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190277 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1918	0.050	0.2	0.0004601	95.7	75-125	0.193	0.624	25	
Barium	0.9347	0.050	0.2	0.7502	92.2	75-125	0.9508	1.71	25	
Cadmium	0.1959	0.050	0.2	0.001594	97.2	75-125	0.197	0.56	25	
Chromium	0.1957	0.050	0.2	0.01973	88	75-125	0.2012	2.77	25	
Lead	0.2006	0.050	0.2	0.005644	97.5	75-125	0.2013	0.348	25	
Selenium	0.2191	0.050	0.2	0.009863	105	75-125	0.2181	0.457	25	
Silver	0.1644	0.050	0.2	-0.002527	83.5	75-125	0.1717	4.34	25	

DUP Sample ID: 0708293-01ADUP Units: mg/L Analysis Date: 08/15/07 18:31

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190274 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050	0	0	0	0-0	0.0004601	0	25	
Barium	0.7598	0.050	0	0	0	0-0	0.7502	1.27	25	
Cadmium	ND	0.050	0	0	0	0-0	0.001594	0	25	
Chromium	0.01939	0.050	0	0	0	0-0	0.01973	0	25	J
Lead	0.004559	0.050	0	0	0	0-0	0.005644	0	25	J
Selenium	ND	0.050	0	0	0	0-0	0.009863	0	25	
Silver	ND	0.050	0	0	0	0-0	-0.002527	0	25	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **25077** Instrument ID **SV-3** Method: **SW8270**

MBLK Sample ID: **SBLKT1-070815** Units: **µg/L** Analysis Date: **08/16/07 13:54**

Client ID: Run ID: **SV-3_070816A** SeqNo: **1190903** Prep Date: **8/15/2007** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Cresols, Total	ND	5.0								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	5.0								
Hexachloroethane	ND	5.0								
Nitrobenzene	ND	5.0								
Pentachlorophenol	ND	5.0								
Pyridine	ND	5.0								
Surr: 2,4,6-Tribromophenol	70.22	0	100	0	70.2	42-124	0			
Surr: 2-Fluorobiphenyl	75.53	0	100	0	75.5	48-120	0			
Surr: 2-Fluorophenol	68.54	0	100	0	68.5	20-120	0			
Surr: 4-Terphenyl-d14	79.46	0	100	0	79.5	51-135	0			
Surr: Nitrobenzene-d5	80.11	0	100	0	80.1	41-120	0			
Surr: Phenol-d6	73.01	0	100	0	73	20-120	0			

LCS Sample ID: **SLCST1-070815** Units: **µg/L** Analysis Date: **08/16/07 14:22**

Client ID: Run ID: **SV-3_070816A** SeqNo: **1190904** Prep Date: **8/15/2007** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	87.64	5.0	100	0	87.6	52-115	0			
2,4,6-Trichlorophenol	81.31	5.0	100	0	81.3	56-115	0			
2,4-Dinitrotoluene	41.25	5.0	50	0	82.5	56-115	0			
Cresols, Total	202.3	5.0	200	0	101	48-115	0			
Hexachlorobenzene	44.78	5.0	50	0	89.6	54-115	0			
Hexachlorobutadiene	45.31	5.0	50	0	90.6	51-115	0			
Hexachloroethane	42.5	5.0	50	0	85	54-115	0			
Nitrobenzene	44.78	5.0	50	0	89.6	40-124	0			
Pentachlorophenol	83.93	5.0	100	0	83.9	45-125	0			
Pyridine	31.65	5.0	50	0	63.3	34-115	0			
Surr: 2,4,6-Tribromophenol	80.57	0	100	0	80.6	42-124	0			
Surr: 2-Fluorobiphenyl	78.86	0	100	0	78.9	48-120	0			
Surr: 2-Fluorophenol	73.94	0	100	0	73.9	20-120	0			
Surr: 4-Terphenyl-d14	80.66	0	100	0	80.7	51-135	0			
Surr: Nitrobenzene-d5	84.11	0	100	0	84.1	41-120	0			
Surr: Phenol-d6	76.29	0	100	0	76.3	20-120	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25077 Instrument ID SV-3 Method: SW8270

LCSD Sample ID: SLCSDT1-070815 Units: µg/L Analysis Date: 08/16/07 14:49

Client ID: Run ID: SV-3_070816A SeqNo: 1190905 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	83.3	5.0	100	0	83.3	52-115	87.64	5.08	30	
2,4,6-Trichlorophenol	81.91	5.0	100	0	81.9	56-115	81.31	0.731	30	
2,4-Dinitrotoluene	38.28	5.0	50	0	76.6	56-115	41.25	7.48	30	
Cresols, Total	193.9	5.0	200	0	97	48-115	202.3	4.22	30	
Hexachlorobenzene	44.33	5.0	50	0	88.7	54-115	44.78	1.02	30	
Hexachlorobutadiene	41.47	5.0	50	0	82.9	51-115	45.31	8.84	30	
Hexachloroethane	41.33	5.0	50	0	82.7	54-115	42.5	2.77	30	
Nitrobenzene	43.72	5.0	50	0	87.4	40-124	44.78	2.39	30	
Pentachlorophenol	83.14	5.0	100	0	83.1	45-125	83.93	0.951	30	
Pyridine	30.15	5.0	50	0	60.3	34-115	31.65	4.83	30	
Surr: 2,4,6-Tribromophenol	79.29	0	100	0	79.3	42-124	80.57	1.61	30	
Surr: 2-Fluorobiphenyl	78.23	0	100	0	78.2	48-120	78.86	0.806	30	
Surr: 2-Fluorophenol	72.85	0	100	0	72.8	20-120	73.94	1.49	30	
Surr: 4-Terphenyl-d14	80.29	0	100	0	80.3	51-135	80.66	0.465	30	
Surr: Nitrobenzene-d5	82.54	0	100	0	82.5	41-120	84.11	1.89	30	
Surr: Phenol-d6	74.73	0	100	0	74.7	20-120	76.29	2.07	30	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: R53443 Instrument ID VOA1 Method: SW1311/8260

MBLK		Sample ID: VBLKW-081507			Units: µg/L			Analysis Date: 08/15/07 11:31		
Client ID:		Run ID: VOA1_070815B			SeqNo: 1190701		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachloroethene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	49.44	5.0	50	0	98.9	70-125	0			
Surr: 4-Bromofluorobenzene	51.61	5.0	50	0	103	72.4-125	0			
Surr: Dibromofluoromethane	51.92	5.0	50	0	104	71.2-125	0			
Surr: Toluene-d8	50.51	5.0	50	0	101	75-125	0			

MBLK		Sample ID: VBLKTK1-081007			Units: µg/L			Analysis Date: 08/15/07 11:57		
Client ID:		Run ID: VOA1_070815B			SeqNo: 1190702		Prep Date: 8/10/2007		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	970.1	100	1000	0	97	70-125	0			
Surr: 4-Bromofluorobenzene	1055	100	1000	0	106	72.4-125	0			
Surr: Dibromofluoromethane	993.4	100	1000	0	99.3	71.2-125	0			
Surr: Toluene-d8	1032	100	1000	0	103	75-125	0			

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J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **R53443** Instrument ID **VOA1** Method: **SW1311/8260**

MBLK Sample ID: **VLKTK2-081407** Units: **µg/L** Analysis Date: **08/15/07 12:23**

Client ID: Run ID: **VOA1_070815B** SeqNo: **1190703** Prep Date: **8/14/2007** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	1015	100	1000	0	102	70-125	0			
Surr: 4-Bromofluorobenzene	1020	100	1000	0	102	72.4-125	0			
Surr: Dibromofluoromethane	1023	100	1000	0	102	71.2-125	0			
Surr: Toluene-d8	1037	100	1000	0	104	75-125	0			

LCS Sample ID: **VLCSW-081507** Units: **µg/L** Analysis Date: **08/15/07 10:40**

Client ID: Run ID: **VOA1_070815B** SeqNo: **1190700** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	49.96	5.0	50	0	99.9	73-124	0			
1,2-Dichloroethane	52.01	5.0	50	0	104	76-120	0			
1,4-Dichlorobenzene	48.57	5.0	50	0	97.1	70-130	0			
2-Butanone	102.8	10	100	0	103	70-130	0			
Benzene	49.68	5.0	50	0	99.4	70-128	0			
Carbon tetrachloride	54.52	5.0	50	0	109	70-130	0			
Chlorobenzene	48.42	5.0	50	0	96.8	72-127	0			
Chloroform	50.28	5.0	50	0	101	70-130	0			
Tetrachloroethene	50.24	5.0	50	0	100	70-130	0			
Trichloroethene	48.39	5.0	50	0	96.8	72-129	0			
Vinyl chloride	45.21	5.0	50	0	90.4	70-130	0			
Surr: 1,2-Dichloroethane-d4	51.8	5.0	50	0	104	70-125	0			
Surr: 4-Bromofluorobenzene	52.18	5.0	50	0	104	72-125	0			
Surr: Dibromofluoromethane	52.53	5.0	50	0	105	71-125	0			
Surr: Toluene-d8	53.15	5.0	50	0	106	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **R53443** Instrument ID **VOA1** Method: **SW1311/8260**

MS Sample ID: **0708206-01AMS** Units: **µg/L** Analysis Date: **08/15/07 14:05**
 Client ID: Run ID: **VOA1_070815B** SeqNo: **1190707** Prep Date: **8/14/2007** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	856	100	1000	0	85.6	73-124	0			
1,2-Dichloroethane	1078	100	1000	0	108	76-120	0			
1,4-Dichlorobenzene	930.3	100	1000	0	93	70-130	0			
2-Butanone	2232	200	2000	0	112	70-130	0			
Benzene	965.4	100	1000	0	96.5	70-128	0			
Carbon tetrachloride	951.3	100	1000	0	95.1	70-130	0			
Chlorobenzene	910.5	100	1000	0	91	72-127	0			
Chloroform	955.1	100	1000	0	95.5	70-130	0			
Tetrachloroethene	875.4	100	1000	0	87.5	70-130	0			
Trichloroethene	905	100	1000	0	90.5	72-129	0			
Vinyl chloride	744.7	100	1000	0	74.5	70-130	0			
Surr: 1,2-Dichloroethane-d4	1049	100	1000	0	105	70-125	0			
Surr: 4-Bromofluorobenzene	1027	100	1000	0	103	72-125	0			
Surr: Dibromofluoromethane	1049	100	1000	0	105	71-125	0			
Surr: Toluene-d8	1012	100	1000	0	101	75-125	0			

MSD Sample ID: **0708206-01AMSD** Units: **µg/L** Analysis Date: **08/15/07 14:31**
 Client ID: Run ID: **VOA1_070815B** SeqNo: **1190709** Prep Date: **8/14/2007** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	872.4	100	1000	0	87.2	73-124	856	1.9	20	
1,2-Dichloroethane	1060	100	1000	0	106	76-120	1078	1.66	20	
1,4-Dichlorobenzene	933.3	100	1000	0	93.3	70-130	930.3	0.327	20	
2-Butanone	2197	200	2000	0	110	70-130	2232	1.57	20	
Benzene	960.9	100	1000	0	96.1	70-128	965.4	0.465	20	
Carbon tetrachloride	921.8	100	1000	0	92.2	70-130	951.3	3.15	20	
Chlorobenzene	952.6	100	1000	0	95.3	72-127	910.5	4.52	20	
Chloroform	970.2	100	1000	0	97	70-130	955.1	1.56	20	
Tetrachloroethene	880.1	100	1000	0	88	70-130	875.4	0.541	20	
Trichloroethene	906	100	1000	0	90.6	72-129	905	0.112	20	
Vinyl chloride	804.4	100	1000	0	80.4	70-130	744.7	7.71	20	
Surr: 1,2-Dichloroethane-d4	1060	100	1000	0	106	70-125	1049	1.1	20	
Surr: 4-Bromofluorobenzene	1022	100	1000	0	102	72-125	1027	0.482	20	
Surr: Dibromofluoromethane	1049	100	1000	0	105	71-125	1049	0.038	20	
Surr: Toluene-d8	1053	100	1000	0	105	75-125	1012	3.99	20	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: R53385 Instrument ID WetChem Method: SW846, Chpt.

DUP Sample ID: 0708311-02D DUP Units: Analysis Date: 08/15/07 0:00

Client ID: Run ID: WETCHEM_070815E SeqNo: 1189790 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Burns vigorously and persistently	ND	0	0	0	0	0-0	0	0	0	
Ignites spontaneously	ND	0	0	0	0	0-0	0	0	0	
Ignites through friction	ND	0	0	0	0	0-0	0	0	0	
Ignites under std. temp and pressur	ND	0	0	0	0	0-0	0	0	0	
Ignites with moisture	ND	0	0	0	0	0-0	0	0	0	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **R53395** Instrument ID **WetChem** Method: **SW9045B**

LCS	Sample ID: WLCSS-081507				Units: pH Units			Analysis Date: 08/15/07 0:00		
Client ID:	Run ID: WETCHEM_070815H				SeqNo: 1189915	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.03	0.10	6	0	100	90-110		0		

DUP	Sample ID: 0708282-01ADUP				Units: pH Units			Analysis Date: 08/15/07 0:00		
Client ID: DAF	Run ID: WETCHEM_070815H				SeqNo: 1189928	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.22	0.10	0	0	0	0-0	7.19	0.416	20	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



☐ e-Lab Analytical, Inc.
10450 Stanciliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page of

☐ e-Lab Analytical, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

The Chain of Custody is a Legal Document. All information must be completed accurately.

Customer Information				Project Information				Parameter/Method Request for Analysis											
Project Name <i>DAF Disposal</i>				e-Lab Project Manager <i>DAF Disposal</i>				e-Lab Work Order # <i>108882</i>											
Project Number				Project Name				A											
Bill To Company				Project Number				B											
Invoice Attn				Bill To Company				C											
Address				Invoice Attn				D											
City/State/Zip				Address				E											
Phone				City/State/Zip				F											
Fax				Phone				G											
e-Mail Address				Fax				H											
e-Mail Address				e-Mail Address				I											
e-Mail Address				e-Mail Address				J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	DAF	8/13/07	1500	S	9	1	X	X	X	X									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler(s) Please Print & Sign		Ship/Method		Required Turnaround Time (Check Box)		Results Due Date	
Date	Time	Date	Time	STD-10 Wk Days	5 Wk Days	2 Wk Days	24 Hour
8/13/07	1615	8/13/07	1615	☒	☐	☐	☐

Relinquish to		Received by		Notes	
Date	Time	Date	Time	e-Lab Analytical Cooler ID	WIP Blank Number
8/13/07	1615	8/14/07	0900		

Logged by (Laboratory)		Checked by (Laboratory)		COC Package (Check One Box Below)	
Date	Time	Date	Time	Level II Std QC	Level III Std QC/Raw Data
				☐	☐

Preservative Key		Other	
1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH

Preservative Key		Other	
5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-C

TRRP Checklist	
Level IV SW846/CLP	Other
☐	☐

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.
2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

e-Lab Analytical, Inc

Date: August 16, 2007

CLIENT: e-Lab Analytical, Inc

Client Sample ID: 0708282-01B

Work Order: 0708365

Collection Date: 8/13/2007 3:00:00 PM

Project: 0708282

Lab ID: 0708365-01

Matrix: SOIL

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE						Analyst: ED
Cyanide, Reactive	ND	40.0		mg/Kg	1	8/13/2007
SULFIDE, REACTIVE						Analyst: ED
Sulfide, Reactive	ND	40.0		mg/Kg	1	8/13/2007

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

Sample Receipt Checklist

Client Name: NAVAJO REFININGDate/Time Received: 8/14/2007 9:00:00 AMWork Order Number 0708282Received by: RSZ

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

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 ☒No ☐

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

4.2c002

Water - VOA vials have zero headspace?

Yes ☐No ☐No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐No ☐N/A ☒

Adjusted?

Checked by

Login Notes:

Client contacted:

Date contacted:

Person contacted:

Contacted by:

Regarding:

Comments:

Corrective Action

**e-Lab Analytical, Inc.**

10450 Stancliff Rd., Suite 210

Houston, Texas 77099

Tel. 281.530.5656

Fax. 218.530.5887

CUSTODY SEALDate: 8/13/07 Time: 1610Name: Jeff ByrdCompany: AlamedaSeal Broken By: RBDate: 8-14-07

e-Lab Analytical, Inc

Date: *August 16, 2007*

CLIENT: e-Lab Analytical, Inc

Project: 0708282

Work Order: 0708365

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0708365-01	0708282-01B	Soil		8/13/2007 15:00	8/15/2007 09:50	☐

e-Lab Analytical, Inc**Date:** *August 16, 2007***CLIENT:** e-Lab Analytical, Inc**Project:** 0708282**Work Order:** 0708365**Case Narrative**

Batch R51624 Reactive Cyanide LCS/LCSD and MS/MSD RPDs were above control limits. The individual recoveries were in control.

e-Lab Analytical, Inc

Date: Aug 16 2007

CLIENT: e-Lab Analytical, Inc

Work Order: 0708365

Project: 0708282

QC BATCH REPORT

Batch ID: R51623 Instrument ID WETCHEM Method: EPA 7.3.4.2

MBLK Sample ID MB-R51623 Units: mg/Kg Analysis Date: 08/13/07 0:00

Client ID: Run ID: WETCHEM_070813M SeqNo: 839935 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch:

0708365-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: e-Lab Analytical, Inc
Work Order: 0708365
Project: 0708282

QC BATCH REPORT

Batch ID: **R51624** Instrument ID: **WETCHEM** Method: **EPA 7.3.3.2**

MBLK Sample ID: **WBLKW1081307** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839943** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	40								

LCS Sample ID: **WLCSW1081307** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839944** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	352.3	40	620	0	56.8	2.8-70	0			

LCSD Sample ID: **WLCSDW1081307** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839954** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	146.8	40	620	0	23.7	2.8-70	352.3	82.4	35	R

MS Sample ID: **0708253-02A MS** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839952** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	411	40	620	0	66.3	2.8-70	0			

MSD Sample ID: **0708253-02A MSD** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839953** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	146.8	40	620	0	23.7	2.8-70	411	94.7	35	R

The following samples were analyzed in this batch:

0708365-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

0708365



Subcontractor:
e-Lab Analytical, Inc.
3352 128th Ave.
Holland, MI 49424

QUALITY • INTEGRITY • SERVICE

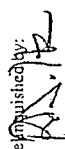
CHAIN-OF-CUSTODY RECORD

TEL: (616) 399-6070
FAX: (616) 399-6185
Acct #:

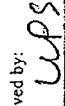
Date: Aug 14, 2007
COC ID: 5412
Due Date 8/16/2007

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	Project Name	0708282		Cyanide, Reactive (SW-846)												
Work Order	Project Number			Sulfide, Reactive (SW-846)												
Company Name	Bill To Company	e-Lab Analytical, Inc.														
Send Report To	Inv Attn	Accounts Payable														
Address	Address	10450 Stanciliff Rd, Suite 210														
City/State/Zip	City/State/Zip	Houston, Texas 77099-4338														
Phone	Phone	(281) 530-5656														
Fax	Fax	(281) 530-5887														
eMail Address	eMail CC	jcroston@elabi.com														
Matrix		Collection Date		Bottle												
Soil		8/13/2007 15:00		(1) 20ZGNEAT												
Sample ID				A	B	C	D	E	F	G	H	I	J			
0708282-01B (DAF)				X	X											

Comments: Please analyze for Reactive Cyanide & Reactive Sulfide.

Relinquished by:  WPS

Date/Time: 8/14/07 0950

Received by:  WPS

Date/Time: 8/14/07

Relinquished by:  WPS

Date/Time: 8/15/07 0950

Received by:  WPS

Date/Time: 8/15/07 0950

Cooler IDs: 

Report/QC Level: Std

e-Lab Analytical, Inc.

Date: June 30, 2004

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)
Lab ID: 0406164-01

Client Sample ID: DAF
Collection Date: 6/15/2004 10:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
TCLP MERCURY						
Mercury	ND	0.00200		mg/L	1	6/18/2004 2:48:59 PM
TCLP METALS, ICP						
Arsenic	ND	0.0500		mg/L	10	6/18/2004 8:05:00 PM
Barium	0.429	0.0500		mg/L	10	6/18/2004 8:05:00 PM
Cadmium	ND	0.0500		mg/L	10	6/18/2004 8:05:00 PM
Chromium	ND	0.0500		mg/L	10	6/18/2004 8:05:00 PM
Lead	ND	0.0500		mg/L	10	6/18/2004 8:05:00 PM
Selenium	0.0636	0.0500		mg/L	10	6/18/2004 8:05:00 PM
Silver	ND	0.0500		mg/L	10	6/18/2004 8:05:00 PM
TCLP SEMIVOLATILES						
2,4,5-Trichlorophenol	ND	12		µg/L	1	6/18/2004 11:53:00 PM
2,4,6-Trichlorophenol	ND	12		µg/L	1	6/18/2004 11:53:00 PM
2,4-Dinitrotoluene	ND	12		µg/L	1	6/18/2004 11:53:00 PM
Cresols, Total	ND	38		µg/L	1	6/18/2004 11:53:00 PM
Hexachlorobenzene	ND	12		µg/L	1	6/18/2004 11:53:00 PM
Hexachlorobutadiene	ND	12		µg/L	1	6/18/2004 11:53:00 PM
Hexachloroethane	ND	12		µg/L	1	6/18/2004 11:53:00 PM
Nitrobenzene	ND	12		µg/L	1	6/18/2004 11:53:00 PM
Pentachlorophenol	ND	12		µg/L	1	6/18/2004 11:53:00 PM
Pyridine	ND	12		µg/L	1	6/18/2004 11:53:00 PM
Surr: 2,4,6-Tribromophenol	46.9	45-146		%REC	1	6/18/2004 11:53:00 PM
Surr: 2-Fluorobiphenyl	63.8	55-120		%REC	1	6/18/2004 11:53:00 PM
Surr: 2-Fluorophenol	27.1	21-110		%REC	1	6/18/2004 11:53:00 PM
Surr: 4-Terphenyl-d14	71.1	42-153		%REC	1	6/18/2004 11:53:00 PM
Surr: Nitrobenzene-d5	67.2	51-117		%REC	1	6/18/2004 11:53:00 PM
Surr: Phenol-d6	19.2	10-110		%REC	1	6/18/2004 11:53:00 PM
TCLP VOLATILES						
1,1-Dichloroethene	ND	100		µg/L	20	6/18/2004 7:07:00 PM
1,2-Dichloroethane	ND	100		µg/L	20	6/18/2004 7:07:00 PM
1,4-Dichlorobenzene	ND	100		µg/L	20	6/18/2004 7:07:00 PM
2-Butanone	ND	200		µg/L	20	6/18/2004 7:07:00 PM
Benzene	ND	100		µg/L	20	6/18/2004 7:07:00 PM
Carbon tetrachloride	ND	100		µg/L	20	6/18/2004 7:07:00 PM
Chlorobenzene	ND	100		µg/L	20	6/18/2004 7:07:00 PM
Chloroform	ND	100		µg/L	20	6/18/2004 7:07:00 PM
Tetrachloroethene	ND	100		µg/L	20	6/18/2004 7:07:00 PM
Trichloroethene	ND	100		µg/L	20	6/18/2004 7:07:00 PM
Vinyl chloride	ND	100		µg/L	20	6/18/2004 7:07:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: June 30, 2004

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)
Lab ID: 0406164-01

Client Sample ID: DAF
Collection Date: 6/15/2004 10:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	80.5	70-130		%REC	20	6/18/2004 7:07:00 PM
Surr: 4-Bromofluorobenzene	89.3	70-130		%REC	20	6/18/2004 7:07:00 PM
Surr: Dibromofluoromethane	82.9	70-130		%REC	20	6/18/2004 7:07:00 PM
Surr: Toluene-d8	93.2	70-130		%REC	20	6/18/2004 7:07:00 PM
CYANIDE, REACTIVE				SW-846		Analyst: MAG
Reactive Cyanide	0.103	0.0300		mg/Kg	1	6/21/2004
SULFIDE, REACTIVE				SW-846		Analyst: MAG
Reactive Sulfide	ND	40.0		mg/Kg	1	6/21/2004
IGNITABILITY FOR SOLIDS				SW846, CHPT. 7.1.2		Analyst: LMD
Burns vigorously and persistently	No				1	6/17/2004
Ignites spontaneously	No				1	6/17/2004
Ignites through friction	No				1	6/17/2004
Ignites under std. temp and pressure	No				1	6/17/2004
Ignites with moisture	No				1	6/17/2004
PH IN SOLID				SW9045B		Analyst: MG
pH	7.09	0.100		pH Units	1	6/17/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Jun 30 2004

CLIENT: Navajo Refining Company

QC BATCH REPORT

Work Order: 0406164

Project: Artesia TCLP-(DAF/CAF)

Batch ID: 9291 InstrumentID: ICP4500

MBLK Sample ID: MBLKW4-061704 Test Code: SW1311/6020 Units: mg/L Analysis Date: 06/18/04 19:47

Client ID: Run ID: ICP4500_040618A SeqNo: 487768 Prep Date: 6/17/2004 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

MBLK Sample ID: MBLKT1-061604 Test Code: SW1311/6020 Units: mg/L Analysis Date: 06/18/04 19:56

Client ID: Run ID: ICP4500_040618A SeqNo: 487770 Prep Date: 6/17/2004 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050	0	0	0	0-0	0			
Barium	ND	0.050	0	0	0	0-0	0			
Cadmium	ND	0.050	0	0	0	0-0	0			
Chromium	0.01177	0.050	0	0	0	0-0	0			J
Lead	0.008437	0.050	0	0	0	0-0	0			J
Selenium	0.01766	0.050	0	0	0	0-0	0			J
Silver	ND	0.050	0	0	0	0-0	0			

MBLK Sample ID: MBLKT2-061604 Test Code: SW1311/6020 Units: mg/L Analysis Date: 06/18/04 20:00

Client ID: Run ID: ICP4500_040618A SeqNo: 487771 Prep Date: 6/17/2004 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050	0	0	0	0-0	0			
Barium	0.007138	0.050	0	0	0	0-0	0			J
Cadmium	ND	0.050	0	0	0	0-0	0			
Chromium	0.01059	0.050	0	0	0	0-0	0			J
Lead	ND	0.050	0	0	0	0-0	0			
Selenium	ND	0.050	0	0	0	0-0	0			
Silver	ND	0.050	0	0	0	0-0	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: 9291 InstrumentID: ICP4500

LCS Sample ID: **MLCSW4-061704** Test Code: **SW1311/6020** Units: **mg/L** Analysis Date: **06/18/04 19:51**

Client ID: Run ID: **ICP4500_040618A** SeqNo: **487769** Prep Date: **6/17/2004** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1981	0.050	0.2	0	99	80-120	0			
Barium	0.1812	0.050	0.2	0	90.6	80-120	0			
Cadmium	0.1838	0.050	0.2	0	91.9	80-120	0			
Chromium	0.198	0.050	0.2	0	99	80-120	0			
Lead	0.1847	0.050	0.2	0	92.4	80-120	0			
Selenium	0.1891	0.050	0.2	0	94.5	80-120	0			
Silver	0.1939	0.050	0.2	0	97	80-120	0			

MS Sample ID: **0406166-01AMS** Test Code: **SW1311/6020** Units: **mg/L** Analysis Date: **06/18/04 20:23**

Client ID: Run ID: **ICP4500_040618A** SeqNo: **487776** Prep Date: **6/17/2004** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.172	0.050	0.2	1.08	46	75-125	0			SO
Barium	1.215	0.050	0.2	1.131	42	75-125	0			SO
Cadmium	0.1462	0.050	0.2	0.00006563	73.1	75-125	0			S
Chromium	0.1846	0.050	0.2	0.03527	74.7	75-125	0			S
Lead	0.1304	0.050	0.2	0.0002763	65.1	75-125	0			S
Selenium	0.03404	0.050	0.2	0.01023	11.9	75-125	0			JS
Silver	0.1355	0.050	0.2	-0.0001174	67.8	75-125	0			S

MSD Sample ID: **0406166-01AMSD** Test Code: **SW1311/6020** Units: **mg/L** Analysis Date: **06/18/04 20:28**

Client ID: Run ID: **ICP4500_040618A** SeqNo: **487777** Prep Date: **6/17/2004** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.285	0.050	0.2	1.08	102	75-125	1.172	9.2	25	O
Barium	1.284	0.050	0.2	1.131	76.5	75-125	1.215	5.52	25	O
Cadmium	0.161	0.050	0.2	0.00006563	80.5	75-125	0.1462	9.64	25	
Chromium	0.2066	0.050	0.2	0.03527	85.7	75-125	0.1846	11.2	25	
Lead	0.1419	0.050	0.2	0.0002763	70.8	75-125	0.1304	8.45	25	S
Selenium	0.04763	0.050	0.2	0.01023	18.7	75-125	0.03404	0	25	JS
Silver	0.1515	0.050	0.2	-0.0001174	75.8	75-125	0.1355	11.1	25	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: 9291 InstrumentID: ICP4500

DUP	Sample ID: 0406166-01ADUP			Test Code: SW1311/6020			Units: mg/L	Analysis Date: 06/18/04 20:19		
Client ID:	Run ID: ICP4500_040618A			SeqNo: 487775			Prep Date: 6/17/2004	DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.05	0.050	0	0	0	0-0	1.08	2.82	25	
Barium	1.122	0.050	0	0	0	0-0	1.131	0.799	25	
Cadmium	ND	0.050	0	0	0	0-0	0.00006563	0	25	
Chromium	0.03471	0.050	0	0	0	0-0	0.03527	0	25	J
Lead	ND	0.050	0	0	0	0-0	0.0002763	0	25	
Selenium	0.02962	0.050	0	0	0	0-0	0.01023	0	25	J
Silver	ND	0.050	0	0	0	0-0	-0.0001174	0	25	

The following samples were analyzed in this batch:

0406164-01A 0406164-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: 9296 InstrumentID: Mercury

MBLK Sample ID: GBLKW3-061704 Test Code: SW7470 Units: mg/L Analysis Date: 06/18/04 14:35

Client ID: Run ID: MERCURY_040618C SeqNo: 487599 Prep Date: 6/17/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.0020								

MBLK Sample ID: GBLKT1-061604 Test Code: SW7470 Units: mg/L Analysis Date: 06/18/04 14:39

Client ID: Run ID: MERCURY_040618C SeqNo: 487602 Prep Date: 6/17/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.0020								

LCS Sample ID: GLCSW3-061704 Test Code: SW7470 Units: mg/L Analysis Date: 06/18/04 14:36

Client ID: Run ID: MERCURY_040618C SeqNo: 487600 Prep Date: 6/17/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0053	0.0020	0.005	0	106	80-120	0			

LCS Sample ID: GLCST1-061604 Test Code: SW7470 Units: mg/L Analysis Date: 06/18/04 14:41

Client ID: Run ID: MERCURY_040618C SeqNo: 487603 Prep Date: 6/17/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00522	0.0020	0.005	0	104	80-120	0			

LCSD Sample ID: GLCSDW3-061704 Test Code: SW7470 Units: mg/L Analysis Date: 06/18/04 14:38

Client ID: Run ID: MERCURY_040618C SeqNo: 487601 Prep Date: 6/17/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00531	0.0020	0.005	0	106	80-120	0.0053	0.189	25	

MS Sample ID: 0406164-02AMS Test Code: SW7470 Units: mg/L Analysis Date: 06/18/04 14:45

Client ID: FI. Prec. Solids Run ID: MERCURY_040618C SeqNo: 487606 Prep Date: 6/17/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0054	0.0020	0.005	-0.00001	108	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: 9296 InstrumentID: Mercury

MSD Sample ID: 0406164-02AMSD Test Code: SW7470 Units: mg/L Analysis Date: 06/18/04 14:47

Client ID: FI. Prec. Solids Run ID: MERCURY_040618C SeqNo: 487607 Prep Date: 6/17/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00546	0.0020	0.005	-0.00001	109	75-125	0.0054	1.1	20	

DUP Sample ID: 0406164-02ADUP Test Code: SW7470 Units: mg/L Analysis Date: 06/18/04 14:44

Client ID: FI. Prec. Solids Run ID: MERCURY_040618C SeqNo: 487605 Prep Date: 6/17/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.0020	0	0	0	0-0	-0.00001	0	20	

The following samples were analyzed in this batch:

0406164-01A	0406164-02A
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CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: 9307 InstrumentID: SV-2

MBLK Sample ID: SBLKT1-040618 Test Code: SW1311/8270 Units: µg/L Analysis Date: 06/18/04 18:52

Client ID: Run ID: SV-2_040618A SeqNo: 488163 Prep Date: 6/18/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
Cresols, Total	ND	30								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachloroethane	ND	10								
Nitrobenzene	ND	10								
Pentachlorophenol	ND	10								
Pyridine	ND	10								
Surr: 2,4,6-Tribromophenol	91.39	10	100	0	91.4	45-146	0			
Surr: 2-Fluorobiphenyl	80.71	10	100	0	80.7	55-120	0			
Surr: 2-Fluorophenol	33.08	10	100	0	33.1	21-110	0			
Surr: 4-Terphenyl-d14	98.8	10	100	0	98.8	42-153	0			
Surr: Nitrobenzene-d5	79.81	10	100	0	79.8	51-117	0			
Surr: Phenol-d6	19.22	10	100	0	19.2	10-110	0			

LCS Sample ID: SLCST1-040618 Test Code: SW1311/8270 Units: µg/L Analysis Date: 06/18/04 19:23

Client ID: Run ID: SV-2_040618A SeqNo: 488164 Prep Date: 6/18/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	47.16	10	50	0	94.3	48-119	0			
2,4,6-Trichlorophenol	45.47	10	50	0	90.9	52-119	0			
2,4-Dinitrotoluene	37.72	10	50	0	75.4	46-114	0			
Cresols, Total	88.22	30	150	0	58.8	35-100	0			
Hexachlorobenzene	47.4	10	50	0	94.8	60-140	0			
Hexachlorobutadiene	46.23	10	50	0	92.5	47-120	0			
Hexachloroethane	40.56	10	50	0	81.1	47-113	0			
Nitrobenzene	41.15	10	50	0	82.3	55-111	0			
Pentachlorophenol	46.27	10	50	0	92.5	36-120	0			
Pyridine	21.92	10	50	0	43.8	17-80	0			
Surr: 2,4,6-Tribromophenol	114	10	100	0	114	45-146	0			
Surr: 2-Fluorobiphenyl	83.23	10	100	0	83.2	55-120	0			
Surr: 2-Fluorophenol	40.5	10	100	0	40.5	21-110	0			
Surr: 4-Terphenyl-d14	98.21	10	100	0	98.2	42-153	0			
Surr: Nitrobenzene-d5	84.56	10	100	0	84.6	51-117	0			
Surr: Phenol-d6	24.69	10	100	0	24.7	10-110	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: 9307 InstrumentID: SV-2

MS Sample ID: 0406156-01AMS Test Code: SW1311/8270 Units: µg/L Analysis Date: 06/18/04 20:24

Client ID: Run ID: SV-2_040618A SeqNo: 488194 Prep Date: 6/18/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	35.24	10	50	0	70.5	48-119	0			
2,4,6-Trichlorophenol	30.39	10	50	0	60.8	52-119	0			
2,4-Dinitrotoluene	41.36	10	50	0	82.7	46-114	0			
Cresols, Total	17.04	30	150	0	11.4	35-100	0			JS
Hexachlorobenzene	43.29	10	50	0	86.6	60-140	0			
Hexachlorobutadiene	45.97	10	50	0	91.9	47-120	0			
Hexachloroethane	37.91	10	50	0	75.8	47-113	0			
Nitrobenzene	41.17	10	50	0	82.3	55-111	0			
Pentachlorophenol	32.53	10	50	0	65.1	36-120	0			
Pyridine	19.7	10	50	0	39.4	17-80	0			
Surr: 2,4,6-Tribromophenol	58.27	10	100	0	58.3	45-146	0			
Surr: 2-Fluorobiphenyl	82.54	10	100	0	82.5	55-120	0			
Surr: 2-Fluorophenol	16.22	10	100	0	16.2	21-110	0			S
Surr: 4-Terphenyl-d14	98.68	10	100	0	98.7	42-153	0			
Surr: Nitrobenzene-d5	82.42	10	100	0	82.4	51-117	0			
Surr: Phenol-d6	9.707	10	100	0	9.71	10-110	0			JS

MSD Sample ID: 0406156-01AMSD Test Code: SW1311/8270 Units: µg/L Analysis Date: 06/18/04 20:54

Client ID: Run ID: SV-2_040618A SeqNo: 488166 Prep Date: 6/18/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	33.77	10	50	0	67.5	48-119	35.24	4.26	25	
2,4,6-Trichlorophenol	29.23	10	50	0	58.5	52-119	30.39	3.88	25	
2,4-Dinitrotoluene	41.18	10	50	0	82.4	46-114	41.36	0.43	25	
Cresols, Total	16.17	30	150	0	10.8	35-100	17.04	0	25	JS
Hexachlorobenzene	44.96	10	50	0	89.9	60-140	43.29	3.8	25	
Hexachlorobutadiene	46.27	10	50	0	92.5	47-120	45.97	0.637	25	
Hexachloroethane	39.78	10	50	0	79.6	47-113	37.91	4.83	25	
Nitrobenzene	41.5	10	50	0	83	55-111	41.17	0.8	25	
Pentachlorophenol	33.93	10	50	0	67.9	36-120	32.53	4.2	42	
Pyridine	20.08	10	50	0	40.2	17-80	19.7	1.93	25	
Surr: 2,4,6-Tribromophenol	64.22	10	100	0	64.2	45-146	58.27	9.71	25	
Surr: 2-Fluorobiphenyl	81.81	10	100	0	81.8	55-120	82.54	0.888	25	
Surr: 2-Fluorophenol	17.52	10	100	0	17.5	21-110	16.22	7.66	25	S
Surr: 4-Terphenyl-d14	100.6	10	100	0	101	42-153	98.68	1.88	25	
Surr: Nitrobenzene-d5	80.36	10	100	0	80.4	51-117	82.42	2.53	25	
Surr: Phenol-d6	10.18	10	100	0	10.2	10-110	9.707	4.73	25	

The following samples were analyzed in this batch:

0406164-01A 0406164-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: R21166 InstrumentID: VOA2

MBLK Sample ID: VBLKW-0618 Test Code: SW1311/8260 Units: µg/L Analysis Date: 06/18/04 10:38

Client ID: Run ID: VOA2_040618B SeqNo: 487931 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachloroethene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	42.26	0	50	0	84.5	70-130	0			
Surr: 4-Bromofluorobenzene	44.14	0	50	0	88.3	70-130	0			
Surr: Dibromofluoromethane	42.98	0	50	0	86	70-130	0			
Surr: Toluene-d8	46.78	0	50	0	93.6	70-130	0			

MBLK Sample ID: VBLKT1-0617 Test Code: SW1311/8260 Units: µg/L Analysis Date: 06/18/04 18:16

Client ID: Run ID: VOA2_040618B SeqNo: 487937 Prep Date: 6/17/2004 DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	794.5	0	1000	0	79.4	70-130	0			
Surr: 4-Bromofluorobenzene	901.4	0	1000	0	90.1	70-130	0			
Surr: Dibromofluoromethane	838.2	0	1000	0	83.8	70-130	0			
Surr: Toluene-d8	925.1	0	1000	0	92.5	70-130	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: **R21166** InstrumentID: **VOA2**

LCS Sample ID: **VLCSW-0618** Test Code: **SW1311/8260** Units: **µg/L** Analysis Date: **06/18/04 10:12**

Client ID: Run ID: **VOA2_040618B** SeqNo: **487930** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.01	5.0	50	0	96	50.8-126	0			
1,2-Dichloroethane	47.9	5.0	50	0	95.8	70-130	0			
1,4-Dichlorobenzene	48.74	5.0	50	0	97.5	70-130	0			
2-Butanone	107.5	10	100	0	108	70-130	0			
Benzene	47.68	5.0	50	0	95.4	70.1-128	0			
Carbon tetrachloride	46.68	5.0	50	0	93.4	70-130	0			
Chlorobenzene	48.16	5.0	50	0	96.3	72.5-127	0			
Chloroform	46.77	5.0	50	0	93.5	70-130	0			
Tetrachloroethene	48.49	5.0	50	0	97	70-130	0			
Trichloroethene	47.63	5.0	50	0	95.3	72.5-129	0			
Vinyl chloride	45.56	5.0	50	0	91.1	70-130	0			
Surr: 1,2-Dichloroethane-d4	41.2	0	50	0	82.4	65.3-120	0			
Surr: 4-Bromofluorobenzene	44.84	0	50	0	89.7	74.9-120	0			
Surr: Dibromofluoromethane	43.29	0	50	0	86.6	70.5-120	0			
Surr: Toluene-d8	46.03	0	50	0	92.1	72.6-120	0			

MS Sample ID: **0406107-05ZMS** Test Code: **SW1311/8260** Units: **µg/L** Analysis Date: **06/18/04 11:54**

Client ID: Run ID: **VOA2_040618B** SeqNo: **487933** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	46.3	5.0	50	0	92.6	50.8-126	0			
1,2-Dichloroethane	49.27	5.0	50	0	98.5	70-130	0			
1,4-Dichlorobenzene	46.44	5.0	50	0	92.9	70-130	0			
2-Butanone	113.9	10	100	0	114	70-130	0			
Benzene	47.37	5.0	50	0	94.7	70.1-128	0			
Carbon tetrachloride	43.13	5.0	50	0	86.3	70-130	0			
Chlorobenzene	47.07	5.0	50	0	94.1	72.5-127	0			
Chloroform	47.47	5.0	50	0	94.9	70-130	0			
Tetrachloroethene	45.74	5.0	50	1.812	87.9	70-130	0			
Trichloroethene	50.51	5.0	50	3.956	93.1	72.5-129	0			
Vinyl chloride	43.98	5.0	50	0	88	70-130	0			
Surr: 1,2-Dichloroethane-d4	42.76	0	50	0	85.5	65.3-120	0			
Surr: 4-Bromofluorobenzene	44.48	0	50	0	89	74.9-120	0			
Surr: Dibromofluoromethane	43.27	0	50	0	86.5	70.5-120	0			
Surr: Toluene-d8	46.05	0	50	0	92.1	72.6-120	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: R21166 InstrumentID: VOA2

MSD	Sample ID: 0406107-05ZMSD			Test Code: SW1311/8260			Units: µg/L	Analysis Date: 06/18/04 12:19		
Client ID:	Run ID: VOA2_040618B			SeqNo: 487934		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	45.59	5.0	50	0	91.2	50.8-126	46.3	1.54	20	
1,2-Dichloroethane	49.02	5.0	50	0	98	70-130	49.27	0.513	20	
1,4-Dichlorobenzene	44.35	5.0	50	0	88.7	70-130	46.44	4.6	20	
2-Butanone	114.7	10	100	0	115	70-130	113.9	0.683	20	
Benzene	47.06	5.0	50	0	94.1	70.1-128	47.37	0.662	20	
Carbon tetrachloride	42.4	5.0	50	0	84.8	70-130	43.13	1.7	20	
Chlorobenzene	45.7	5.0	50	0	91.4	72.5-127	47.07	2.95	20	
Chloroform	47.25	5.0	50	0	94.5	70-130	47.47	0.457	20	
Tetrachloroethene	44.31	5.0	50	1.812	85	70-130	45.74	3.19	20	
Trichloroethene	49.67	5.0	50	3.956	91.4	72.5-129	50.51	1.68	20	
Vinyl chloride	42.81	5.0	50	0	85.6	70-130	43.98	2.69	20	
Surr: 1,2-Dichloroethane-d4	42.98	0	50	0	86	65.3-120	42.76	0.521	20	
Surr: 4-Bromofluorobenzene	44.58	0	50	0	89.2	74.9-120	44.48	0.225	20	
Surr: Dibromofluoromethane	44.03	0	50	0	88.1	70.5-120	43.27	1.75	20	
Surr: Toluene-d8	46.67	0	50	0	93.3	72.6-120	46.05	1.35	20	

The following samples were analyzed in this batch:

0406164-01A 0406164-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: R21107 InstrumentID: WetChem

LCS Sample ID: WLCSS1-061704 Test Code: SW9045B Units: pH Units Analysis Date: 06/17/04 0:00

Client ID: Run ID: WETCHEM_040617A SeqNo: 486502 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.05	0.10	6	0	101	85-115	0			

DUP Sample ID: 0406177-01ADUP Test Code: SW9045B Units: pH Units Analysis Date: 06/17/04 0:00

Client ID: Run ID: WETCHEM_040617A SeqNo: 486504 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.7	0.10	0	0	0	75-125	8.69	0.115	20	

The following samples were analyzed in this batch:

0406164-01A 0406164-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0406164
Project: Artesia TCLP-(DAF/CAF)

QC BATCH REPORT

Batch ID: **R21116** InstrumentID: **WetChem**

DUP	Sample ID: 0406164-02ADUP			Test Code: SW846, Chpt. Units:			Analysis Date: 06/17/04 0:00			
Client ID: FI. Prec. Solids	Run ID: WETCHEM_040617B		SeqNo: 486740		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Burns vigorously and persistently	ND	0	0	0	0	0-0	0	0	0	
Ignites spontaneously	ND	0	0	0	0	0-0	0	0	0	
Ignites through friction	ND	0	0	0	0	0-0	0	0	0	
Ignites under std. temp and pressur	ND	0	0	0	0	0-0	0	0	0	
Ignites with moisture	ND	0	0	0	0	0-0	0	0	0	

The following samples were analyzed in this batch:

0406164-01A 0406164-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 6/16/2004 8:30:00 AM

Work Order Number 0406164

Received by: RNG

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
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 ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>3.3c</u>	<u>003</u>	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒

Adjusted? _____ Checked by _____

Login Notes: Samples have strong odor.

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

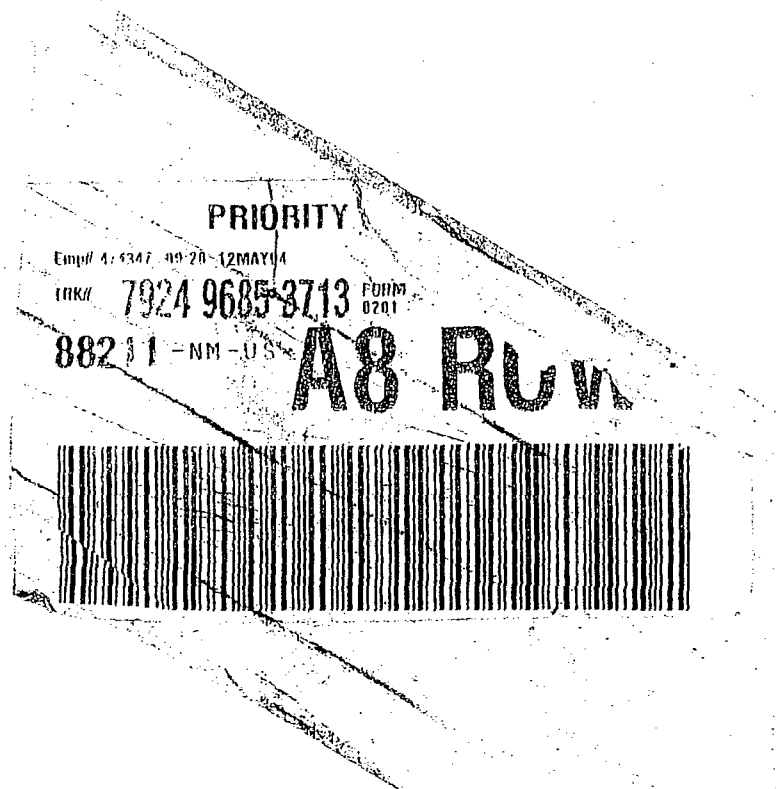
Corrective Action _____

406164



e-Lab, Inc.
10450 Standliff Rd. Suite
Houston, Texas 77099
Tel. 281.530.5656
Fax. 281.530.5887

CUSTOMER SEAL	
Seal Broken By:	
Date:	6/16/04



e-Lab, Inc

Date: June 24, 2004

CLIENT: e-Lab, Inc
Project: 0406164**Work Order:** 0406316**Lab ID:** 0406316-01A
Client Sample ID: 0406164-01B**Collection Date:** 6/15/2004 10:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE Cyanide, Reactive	0.103	0.0300	EPA 7.3.3.2 mg/Kg	1	Analyst: KAE 6/21/2004
SULFIDE, REACTIVE Sulfide, Reactive	ND	40.0	EPA 7.3.4.2 mg/Kg	1	Analyst: KAE 6/21/2004

Lab ID: 0406316-02A
Client Sample ID: 0406164-02B**Collection Date:** 6/15/2004 10:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE Cyanide, Reactive	ND	0.0300	EPA 7.3.3.2 mg/Kg	1	Analyst: KAE 6/24/2004
SULFIDE, REACTIVE Sulfide, Reactive	ND	40.0	EPA 7.3.4.2 mg/Kg	1	Analyst: KAE 6/24/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

AR Page 1 of 1

e-Lab, Inc

CLIENT: e-Lab, Inc

Work Order: 0406316

Project: 0406164

Date: Jun 24 2004

QC BATCH REPORT

Batch ID: R21897 InstrumentID: WETCHEM

MBLK Sample ID: WBLKW1-062104 Test Code: EPA 7.3.3.2 Units: mg/Kg Analysis Date 06/21/04 0:00
Client ID: Run ID: WETCHEM_040621G SeqNo: 320240 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	0.030								

LCS Sample ID: WLCSW1-062104 Test Code: EPA 7.3.3.2 Units: mg/Kg Analysis Date 06/21/04 0:00
Client ID: Run ID: WETCHEM_040621G SeqNo: 320241 Prep Date: DF: 25

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	3.495	0.75	19.71	0	17.7	5-100	0			

The following samples were analyzed in this batch:

0406316-01A 0406316-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: e-Lab, Inc
Work Order: 0406316
Project: 0406164

QC BATCH REPORT

Batch ID: **R21899** InstrumentID: **WETCHEM**

MBLK	Sample ID: WBLKW1-062104	Test Code: EPA 7.3.4.2	Units: mg/Kg	Analysis Date: 06/21/04 0:00						
Client ID:	Run ID: WETCHEM_040621H	SeqNo: 320255	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch:

0406316-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: e-Lab, Inc
Work Order: 0406316
Project: 0406164

QC BATCH REPORT

Batch ID: **R21992** InstrumentID: **WETCHEM**

MBLK	Sample ID: WBLKW1-062404	Test Code: EPA 7.3.4.2	Units: mg/Kg	Analysis Date: 06/24/04 0:00						
Client ID:	Run ID: WETCHEM_040624G	SeqNo: 321792	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch:

0406316-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

Checklist completed by RLV/PH
Signature

6/17/04
Date

Reviewed by [Signature]
Signature

6/17/04
Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present
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 ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature/Thermometer?	<u>3.22</u>		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒

Adjusted?

Checked by

Log Notes

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted

Date contacted

Person contacted

Contacted by

Regarding

Comments:

Corrective Action

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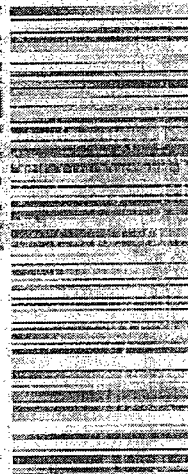
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Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: January 26, 2001

Order ID Number: A01011002

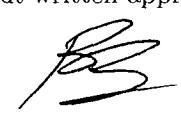
Project Number: N/A
Project Name: DAF
Project Location: Artesia, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
162164	DAF	Sludge	1/9/01	14:00	1/10/01

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 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 162164 - DAF

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC08149 Date Analyzed: 1/11/01
Analyst: RR Preparation Method: N/A Prep Batch: PB07113 Date Prepared: 1/16/01

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		non	mm/yr	1	
pH		7.85	s.u.	1	

Sample: 162164 - DAF

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC08148 Date Analyzed: 1/11/01
Analyst: RR Preparation Method: N/A Prep Batch: PB07112 Date Prepared: 1/16/01

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 162164 - DAF

Analysis: Reactivity Analytical Method: ASTM D 5049-90/4978-95 QC Batch: QC08150 Date Analyzed: 1/11/01
Analyst: RR Preparation Method: N/A Prep Batch: PB07114 Date Prepared: 1/16/01

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 162164 - DAF

Analysis: TCLP Hg Analytical Method: S 7470A QC Batch: QC08042 Date Analyzed: 1/11/01
Analyst: SSC Preparation Method: E 1311 Prep Batch: PB07027 Date Prepared: 1/10/01

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 162164 - DAF

Analysis: TCLP Metals Analytical Method: S 6010B QC Batch: QC08467 Date Analyzed: 1/25/01
Analyst: RR Preparation Method: 1311 Prep Batch: PB07005 Date Prepared: 1/11/01

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<1	mg/L	10	0.10
TCLP Barium		<1	mg/L	10	0.10
TCLP Cadmium		<0.2	mg/L	10	0.02
TCLP Chromium		<1	mg/L	10	0.10
TCLP Lead		<1	mg/L	10	0.10
TCLP Selenium		<1	mg/L	10	0.10
TCLP Silver		<0.5	mg/L	10	0.05

Sample: 162164 - DAF

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC08256 Date Analyzed: 1/18/01
Analyst: RC Preparation Method: 1311 Prep Batch: PB07206 Date Prepared: 1/15/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		21.38	mg/L	1	80	26	20 - 67
Phenol-d5		14.62	mg/L	1	80	18	7 - 55
Nitrobenzene-d5		47.92	mg/L	1	80	59	33 - 116
2-Fluorobiphenyl		42.03	mg/L	1	80	52	47 - 107
2,4,6-Tribromophenol		49.58	mg/L	1	80	61	47 - 113
Terphenyl-d14		55.16	mg/L	1	80	68	47 - 124

Sample: 162164 - DAF

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC08235 Date Analyzed: 1/15/01
Analyst: JG Preparation Method: 1311 Prep Batch: PB07183 Date Prepared: 1/13/01

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<.0025	mg/L	1	0.001
1,1-Dichloroethene		<.0025	mg/L	1	0.001
Methyl ethyl ketone		.054	mg/L	1	0.01
Chloroform		<.0025	mg/L	1	0.001
1,2-Dichloroethane (EDC)		<.0025	mg/L	1	0.001
Benzene		<.0025	mg/L	1	0.001
Carbon Tetrachloride		<.0025	mg/L	1	0.001
Trichloroethene (TCE)		<.0025	mg/L	1	0.001
Tetrachloroethene (PCE)		<.0025	mg/L	1	0.001
Chlorobenzene		<.0025	mg/L	1	0.001
1,4-Dichlorobenzene		<.0025	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53	mg/L	1	50	106	83 - 119
Toluene-d8		50	mg/L	1	50	100	87 - 115
4-Bromofluorobenzene		49.5	mg/L	1	50	99	79 - 112

Quality Control Report Method Blank

Method Blank QCBatch: QC08042

Param	Flag	Results	Units	Reporting Limit
TCLP Mercury		<0.010	mg/L	0.01

Method Blank QCBatch: QC08235

Param	Flag	Results	Units	Reporting Limit
Vinyl Chloride		<.0025	mg/L	0.001
1,1-Dichloroethene		<.0025	mg/L	0.001
Methyl ethyl ketone		<.0250	mg/L	0.01
Chloroform		<.0025	mg/L	0.001
1,2-Dichloroethane (EDC)		<.0025	mg/L	0.001
Benzene		<.0025	mg/L	0.001
Carbon Tetrachloride		<.0025	mg/L	0.001
Trichloroethene (TCE)		<.0025	mg/L	0.001
Tetrachloroethene (PCE)		<.0025	mg/L	0.001
Chlorobenzene		<.0025	mg/L	0.001
1,4-Dichlorobenzene		<.0025	mg/L	0.001

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Dibromofluoromethane		54.5	mg/Kg	50	109	83 - 119
Toluene-d8		51	mg/Kg	50	102	87 - 115
4-Bromofluorobenzene		50	mg/Kg	50	100	79 - 112

Method Blank QCBatch: QC08256

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.05	mg/L	0.05
1,4-Dichlorobenzene		<0.05	mg/L	0.05
o-Cresol		<0.05	mg/L	0.05
m,p-Cresol		<0.05	mg/L	0.05
Hexachloroethane		<0.05	mg/L	0.05
Nitrobenzene		<0.05	mg/L	0.05
Hexachlorobutadiene		<0.05	mg/L	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	0.05
2,4-Dinitrotoluene		<0.05	mg/L	0.05
Hexachlorobenzene		<0.05	mg/L	0.05
Pentachlorophenol		<0.05	mg/L	0.05

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		28.21	mg/Kg	80	35	20 - 67
Phenol-d5		17.37	mg/Kg	80	21	7 - 55
Nitrobenzene-d5		58.61	mg/Kg	80	73	33 - 116
2-Fluorobiphenyl		50.51	mg/Kg	80	63	47 - 107
2,4,6-Tribromophenol		43.44	mg/Kg	80	54	47 - 113
Terphenyl-d14		61.87	mg/Kg	80	77	47 - 124

Method Blank QCBatch: QC08467

Param	Flag	Results	Units	Reporting Limit
TCLP Arsenic		<0.1	mg/Kg	0.10
TCLP Barium		<0.1	mg/Kg	0.10
TCLP Cadmium		<0.02	mg/Kg	0.02
TCLP Chromium		<0.1	mg/Kg	0.10
TCLP Lead		<0.1	mg/Kg	0.10
TCLP Selenium		<0.1	mg/Kg	0.10
TCLP Silver		<0.05	mg/Kg	0.05

Quality Control Report

Lab Control Spikes and Duplicate Spikes

LCS QC Batch: QC08042

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0513	mg/L	1	0.05	<0.010	102		80 - 120	20

LCSD QC Batch: QC08042

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0553	mg/L	1	0.05	<0.010	110	8	80 - 120	20

LCS QC Batch: QC08235

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.19	mg/L	1	5	<.0025	103		47 - 147	20
1,1-Dichloroethene		5.76	mg/L	1	5	<.0025	115		63 - 165	20
Methyl ethyl ketone		4.70	mg/L	1	5	<.0250	94		52 - 160	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Chloroform		4.72	mg/L	1	5	<.0025	94		82 - 128	20
1,2-Dichloroethane (EDC)		4.78	mg/L	1	5	<.0025	95		80 - 127	20
Benzene		5.20	mg/L	1	5	<.0025	104		88 - 126	20
Carbon Tetrachloride		6.04	mg/L	1	5	<.0025	120		52 - 167	20
Trichloroethene (TCE)		5.37	mg/L	1	5	<.0025	107		77 - 131	20
Tetrachloroethene (PCE)		5.00	mg/L	1	5	<.0025	100		66 - 143	20
Chlorobenzene		5.07	mg/L	1	5	<.0025	101		85 - 118	20
1,4-Dichlorobenzene		4.71	mg/L	1	5	<.0025	94		81 - 123	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		51	mg/Kg	1	50	102	83 - 119
Toluene-d8		51	mg/Kg	1	50	102	87 - 115
4-Bromofluorobenzene		50.5	mg/Kg	1	50	101	79 - 112

LCSD

QC Batch: QC08235

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.57	mg/L	1	5	<.0025	111	7	47 - 147	20
1,1-Dichloroethene		5.95	mg/L	1	5	<.0025	119	3	63 - 165	20
Methyl ethyl ketone		5.10	mg/L	1	5	<.0250	102	8	52 - 160	20
Chloroform		4.89	mg/L	1	5	<.0025	97	4	82 - 128	20
1,2-Dichloroethane (EDC)		5.19	mg/L	1	5	<.0025	103	8	80 - 127	20
Benzene		5.33	mg/L	1	5	<.0025	106	2	88 - 126	20
Carbon Tetrachloride		6.06	mg/L	1	5	<.0025	121	0	52 - 167	20
Trichloroethene (TCE)		5.46	mg/L	1	5	<.0025	109	2	77 - 131	20
Tetrachloroethene (PCE)		5.05	mg/L	1	5	<.0025	101	1	66 - 143	20
Chlorobenzene		5.18	mg/L	1	5	<.0025	103	2	85 - 118	20
1,4-Dichlorobenzene		4.88	mg/L	1	5	<.0025	97	4	81 - 123	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		52	mg/Kg	1	50	104	83 - 119
Toluene-d8		50.5	mg/Kg	1	50	101	87 - 115
4-Bromofluorobenzene		51	mg/Kg	1	50	102	79 - 112

LCS

QC Batch: QC08256

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		26.31	mg/L	1	80	<0.05	32		0 - 92	20
1,4-Dichlorobenzene		85.33	mg/L	1	80	<0.05	106		39 - 87	20
o-Cresol		83.59	mg/L	1	80	<0.05	104		41 - 92	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
m,p-Cresol		144.04	mg/L	1	160	<0.05	90		7 - 127	20
Hexachloroethane		80.01	mg/L	1	80	<0.05	100		35 - 85	20
Nitrobenzene		111.98	mg/L	1	80	<0.05	139		43 - 108	20
Hexachlorobutadiene		96.84	mg/L	1	80	<0.05	121		38 - 89	20
2,4,6-Trichlorophenol		101.67	mg/L	1	80	<0.05	127		47 - 107	20
2,4,5-Trichlorophenol		104.72	mg/L	1	80	<0.05	130		49 - 105	20
2,4-Dinitrotoluene		167.73	mg/L	1	80	<0.05	209		49 - 105	20
Hexachlorobenzene		126.39	mg/L	1	80	<0.05	157		47 - 122	20
Pentachlorophenol		125.90	mg/L	1	80	<0.05	157		33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		29.47	mg/Kg	1	80	36	20 - 67
Phenol-d5		18.06	mg/Kg	1	80	22	7 - 55
Nitrobenzene-d5		65.11	mg/Kg	1	80	81	33 - 116
2-Fluorobiphenyl		56.06	mg/Kg	1	80	70	47 - 107
2,4,6-Tribromophenol		56.33	mg/Kg	1	80	70	47 - 113
Terphenyl-d14		69.82	mg/Kg	1	80	87	47 - 124

LCSD

QC Batch: QC08256

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		27.66	mg/L	1	80	<0.05	34	5	0 - 92	20
1,4-Dichlorobenzene		85.34	mg/L	1	80	<0.05	106	0	39 - 87	20
o-Cresol		83.97	mg/L	1	80	<0.05	104	0	41 - 92	20
m,p-Cresol		144.13	mg/L	1	160	<0.05	90	0	7 - 127	20
Hexachloroethane		80.51	mg/L	1	80	<0.05	100	1	35 - 85	20
Nitrobenzene		114.89	mg/L	1	80	<0.05	143	2	43 - 108	20
Hexachlorobutadiene		97.03	mg/L	1	80	<0.05	121	0	38 - 89	20
2,4,6-Trichlorophenol		103.20	mg/L	1	80	<0.05	129	1	47 - 107	20
2,4,5-Trichlorophenol		104.76	mg/L	1	80	<0.05	130	0	49 - 105	20
2,4-Dinitrotoluene		174.45	mg/L	1	80	<0.05	218	4	49 - 105	20
Hexachlorobenzene		125.39	mg/L	1	80	<0.05	156		47 - 122	20
Pentachlorophenol		129.22	mg/L	1	80	<0.05	161		33 - 99	20
Test Comments	1	*		1			0		0 - 130	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		29.50	mg/Kg	1	80	36	20 - 67
Phenol-d5		18.24	mg/Kg	1	80	22	7 - 55
Nitrobenzene-d5		65.88	mg/Kg	1	80	82	33 - 116
2-Fluorobiphenyl		56.05	mg/Kg	1	80	70	47 - 107
2,4,6-Tribromophenol		57.53	mg/Kg	1	80	71	47 - 113
Terphenyl-d14		68.26	mg/Kg	1	80	85	47 - 124

¹LCS/LCSD were spiked twice during extration.

LCS QC Batch: QC08467

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		19.2	mg/Kg	10	20	<0.1	96		75 - 125	20
TCLP Barium		40.5	mg/Kg	10	40	<0.1	101		75 - 125	20
TCLP Cadmium		10	mg/Kg	10	10	<0.02	100		75 - 125	20
TCLP Chromium		4.13	mg/Kg	10	4	<0.1	103		75 - 125	20
TCLP Lead		19.9	mg/Kg	10	20	<0.1	99		75 - 125	20
TCLP Selenium		16.7	mg/Kg	10	20	<0.1	83		75 - 125	20
TCLP Silver		1.95	mg/Kg	10	2	<0.05	97		75 - 125	20

LCSD QC Batch: QC08467

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		19.1	mg/Kg	10	20	<0.1	95	0	75 - 125	20
TCLP Barium		41.6	mg/Kg	10	40	<0.1	104	3	75 - 125	20
TCLP Cadmium		10.3	mg/Kg	10	10	<0.02	103	3	75 - 125	20
TCLP Chromium		4.28	mg/Kg	10	4	<0.1	107	4	75 - 125	20
TCLP Lead		20.1	mg/Kg	10	20	<0.1	100	1	75 - 125	20
TCLP Selenium		16.9	mg/Kg	10	20	<0.1	84	1	75 - 125	20
TCLP Silver		1.97	mg/Kg	10	2	<0.05	98	1	75 - 125	20

Quality Control Report Matrix Spikes and Duplicate Spikes

MS QC Batch: QC08042

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0528	mg/L	1	0.05	<0.010	100		80 - 120	20

MSD QC Batch: QC08042

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0542	mg/L	1	0.05	<0.010	100	0	80 - 120	20

MS QC Batch: QC08235

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.18	mg/L	1	5	<.0025	103		47 - 147	20
1,1-Dichloroethene		5.92	mg/L	1	5	<.0025	118		63 - 165	20
Methyl ethyl ketone		6.04	mg/L	1	5	.054	119		52 - 160	20
Chloroform		4.94	mg/L	1	5	<.0025	98		82 - 128	20
1,2-Dichloroethane (EDC)		5.30	mg/L	1	5	<.0025	106		80 - 127	20
Benzene		5.35	mg/L	1	5	<.0025	107		88 - 126	20
Carbon Tetrachloride		5.90	mg/L	1	5	<.0025	118		52 - 167	20
Trichloroethene (TCE)		5.44	mg/L	1	5	<.0025	108		77 - 131	20
Tetrachloroethene (PCE)		5.01	mg/L	1	5	<.0025	100		66 - 143	20
Chlorobenzene		5.12	mg/L	1	5	<.0025	102		85 - 118	20
1,4-Dichlorobenzene		4.79	mg/L	1	5	<.0025	95		81 - 123	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		53.5	mg/Kg	1	50	107	83 - 119
Toluene-d8		51	mg/Kg	1	50	102	87 - 115
4-Bromofluorobenzene		51	mg/Kg	1	50	102	79 - 112

MSD

QC Batch: QC08235

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.03	mg/L	1	5	<.0025	100	3	47 - 147	20
1,1-Dichloroethene		5.76	mg/L	1	5	<.0025	115	3	63 - 165	20
Methyl ethyl ketone		6.56	mg/L	1	5	.054	130	8	52 - 160	20
Chloroform		5.03	mg/L	1	5	<.0025	100	2	82 - 128	20
1,2-Dichloroethane (EDC)		5.60	mg/L	1	5	<.0025	112	6	80 - 127	20
Benzene		5.35	mg/L	1	5	<.0025	107	0	88 - 126	20
Carbon Tetrachloride		5.92	mg/L	1	5	<.0025	118	0	52 - 167	20
Trichloroethene (TCE)		5.47	mg/L	1	5	<.0025	109	0	77 - 131	20
Tetrachloroethene (PCE)		4.95	mg/L	1	5	<.0025	99	1	66 - 143	20
Chlorobenzene		5.17	mg/L	1	5	<.0025	103	1	85 - 118	20
1,4-Dichlorobenzene		4.91	mg/L	1	5	<.0025	98	2	81 - 123	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		55	mg/Kg	1	50	110	83 - 119
Toluene-d8		51	mg/Kg	1	50	102	87 - 115
4-Bromofluorobenzene		50.5	mg/Kg	1	50	101	79 - 112

MS

QC Batch: QC08467

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		19.2	mg/Kg	10	20	<1	0		75 - 125	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Barium		40.5	mg/Kg	10	40	<1	0		75 - 125	20
TCLP Cadmium		9.99	mg/Kg	10	10	<0.2	0		75 - 125	20
TCLP Chromium		5.68	mg/Kg	10	4	<1	0		75 - 125	20
TCLP Lead		20	mg/Kg	10	20	<1	0		75 - 125	20
TCLP Selenium		16.7	mg/Kg	10	20	<1	0		75 - 125	20
TCLP Silver		3.64	mg/Kg	10	2	<0.5	0		75 - 125	20

MSD

QC Batch: QC08467

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		18.9	mg/Kg	10	20	<1	0	0	75 - 125	20
TCLP Barium		39.6	mg/Kg	10	40	<1	0	0	75 - 125	20
TCLP Cadmium		9.72	mg/Kg	10	10	<0.2	0	0	75 - 125	20
TCLP Chromium		4.96	mg/Kg	10	4	<1	124	14	75 - 125	20
TCLP Lead		19.4	mg/Kg	10	20	<1	0	0	75 - 125	20
TCLP Selenium		16.4	mg/Kg	10	20	<1	0	0	75 - 125	20
TCLP Silver		3.37	mg/Kg	10	2	<0.5	168	8	75 - 125	20

Quality Control Report Duplicate Samples

Duplicate

QC Batch: QC08148

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Ignitability		non	non-ignitable		1	0	20

Duplicate

QC Batch: QC08149

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Corrosivity		non	non	mm/yr	1	0	20
pH		7.81	7.85	s.u.	1	0	20

Duplicate

QC Batch: QC08150

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Reactivity		non	Non-reactive		1	0	20
Hydrogen Cyanide		<2.5	<2.5		1	0	20
Hydrogen Sulfide		<10	<10		1	0	20

Quality Control Report

Continuing Calibration Verification Standards

CCV (1) QC Batch: QC08042

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.005	0.00498	99	80 - 120	1/11/01

ICV (1) QC Batch: QC08042

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.005	0.00548	109	80 - 120	1/11/01

CCV (1) QC Batch: QC08235

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		mg/L	100	99	99	80 - 120	1/15/01
1,1-Dichloroethene		mg/L	100	105	105	80 - 120	1/15/01
Methyl ethyl ketone		mg/L	100	93	93	80 - 120	1/15/01
Chloroform		mg/L	100	93	93	80 - 120	1/15/01
1,2-Dichloroethane (EDC)		mg/L	100	99	99	80 - 120	1/15/01
Benzene		mg/L	100	99	99	80 - 120	1/15/01
Carbon Tetrachloride		mg/L	100	109	109	80 - 120	1/15/01
Trichloroethene (TCE)		mg/L	100	100	100	80 - 120	1/15/01
Tetrachloroethene (PCE)		mg/L	100	101	101	80 - 120	1/15/01
Chlorobenzene		mg/L	100	103	103	80 - 120	1/15/01
1,4-Dichlorobenzene		mg/L	100	92	92	80 - 120	1/15/01
Dibromofluoromethane		mg/L	50	49.5	99	80 - 120	1/15/01
Toluene-d8		mg/L	50	48.5	97	80 - 120	1/15/01
4-Bromofluorobenzene		mg/L	50	51.5	103	80 - 120	1/15/01

CCV (1) QC Batch: QC08256

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Pyridine		mg/L	60	61.96	103	80 - 120	1/18/01
1,4-Dichlorobenzene		mg/L	60	61.09	101	80 - 120	1/18/01
o-Cresol		mg/L	60	61.23	102	80 - 120	1/18/01
m,p-Cresol		mg/L	60	55.50	92	80 - 120	1/18/01
Hexachloroethane		mg/L	60	58.04	96	80 - 120	1/18/01
Nitrobenzene		mg/L	60	64.31	107	80 - 120	1/18/01

Continued ...

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexachlorobutadiene		mg/L	60	60.03	100	80 - 120	1/18/01
2,4,6-Trichlorophenol		mg/L	60	56.79	94	80 - 120	1/18/01
2,4,5-Trichlorophenol		mg/L	60	53.97	89	80 - 120	1/18/01
2,4-Dinitrotoluene		mg/L	60	71.67	119	80 - 120	1/18/01
Hexachlorobenzene		mg/L	60	65.45	109	80 - 120	1/18/01
Pentachlorophenol		mg/L	60	71.95	119	80 - 120	1/18/01
2-Fluorophenol		mg/L	60	61.06	101	80 - 120	1/18/01
Phenol-d5		mg/L	60	58.85	98	80 - 120	1/18/01
Nitrobenzene-d5		mg/L	60	64.23	107	80 - 120	1/18/01
2-Fluorobiphenyl		mg/L	60	55.99	93	80 - 120	1/18/01
2,4,6-Tribromophenol		mg/L	60	64.71	107	80 - 120	1/18/01
Terphenyl-d14		mg/L	60	68.40	114	80 - 120	1/18/01

CCV (1) QC Batch: QC08467

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/Kg	2	5.02	251	75 - 125	1/25/01
TCLP Barium		mg/Kg	10	10.1	101	75 - 125	1/25/01
TCLP Cadmium		mg/Kg	2.50	2.51	100	75 - 125	1/25/01
TCLP Chromium		mg/Kg	1	0.998	99	75 - 125	1/25/01
TCLP Lead		mg/Kg	5	4.92	98	75 - 125	1/25/01
TCLP Selenium		mg/Kg	5	5.01	100	75 - 125	1/25/01
TCLP Silver		mg/Kg	1.25	1.24	99	75 - 125	1/25/01

ICV (1) QC Batch: QC08467

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/Kg	2	5.04	252	75 - 125	1/25/01
TCLP Barium		mg/Kg	10	10.1	101	75 - 125	1/25/01
TCLP Cadmium		mg/Kg	2.50	2.54	101	75 - 125	1/25/01
TCLP Chromium		mg/Kg	1	1.01	101	75 - 125	1/25/01
TCLP Lead		mg/Kg	5	4.99	99	75 - 125	1/25/01
TCLP Selenium		mg/Kg	5	5.02	100	75 - 125	1/25/01
TCLP Silver		mg/Kg	1.25	1.24	99	75 - 125	1/25/01

162164

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TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name: NAVAJO

Address: 501 E. Main
Solar

Contact Person: Darrell Moore or Charlie Phymak

Invoice to:
(If different from above)

Project #:

Project Location: Artesia

Project Name: DAF

Sampler Signature: Charlie Phymak

LAB #
(LAB USE ONLY)

162164 DAF

FIELD CODE

CONTAINERS

1

VOLUME/AMOUNT

1 L

MATRIX

WATER

SOIL

AIR

SLUDGE

PRESERVATIVE METHOD

HCL

HNO3

ICE

NONE

SAMPLING DATE

4/9/01 1400

TIME

LAB USE ONLY

LAB Order ID # AD01011002

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602

BTEX 8021B/602

TPH 418, 1/TX1005

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC-MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

PCBs 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Turn Around Time if different from standard

Hold

REMARKS:

LAB USE ONLY

Intact: Y / N
Headspace: Y / N
Temp: -2
Log in Review: 77

1/29/01

Relinquished by: Charlie Phymak Date: 4/9/01 Time: 1615

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received at Laboratory by: Charlie Phymak Date: 4/10/01 Time: 1000

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

Carrier # 4440 32 2333-635

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING

Attention: Darrell Moore or Charlie Plymale

501 E. Main

Artesia, NM 88210

November 08, 2000

Receiving Date: 10/27/1000

Sample Type: Solid

Project No: NA

Project Location: Artesia, NM

Extraction Date: 11/05/2000

Analysis Date: 11/06/2000

Sampling Date: 10/25/2000

Sample Condition: Intact & Cool

Sample Received by: VH

Project Name: DAF

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T157321 DAF	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.10	ND	96	1	105	96
1,1-Dichloroethene	0.70	0.10	ND	112	3	132	112
Methyl Ethyl Ketone	200.0	0.50	ND	111	16	110	111
Chloroform	6.00	0.10	ND	98	4	104	98
1,2-Dichloroethane	0.50	0.10	ND	98	9	102	98
Benzene	0.50	0.10	ND	94	0	101	94
Carbon Tetrachloride	0.50	0.10	ND	113	3	126	113
Trichloroethene	0.50	0.10	ND	104	2	115	104
Tetrachloroethene	0.70	0.10	ND	97	6	106	97
Chlorobenzene	100.00	0.10	ND	101	0	105	101
1,4-Dichlorobenzene	7.50	0.10	ND	103	3	113	103

SURROGATES

% Recovery

Dibromofluoromethane 100
Toluene-d8 100
4-Bromofluorobenzene 102

ND = Not Detected

METHODS: EPA SW 846-1311, 8260B.

CHEMIST: JG



Director, Dr. Blair Leftwich



DATE



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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: November 10, 2000

Order ID Number: A00102734

Project Number: N/A
Project Name: DAF
Project Location: Artesia, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
157321	DAF	Solid	10/25/00	15:30	10/27/00

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

Analytical and Quality Control Report

Sample: 157321 - DAF

Analysis: TCLP Hg Analytical Method: S 7470A QC Batch: QC06386 Date Analyzed: 11/9/00
Analyst: SSC Preparation Method: E 1311 Prep Batch: PB05580 Date Prepared: 11/9/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Quality Control Report Method Blank

Sample: Method Blank QC Batch: QC06386

Param	Flag	Results	Units	Reporting Limit
TCLP Mercury		<0.010	mg/L	0.01

Quality Control Report Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC06386

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0498	mg/L	1	0.05	<0.010	99		80 - 120	20

Sample: LCSD QC Batch: QC06386

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0534	mg/L	1	0.05	<0.010	106	7	80 - 120	20

Quality Control Report Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC06386

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0517	mg/L	1	0.05	<0.010	103		80 - 120	20

Sample: MSD QC Batch: QC06386

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0527	mg/L	1	0.05	<0.010	105	2	80 - 120	20

Quality Control Report

Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC06386

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.005	0.00487	97	80 - 120	11/9/00



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Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: November 8, 2000

Order ID Number: A00102734

Project Number: N/A
Project Name: DAF
Project Location: Artesia, NM

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
157321	DAF	Solid	10/25/00	15:30	10/27/00

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.

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Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 157321 - DAF

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC06341 Date Analyzed: 11/8/00
Analyst: TL Preparation Method: N/A Prep Batch: PB05546 Date Prepared: 11/8/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non-corrosive	mm/yr	1	
pH		7.10	s.u.	1	

Sample: 157321 - DAF

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC06342 Date Analyzed: 11/8/00
Analyst: TL Preparation Method: Prep Batch: PB05547 Date Prepared: 11/8/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 157321 - DAF

Analysis: Reactivity Analytical Method: S 7.3 QC Batch: QC06340 Date Analyzed: 11/8/00
Analyst: TL Preparation Method: N/A Prep Batch: PB05545 Date Prepared: 11/8/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 157321 - DAF

Analysis: TCLP Metals Analytical Method: S 6010B QC Batch: QC06212 Date Analyzed: 11/2/00
Analyst: RR Preparation Method: 1311 Prep Batch: PB05343 Date Prepared: 11/1/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<1	mg/L	10	0.10
TCLP Barium		<1	mg/L	10	0.10
TCLP Cadmium		<0.2	mg/L	10	0.20
TCLP Chromium		<1	mg/L	10	0.10
TCLP Lead		<1	mg/L	10	0.10
TCLP Selenium		<1	mg/L	10	0.10
TCLP Silver		<0.5	mg/L	10	0.05

Sample: 157321 - DAF

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC06181 Date Analyzed: 11/2/00
Analyst: MA Preparation Method: 1311 Prep Batch: PB05397 Date Prepared: 11/1/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		29.42	mg/Kg	1	80	36	20 - 67
Phenol-d5		18.41	mg/Kg	1	80	23	7 - 55
Nitrobenzene-d5		60.67	mg/Kg	1	80	75	33 - 116
2-Fluorobiphenyl		59.96	mg/Kg	1	80	74	47 - 107
2,4,6-Tribromophenol		61.07	mg/Kg	1	80	76	47 - 113
Terphenyl-d14		63.95	mg/Kg	1	80	79	47 - 124

Quality Control Report Method Blank

Sample: Method Blank

QCBatch: QC06181

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.05	mg/L	0.05
1,4-Dichlorobenzene		<0.05	mg/L	0.05
o-Cresol		<0.05	mg/L	0.05
m,p-Cresol		<0.05	mg/L	0.05
Hexachloroethane		<0.05	mg/L	0.05
Nitrobenzene		<0.05	mg/L	0.05
Hexachlorobutadiene		<0.05	mg/L	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	0.05
2,4-Dinitrotoluene		<0.05	mg/L	0.05
2,4-D		<0.05	mg/L	0.05
Hexachlorobenzene		<0.05	mg/L	0.05
2,4,5-TP		<0.05	mg/L	0.05
Pentachlorophenol		<0.05	mg/L	0.05

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		32.16	mg/Kg	80	40	20 - 67
Phenol-d5		21.39	mg/Kg	80	26	7 - 55
Nitrobenzene-d5		67.67	mg/Kg	80	84	33 - 116
2-Fluorobiphenyl		64.38	mg/Kg	80	80	47 - 107
2,4,6-Tribromophenol		66.36	mg/Kg	80	82	47 - 113
Terphenyl-d14		68.24	mg/Kg	80	85	47 - 124

Sample: Method Blank

QCBatch: QC06212

Param	Flag	Results	Units	Reporting Limit
TCLP Arsenic		<0.1	mg/L	0.10
TCLP Barium		<0.1	mg/L	0.10
TCLP Cadmium		<0.02	mg/L	0.20
TCLP Chromium		<0.1	mg/L	0.10
TCLP Lead		<0.1	mg/L	0.10
TCLP Selenium		<0.1	mg/L	0.10
TCLP Silver		<0.05	mg/L	0.05

Quality Control Report

Lab Control Spikes and Duplicate Spikes

Sample: LCS

QC Batch: QC06181

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		21.98	mg/L	1	80	<0.05	27		0 - 92	20
1,4-Dichlorobenzene		87.71	mg/L	1	80	<0.05	109		39 - 87	20
o-Cresol		60.34	mg/L	1	80	<0.05	75		41 - 92	20
m,p-Cresol		103.47	mg/L	1	160	<0.05	64		7 - 127	20
Hexachloroethane		97.23	mg/L	1	80	<0.05	121		35 - 85	20
Nitrobenzene		105.58	mg/L	1	80	<0.05	131		43 - 108	20
Hexachlorobutadiene		104.25	mg/L	1	80	<0.05	130		38 - 89	20
2,4,6-Trichlorophenol		98.11	mg/L	1	80	<0.05	122		47 - 107	20
2,4,5-Trichlorophenol		97.88	mg/L	1	80	<0.05	122		49 - 105	20
2,4-Dinitrotoluene		111.08	mg/L	1	80	<0.05	138		49 - 105	20
2,4-D		79.21	mg/L	1	80	<0.05	99		0 - 127	20
Hexachlorobenzene		92.86	mg/L	1	80	<0.05	116		47 - 122	20
2,4,5-TP		129.11	mg/L	1	80	<0.05	161		0 - 130	20
Pentachlorophenol		81.70	mg/L	1	80	<0.05	102		33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		37.49	mg/Kg	1	80	46	20 - 67
Phenol-d5		22.29	mg/Kg	1	80	27	7 - 55
Nitrobenzene-d5		80.60	mg/Kg	1	80	100	33 - 116
2-Fluorobiphenyl		78.21	mg/Kg	1	80	97	47 - 107
2,4,6-Tribromophenol		72.16	mg/Kg	1	80	90	47 - 113
Terphenyl-d14		75.67	mg/Kg	1	80	94	47 - 124

Sample: LCSD

QC Batch: QC06181

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		20.59	mg/L	1	80	<0.05	25	6	0 - 92	20
1,4-Dichlorobenzene		89.09	mg/L	1	80	<0.05	111	2	39 - 87	20
o-Cresol		60.47	mg/L	1	80	<0.05	75	0	41 - 92	20
m,p-Cresol		104.45	mg/L	1	160	<0.05	65	1	7 - 127	20
Hexachloroethane		99.02	mg/L	1	80	<0.05	123	2	35 - 85	20
Nitrobenzene		103.12	mg/L	1	80	<0.05	128	2	43 - 108	20
Hexachlorobutadiene		105.56	mg/L	1	80	<0.05	131	1	38 - 89	20
2,4,6-Trichlorophenol		97.36	mg/L	1	80	<0.05	121	1	47 - 107	20
2,4,5-Trichlorophenol		94.62	mg/L	1	80	<0.05	118	3	49 - 105	20
2,4-Dinitrotoluene		107.24	mg/L	1	80	<0.05	134	4	49 - 105	20
2,4-D		73.53	mg/L	1	80	<0.05	91	7	0 - 127	20
Hexachlorobenzene		93.86	mg/L	1	80	<0.05	117	1	47 - 122	20
2,4,5-TP		122.00	mg/L	1	80	<0.05	152	6	0 - 130	20
Pentachlorophenol		77.91	mg/L	1	80	<0.05	97	5	33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		37.85	mg/Kg	1	80	47	20 - 67
Phenol-d5		22.50	mg/Kg	1	80	28	7 - 55
Nitrobenzene-d5		80.33	mg/Kg	1	80	100	33 - 116
2-Fluorobiphenyl		78.22	mg/Kg	1	80	97	47 - 107
2,4,6-Tribromophenol		68.42	mg/Kg	1	80	85	47 - 113
Terphenyl-d14		80.44	mg/Kg	1	80	100	47 - 124

Sample: LCS

QC Batch: QC06212

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.53	mg/L	10	10	<0.1	95		75 - 125	20
TCLP Barium		19.8	mg/L	10	20	<0.1	99		75 - 125	20
TCLP Cadmium		< 2	mg/L	10	2	<0.02	97		75 - 125	20
TCLP Chromium		6.48	mg/L	10	4	<0.1	162		75 - 125	20
TCLP Lead		9.56	mg/L	10	10	<0.1	95		75 - 125	20

Continued ...

... Continued

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Selenium		8.41	mg/L	10	10	<0.1	84		75 - 125	20
TCLP Silver		1.9	mg/L	10	2	<0.05	95		75 - 125	20

Sample: LCSD

QC Batch: QC06212

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.75	mg/L	10	10	<0.1	97	2	75 - 125	20
TCLP Barium		20.3	mg/L	10	20	<0.1	101	2	75 - 125	20
TCLP Cadmium		< 2	mg/L	10	2	<0.02	99	2	75 - 125	20
TCLP Chromium		5	mg/L	10	4	<0.1	125	26	75 - 125	20
TCLP Lead		9.8	mg/L	10	10	<0.1	98	2	75 - 125	20
TCLP Selenium		8.81	mg/L	10	10	<0.1	88	5	75 - 125	20
TCLP Silver		1.94	mg/L	10	2	<0.05	97	2	75 - 125	20

Quality Control Report Matrix Spikes and Duplicate Spikes

Sample: MS

QC Batch: QC06212

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.65	mg/L	10	10	<1	96		75 - 125	20
TCLP Barium		19.8	mg/L	10	20	<1	99		75 - 125	20
TCLP Cadmium		< 2	mg/L	10	2	<0.2	98		75 - 125	20
TCLP Chromium		4.27	mg/L	10	4	<1	106		75 - 125	20
TCLP Lead		9.57	mg/L	10	10	<1	95		75 - 125	20
TCLP Selenium		8.33	mg/L	10	10	<1	83		75 - 125	20
TCLP Silver		1.88	mg/L	10	2	<0.5	94		75 - 125	20

Sample: MSD

QC Batch: QC06212

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.5	mg/L	10	10	<1	95	2	75 - 125	20
TCLP Barium		20.1	mg/L	10	20	<1	100	2	75 - 125	20
TCLP Cadmium		< 2	mg/L	10	4	<0.2	48	68	75 - 125	20
TCLP Chromium		4.27	mg/L	10	4	<1	106	0	75 - 125	20

Continued ...

... Continued

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Lead		9.56	mg/L	10	10	<1	95	0	75 - 125	20
TCLP Selenium		8.25	mg/L	10	10	<1	82	1	75 - 125	20
TCLP Silver		1.91	mg/L	10	2	<0.5	95	2	75 - 125	20

Quality Control Report Duplicate Samples

Sample: Duplicate

QC Batch: QC06340

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Reactivity		Non-reactive	Non-reactive		1	0	20
Hydrogen Sulfide		<10	<10		1	0	20
Hydrogen Cyanide		<2.5	<2.5		1	0	20

Sample: Duplicate

QC Batch: QC06342

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Ignitability		Non-ignitable	non-ignitable		1	0	20

Quality Control Report Continuing Calibration Verification Standards

Sample: CCV (1)

QC Batch: QC06181

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Pyridine		mg/L	60	64.88	108	0 - 92	11/2/00
1,4-Dichlorobenzene		mg/L	60	61.07	101	39 - 87	11/2/00
o-Cresol		mg/L	60	63.66	106	41 - 92	11/2/00
m,p-Cresol		mg/L	60	64.92	108	7 - 127	11/2/00
Hexachloroethane		mg/L	60	64.31	107	35 - 85	11/2/00
Nitrobenzene		mg/L	60	64.51	107	43 - 108	11/2/00
Hexachlorobutadiene		mg/L	60	60.90	101	38 - 89	11/2/00
2,4,6-Trichlorophenol		mg/L	60	64.30	107	47 - 107	11/2/00
2,4,5-Trichlorophenol		mg/L	60	64.89	108	49 - 105	11/2/00

Continued ...

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
2,4-Dinitrotoluene		mg/L	60	62.72	104	49 - 105	11/2/00
2,4-D		mg/L	60	59.97	99	0 - 127	11/2/00
Hexachlorobenzene		mg/L	60	55.34	92	47 - 122	11/2/00
2,4,5-TP		mg/L	60	59.78	99	0 - 130	11/2/00
Pentachlorophenol		mg/L	60	59.48	99	33 - 99	11/2/00
2-Fluorophenol		mg/L	60	63.15	105	20 - 67	11/2/00
Phenol-d5		mg/L	60	61.37	102	7 - 55	11/2/00
Nitrobenzene-d5		mg/L	60	65.49	109	33 - 116	11/2/00
2-Fluorobiphenyl		mg/L	60	61.41	102	47 - 107	11/2/00
2,4,6-Tribromophenol		mg/L	60	55.29	92	47 - 113	11/2/00
Terphenyl-d14		mg/L	60	68.07	113	47 - 124	11/2/00

Sample: CCV (1)

QC Batch: QC06212

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.49	99	75 - 125	11/2/00
TCLP Barium		mg/L	5	4.99	99	75 - 125	11/2/00
TCLP Cadmium		mg/L	0.50	0.491	98	75 - 125	11/2/00
TCLP Chromium		mg/L	1	0.991	99	75 - 125	11/2/00
TCLP Lead		mg/L	2.50	2.49	99	75 - 125	11/2/00
TCLP Selenium		mg/L	2.50	2.49	99	75 - 125	11/2/00
TCLP Silver		mg/L	0.50	0.5	100	75 - 125	11/2/00

Sample: ICV (1)

QC Batch: QC06212

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.53	101	75 - 125	11/2/00
TCLP Barium		mg/L	5	5.09	101	75 - 125	11/2/00
TCLP Cadmium		mg/L	0.50	0.509	101	75 - 125	11/2/00
TCLP Chromium		mg/L	1	1.01	101	75 - 125	11/2/00
TCLP Lead		mg/L	2.50	2.55	102	75 - 125	11/2/00
TCLP Selenium		mg/L	2.50	2.54	101	75 - 125	11/2/00
TCLP Silver		mg/L	0.50	0.506	101	75 - 125	11/2/00

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TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name: NAVAJO

Address: (Street, City, Zip) 505 748 3311

Contact Person: 505 746 5421

Invoice to: Darrell Moore or Charlie Pymale

(If different from above)

Project #: DAF

Project Location: Artesia

LAB #
(LAB USE ONLY)

157321

FIELD CODE
DAF

Volume/Amount
1 12

CONTAINERS
1

MATRIX
WATER
SOIL
AIR
SLUDGE

PRESERVATIVE METHOD
HCL
HNO3
NaHSO4
H2SO4
NaOH
ICE
NONE

SAMPLING
DATE
TIME

10/25/00
1530

LAB Order ID # 100102734

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1/TX1005

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC-MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

PCBs 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Hold

Turn Around Time if different from standard

REMARKS:

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp /

Log-in Review

11/8

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Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING

Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

Sampling Date: 06/23/00
Sample Condition: I & C
Sample Received by: VH
Project Name:

July 11, 2000
Receiving Date: 06/24/00
Sample Type: Sludge
Project #: N/A
Project Location:

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
T148725	EPA LIMIT = DAF	5.0 0.18	100 0.38	1.0 <0.02	5.0 <0.05	5.0 <0.10	1.0 <0.10	5.0 <0.05	0.20 <0.010
ICV		2.50	5.02	0.50	1.00	2.50	2.52	0.50	0.00516
CCV		2.50	5.01	0.50	0.99	2.50	2.51	0.50	0.00485
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.10	0.05	0.010
RPD		1	1	1	1	1	0	3	2
% Extraction Accuracy		94	102	90	92	91	82	82	114
% Instrument Accuracy		100	101	100	99	100	101	100	103
EXTRACTION DATE:	6/27/00	6/27/00	6/27/00	6/27/00	6/27/00	6/27/00	6/27/00	6/27/00	6/27/00
ANALYSIS DATE:	6/30/00	6/30/00	6/30/00	6/30/00	6/30/00	6/30/00	6/30/00	6/30/00	6/29/00

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 2.0 mg/L As, Se Cd, Cr, Pb; Ba 1.0 mg/L; 0.40 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 2.5 mg/L As, Pb, Se; 0.50 mg/L Ag, Cd; 5.0 mg/L Ba; 1.0 mg/L Cr; Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

7-11-00

Date

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A

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

July 11, 2000

Receiving Date: 06/24/00

Sample Type: Sludge

Project #: N/A

Project Location:

ANALYTICAL RESULTS FOR

NAVAJO REFINING

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

Extraction Date: 06/2600

Analysis Date: 06/26/00

Sampling Date: 06/23/00

Sample Condition: I & C

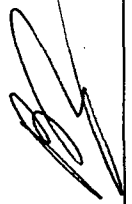
Sample Received by: VH

Project Name:

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
T148725	EPA LIMIT = DAF	--- Non-reactive	500 <10	250 <2.5	--- Non-corrosive	<2 >12.5 7.21	--- Non-ignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy	100	100	100	100	100	100	100
% Instrument Accuracy	---	---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: MS



Director, Dr. Blair Leftwich

7-11-00

Date



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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Bryan Madrid
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: July 11, 2000

Order ID Number: A00062406

Project Number: N/A
Project Name: DAF
Project Location: Artesia, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
148725	DAF	Sludge	6/23/00	15:30	6/24/00

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 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 148725 - DAF

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC03639 Date Analyzed: 7/7/00
Analyst: MA Preparation Method: E 3510C Prep Batch: PB03138 Date Prepared: 6/30/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.10	mg/L	2	0.05
1,4-Dichlorobenzene		<0.10	mg/L	2	0.05
o-Cresol		<0.10	mg/L	2	0.05
m,p-Cresol		0.11	mg/L	2	0.05
Hexachloroethane		<0.10	mg/L	2	0.05
Nitrobenzene		<0.10	mg/L	2	0.05
Hexachlorobutadiene		<0.10	mg/L	2	0.05
2,4,6-Trichlorophenol		<0.10	mg/L	2	0.05
2,4,5-Trichlorophenol		<0.10	mg/L	2	0.05
2,4-Dinitrotoluene		<0.10	mg/L	2	0.05
2,4-D		<0.10	mg/L	2	0.05
Hexachlorobenzene		<0.10	mg/L	2	0.05
2,4,5-TP		<0.10	mg/L	2	0.05
Pentachlorophenol		<0.10	mg/L	2	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		27.20	mg/L	2	80	34	20 - 67
Phenol-d5		17.25	mg/L	2	80	21	7 - 55
Nitrobenzene-d5		47.55	mg/L	2	80	59	33 - 116
2-Fluorobiphenyl		49.99	mg/L	2	80	62	47 - 107
2,4,6-Tribromophenol		51.62	mg/L	2	80	64	47 - 113
Terphenyl-d14		47.15	mg/L	2	80	58	47 - 124

Sample: 148725 - DAF

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC03510 Date Analyzed: 6/30/00
Analyst: JG Preparation Method: E 5030 Prep Batch: PB03028 Date Prepared: 6/30/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.05	mg/L	50	0.001
1,1-Dichloroethene		<0.05	mg/L	50	0.001
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.05	mg/L	50	0.001
1,2-Dichloroethane (EDC)		<0.05	mg/L	50	0.001
Benzene		<0.05	mg/L	50	0.001
Carbon Tetrachloride		<0.05	mg/L	50	0.001
Trichloroethene (TCE)		<0.05	mg/L	50	0.001
Tetrachloroethene (PCE)		<0.05	mg/L	50	0.001
Chlorobenzene		<0.05	mg/L	50	0.001
1,4-Dichlorobenzene		<0.05	mg/L	50	0.001

Report Date: July 11, 2000
N/A

Order Number: A00062406
DAF

Page Number: 3 of 11
Artesia, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.10	mg/L	1	50	100	80 - 120
Toluene-d8		53.73	mg/L	1	50	107	80 - 120
4-Bromofluorobenzene		43.90	mg/L	1	50	87	80 - 120

Quality Control Report Method Blank

Sample: Method Blank

QCBatch: QC03510

Param	Flag	Results	Units	Reporting Limit
Vinyl Chloride		<0.05	mg/L	0.001
1,1-Dichloroethene		<0.05	mg/L	0.001
Methyl ethyl ketone		<0.50	mg/L	0.01
Chloroform		<0.05	mg/L	0.001
1,2-Dichloroethane (EDC)		<0.05	mg/L	0.001
Benzene		<0.05	mg/L	0.001
Carbon Tetrachloride		<0.05	mg/L	0.001
Trichloroethene (TCE)		<0.05	mg/L	0.001
Tetrachloroethene (PCE)		<0.05	mg/L	0.001
Chlorobenzene		<0.05	mg/L	0.001
1,4-Dichlorobenzene		<0.05	mg/L	0.001

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Dibromofluoromethane		49.71	mg/L	50	99	80 - 120
Toluene-d8		53.43	mg/L	50	106	80 - 120
4-Bromofluorobenzene		44.03	mg/L	50	88	80 - 120

Sample: Method Blank

QCBatch: QC03639

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.05	mg/L	0.05
1,4-Dichlorobenzene		<0.05	mg/L	0.05
o-Cresol		<0.05	mg/L	0.05
m,p-Cresol		<0.05	mg/L	0.05
Hexachloroethane		<0.05	mg/L	0.05
Nitrobenzene		<0.05	mg/L	0.05
Hexachlorobutadiene		<0.05	mg/L	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	0.05
2,4-Dinitrotoluene		<0.05	mg/L	0.05
2,4-D		<0.05	mg/L	0.05
Hexachlorobenzene		<0.05	mg/L	0.05
2,4,5-TP		<0.05	mg/L	0.05
Pentachlorophenol		<0.05	mg/L	0.05

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		21.65	mg/L	80	27	20 - 67

Continued ...

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Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Phenol-d5		13.64	mg/L	80	17	7 - 55
Nitrobenzene-d5		42.53	mg/L	80	53	33 - 116
2-Fluorobiphenyl		45.32	mg/L	80	56	47 - 107
2,4,6-Tribromophenol		45.28	mg/L	80	56	47 - 113
Terphenyl-d14		50.75	mg/L	80	63	47 - 124

Quality Control Report Lab Control Spikes and Duplicate Spikes

Sample: LCS

QC Batch: QC03510

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		4.52	mg/L	1	5	<0.05	90		80 - 120	20
1,1-Dichloroethene		5.11	mg/L	1	5	<0.05	102		80 - 120	20
Methyl ethyl ketone		4.34	mg/L	1	5	<0.50	86		80 - 120	20
Chloroform		5.24	mg/L	1	5	<0.05	104		80 - 120	20
1,2-Dichloroethane (EDC)		5.17	mg/L	1	5	<0.05	103		80 - 120	20
Benzene		5.21	mg/L	1	5	<0.05	104		80 - 120	20
Carbon Tetrachloride		5.73	mg/L	1	5	<0.05	114		80 - 120	20
Trichloroethene (TCE)		5.08	mg/L	1	5	<0.05	101		80 - 120	20
Tetrachloroethene (PCE)		3.68	mg/L	1	5	<0.05	73		80 - 120	20
Chlorobenzene		5.15	mg/L	1	5	<0.05	103		80 - 120	20
1,4-Dichlorobenzene		5.13	mg/L	1	5	<0.05	102		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50.5	mg/L	1	50	101	80 - 120
Toluene-d8		51.43	mg/L	1	50	102	80 - 120
4-Bromofluorobenzene		46.35	mg/L	1	50	92	80 - 120

Sample: LCSD

QC Batch: QC03510

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		4.58	mg/L	1	5	<0.05	91	1.31	80 - 120	20
1,1-Dichloroethene		5.14	mg/L	1	5	<0.05	102	0.58	80 - 120	20
Methyl ethyl ketone		5.71	mg/L	1	5	<0.50	114	27.26	80 - 120	20
Chloroform		5.29	mg/L	1	5	<0.05	105	0.94	80 - 120	20
1,2-Dichloroethane (EDC)		5.30	mg/L	1	5	<0.05	106	2.48	80 - 120	20
Benzene		5.29	mg/L	1	5	<0.05	105	1.52	80 - 120	20
Carbon Tetrachloride		5.74	mg/L	1	5	<0.05	114	0.17	80 - 120	20
Trichloroethene (TCE)		5.11	mg/L	1	5	<0.05	102	0.58	80 - 120	20
Tetrachloroethene (PCE)		3.70	mg/L	1	5	<0.05	74	0.54	80 - 120	20
Chlorobenzene		5.24	mg/L	1	5	<0.05	104	1.73	80 - 120	20
1,4-Dichlorobenzene		5.03	mg/L	1	5	<0.05	100	1.96	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50.89	mg/L	1	50	101	80 - 120
Toluene-d8		51.22	mg/L	1	50	102	80 - 120

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Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
4-Bromofluorobenzene		45.82	mg/L	1	50	91	80 - 120

Sample: LCS

QC Batch: QC03639

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		28.43	mg/L	1	80	<0.05	35		0 - 92	20
1,4-Dichlorobenzene		35.78	mg/L	1	80	<0.05	44		39 - 87	20
o-Cresol		36.73	mg/L	1	80	<0.05	45		41 - 92	20
m,p-Cresol		67.07	mg/L	1	160	<0.05	41		7 - 127	20
Hexachloroethane		33.70	mg/L	1	80	<0.05	42		35 - 85	20
Nitrobenzene		48.52	mg/L	1	80	<0.05	60		43 - 108	20
Hexachlorobutadiene		37.66	mg/L	1	80	<0.05	47		38 - 89	20
2,4,6-Trichlorophenol		48.24	mg/L	1	80	<0.05	60		47 - 107	20
2,4,5-Trichlorophenol		47.27	mg/L	1	80	<0.05	59		49 - 105	20
2,4-Dinitrotoluene		51.13	mg/L	1	80	<0.05	63		49 - 105	20
2,4-D		60.15	mg/L	1	80	<0.05	75		0 - 127	20
Hexachlorobenzene		53.13	mg/L	1	80	<0.05	66		47 - 122	20
2,4,5-TP		56.95	mg/L	1	80	<0.05	71		0 - 130	20
Pentachlorophenol		41.61	mg/L	1	80	<0.05	52		33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		29.89	mg/L	1	80	37	20 - 67
Phenol-d5		19.61	mg/L	1	80	24	7 - 55
Nitrobenzene-d5		46.26	mg/L	1	80	57	33 - 116
2-Fluorobiphenyl		50.66	mg/L	1	80	63	47 - 107
2,4,6-Tribromophenol		48.80	mg/L	1	80	61	47 - 113
Terphenyl-d14		47.68	mg/L	1	80	59	47 - 124

Sample: LCSD

QC Batch: QC03639

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		29.02	mg/L	1	80	<0.05	36	2.05	0 - 92	20
1,4-Dichlorobenzene		35.98	mg/L	1	80	<0.05	44	0.55	39 - 87	20
o-Cresol		36.53	mg/L	1	80	<0.05	45	0.54	41 - 92	20
m,p-Cresol		63.76	mg/L	1	160	<0.05	39	5.06	7 - 127	20
Hexachloroethane		34.34	mg/L	1	80	<0.05	42	1.88	35 - 85	20
Nitrobenzene		49.25	mg/L	1	80	<0.05	61	1.49	43 - 108	20
Hexachlorobutadiene		40.18	mg/L	1	80	<0.05	50	6.47	38 - 89	20
2,4,6-Trichlorophenol		48.42	mg/L	1	80	<0.05	60	0.37	47 - 107	20
2,4,5-Trichlorophenol		48.66	mg/L	1	80	<0.05	60	2.89	49 - 105	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
2,4-Dinitrotoluene		45.01	mg/L	1	80	<0.05	56	12.73	49 - 105	20
2,4-D		53.78	mg/L	1	80	<0.05	67	11.18	0 - 127	20
Hexachlorobenzene		53.86	mg/L	1	80	<0.05	67	1.36	47 - 122	20
2,4,5-TP		57.01	mg/L	1	80	<0.05	71	0.10	0 - 130	20
Pentachlorophenol		38.17	mg/L	1	80	<0.05	47	8.62	33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		25.70	mg/L	1	80	32	20 - 67
Phenol-d5		17.07	mg/L	1	80	21	7 - 55
Nitrobenzene-d5		46.11	mg/L	1	80	57	33 - 116
2-Fluorobiphenyl		54.03	mg/L	1	80	67	47 - 107
2,4,6-Tribromophenol		43.96	mg/L	1	80	54	47 - 113
Terphenyl-d14		44.91	mg/L	1	80	56	47 - 124

Quality Control Report Matrix Spikes and Duplicate Spikes

Sample: MS

QC Batch: QC03510

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		4.63	mg/L	1	5	<0.05	92		80 - 120	20
1,1-Dichloroethene		5.18	mg/L	1	5	<0.05	103		80 - 120	20
Methyl ethyl ketone		4.30	mg/L	1	5	<0.50	86		80 - 120	20
Chloroform		5.50	mg/L	1	5	<0.05	110		80 - 120	20
1,2-Dichloroethane (EDC)		5.55	mg/L	1	5	<0.05	111		80 - 120	20
Benzene		5.46	mg/L	1	5	<0.05	109		80 - 120	20
Carbon Tetrachloride		5.76	mg/L	1	5	<0.05	115		80 - 120	20
Trichloroethene (TCE)		5.29	mg/L	1	5	<0.05	105		80 - 120	20
Tetrachloroethene (PCE)		3.76	mg/L	1	5	<0.05	75		80 - 120	20
Chlorobenzene		5.41	mg/L	1	5	<0.05	108		80 - 120	20
1,4-Dichlorobenzene		5.16	mg/L	1	5	<0.05	103		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50.76	mg/L	1	50	101	80 - 120
Toluene-d8		51.24	mg/L	1	50	102	80 - 120
4-Bromofluorobenzene		46.04	mg/L	1	50	92	80 - 120

Sample: MSD

QC Batch: QC03510

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		4.47	mg/L	1	5	<0.05	89	3.51	80 - 120	20
1,1-Dichloroethene		5.02	mg/L	1	5	<0.05	100	3.13	80 - 120	20
Methyl ethyl ketone		4.20	mg/L	1	5	<0.50	84	2.35	80 - 120	20
Chloroform		5.37	mg/L	1	5	<0.05	107	2.39	80 - 120	20
1,2-Dichloroethane (EDC)		5.44	mg/L	1	5	<0.05	108	2.00	80 - 120	20
Benzene		5.35	mg/L	1	5	<0.05	107	2.03	80 - 120	20
Carbon Tetrachloride		5.61	mg/L	1	5	<0.05	112	2.63	80 - 120	20
Trichloroethene (TCE)		5.10	mg/L	1	5	<0.05	102	3.65	80 - 120	20
Tetrachloroethene (PCE)		3.64	mg/L	1	5	<0.05	72	3.24	80 - 120	20
Chlorobenzene		5.29	mg/L	1	5	<0.05	105	2.24	80 - 120	20
1,4-Dichlorobenzene		5.12	mg/L	1	5	<0.05	102	0.77	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50.36	mg/L	1	50	100	80 - 120
Toluene-d8		51.19	mg/L	1	50	102	80 - 120

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Report Date: July 11, 2000
N/A

Order Number: A00062406
DAF

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Artesia, NM

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Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
4-Bromofluorobenzene		46.04	mg/L	1	50	92	80 - 120

Quality Control Report Continuing Calibration Verification Standards

Sample: CCV (1)

QC Batch: QC03510

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		mg/L	100	113	113	80 - 120	6/30/00
1,1-Dichloroethene		mg/L	100	103	103	80 - 120	6/30/00
Methyl ethyl ketone		mg/L	100	92	92	80 - 120	6/30/00
Chloroform		mg/L	100	104	104	80 - 120	6/30/00
1,2-Dichloroethane (EDC)		mg/L	100	104	104	80 - 120	6/30/00
Benzene		mg/L	100	103	103	80 - 120	6/30/00
Carbon Tetrachloride		mg/L	100	117	117	80 - 120	6/30/00
Trichloroethene (TCE)		mg/L	100	102	102	80 - 120	6/30/00
Tetrachloroethene (PCE)		mg/L	100	82	82	80 - 120	6/30/00
Chlorobenzene		mg/L	100	101	101	80 - 120	6/30/00
1,4-Dichlorobenzene		mg/L	100	101	101	80 - 120	6/30/00
Dibromofluoromethane		mg/L	50	50.81	101	80 - 120	6/30/00
Toluene-d8		mg/L	50	49.7	99	80 - 120	6/30/00
4-Bromofluorobenzene		mg/L	50	50.9	101	80 - 120	6/30/00

Sample: CCV (1)

QC Batch: QC03639

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Pyridine		mg/L	60	58.91	98	0 - 92	7/7/00
1,4-Dichlorobenzene		mg/L	60	58.45	97	39 - 87	7/7/00
o-Cresol		mg/L	60	54.47	90	41 - 92	7/7/00
m,p-Cresol		mg/L	60	53.67	89	7 - 127	7/7/00
Hexachloroethane		mg/L	60	57.19	95	35 - 85	7/7/00
Nitrobenzene		mg/L	60	63.25	105	43 - 108	7/7/00
Hexachlorobutadiene		mg/L	60	60.45	100	38 - 89	7/7/00
2,4,6-Trichlorophenol		mg/L	60	59.60	99	47 - 107	7/7/00
2,4,5-Trichlorophenol		mg/L	60	57.65	96	49 - 105	7/7/00
2,4-Dinitrotoluene		mg/L	60	61.39	102	49 - 105	7/7/00
2,4-D		mg/L	60	59.09	98	0 - 127	7/7/00
Hexachlorobenzene		mg/L	60	57.48	95	47 - 122	7/7/00
2,4,5-TP		mg/L	60	51.83	86	0 - 130	7/7/00
Pentachlorophenol		mg/L	60	59.73	99	33 - 99	7/7/00
2-Fluorophenol		mg/L	60	58.05	96	20 - 67	7/7/00
Phenol-d5		mg/L	60	56.75	94	7 - 55	7/7/00
Nitrobenzene-d5		mg/L	60	58.31	97	33 - 116	7/7/00
2-Fluorobiphenyl		mg/L	60	58.34	97	47 - 107	7/7/00
2,4,6-Tribromophenol		mg/L	60	56.05	93	47 - 113	7/7/00
Terphenyl-d14		mg/L	60	51.73	86	47 - 124	7/7/00

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

A00062406

ANALYSIS REQUEST
(Circle or Specify Method No.)

MATRIX	PRESERVATIVE	SAMPLING METHOD
Drum	112000	

LAB USE ONLY

Intact Y / N
 Headspace Y / N
 Temp 26 °
 Log-in Review MS

Carrier # FedEx 290 1876 363

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
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ANALYTICAL RESULTS FOR
NAVAJO REFINING
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

April 24, 2000
Receiving Date: 04/13/2000
Sample Type: Sludge
Project No: NA
Project Location: NA

Extraction Date: 04/17/2000
Analysis Date: 04/18/2000
Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T144451 DAF	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	116	2	93	116
1,1-Dichloroethene	0.70	0.05	ND	120	2	127	120
Methyl Ethyl Ketone	200.0	0.5	ND	108	20	92	108
Chloroform	6.00	0.05	ND	104	1	116	104
1,2-Dichloroethane	0.50	0.05	ND	107	1	116	107
Benzene	0.50	0.05	ND	105	3	108	105
Carbon Tetrachloride	0.50	0.05	ND	105	2	115	105
Trichloroethene	0.50	0.05	ND	112	2	111	112
Tetrachloroethene	0.70	0.05	ND	115	2	108	115
Chlorobenzene	100.00	0.05	ND	103	2	106	103
1,4-Dichlorobenzene	7.50	0.05	ND	99	0	104	99

SURROGATES	% Recovery
Dibromofluoromethane	103
Toluene-d8	100
4-Bromofluorobenzene	95

ND = Not Detected

METHODS: EPA SW 846-1311, 8260B.
CHEMIST: JG



Director, Dr. Blair Leftwich

4-24-00

DATE

Analytical Results Report

Sample Number: 144450
Description: Sewer Inserts

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
o-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
m,p-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Hexachloroethane	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Nitrobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4-D	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,5-TP	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Pentachlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Surrogate (mg/Kg)									
Param	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	RDL
2-Fluorophenol	31.65	1	80	40	20 - 67	BP	PB01859	QC02226	
Phenol-d5	28.67	1	80	36	7 - 55	BP	PB01859	QC02226	
Nitrobenzene-d5	47.27	1	80	59	33 - 116	BP	PB01859	QC02226	
2-Fluorobiphenyl	48.84	1	80	61	47 - 107	BP	PB01859	QC02226	
2,4,6-Tribromophenol	45.99	1	80	57	47 - 113	BP	PB01859	QC02226	
Terphenyl-d14	40.12	1	80	50	47 - 124	BP	PB01859	QC02226	

Sample Number: 144451
Description: DAF

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
o-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
m,p-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Hexachloroethane	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Nitrobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4-D	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,5-TP	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Pentachlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25

TRACE ANALYSIS, INC.

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 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888-588-3443 915-585-3443 FAX 915-585-4944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING
 Attention: Bryan Madrid
 501 E. Main
 Artesia, NM 88210

Sampling Date: 04/12/2000
 Sample Condition: Intact & Cool
 Sample Received by: VH
 Project Name: NA

April 24, 2000
 Receiving Date: 04/13/2000
 Sample Type: Sludge
 Project No: NA
 Project Location: NA

TCLP METALS (mg/L)

TA#	Field Code	Ag	As	Ba	Cd	Cr	Pb	Se	Hg
EPA LIMIT =									
T144450	Sewer Inserts	5.0	5.0	100.0	1.0	5.0	5.0	1.0	0.20
T144451	DAF	<0.05	0.30	0.23	<0.02	<0.05	<0.10	<0.10	<0.010
ICV		<0.05	0.15	0.05	<0.02	<0.05	<0.10	<0.10	<0.010
CCV		0.200	1.00	1.03	1.02	1.02	1.01	0.97	0.00540
		0.198	0.98	1.00	0.98	1.00	0.99	0.96	0.00538
Reporting Limit									
		0.05	0.10	0.10	0.02	0.05	0.10	0.10	0.010
RPD		1	2	1	1	1	1	1	0
% Extraction Accuracy		75	100	98	98	99	94	91	109
% Instrument Accuracy		99	98	100	98	100	99	96	108
EXTRACTION DATE		04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/17/2000
ANALYSIS DATE		04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/19/2000

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: JM
 METHODS: EPA SW 846-1311, 6010B, 7470A.
 TCLP METALS SPIKE: 10 mg/L As, Se, Cd, Cr, Pb, Ba; 4 mg/L Ag; 0.050 mg/L Hg.
 TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.005 mg/L Hg.

4-28-00
 Date

[Signature]
 Director Dr. Blair LaFramboise

TRACE ANALYSIS, INC.

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April 26, 2000

Receiving Date: 04/13/2000

Sample Type: Sludge

Project No: NA

Project Location: NA

Prep Date: 04/26/2000

Analysis Date: 04/26/2000

Sampling Date: 04/12/2000

Sample Condition: Intact & Cool

Sample Received by: VH

Project Name: NA

ANALYTICAL RESULTS FOR

NAVAJO REFINING

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

TA #	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T144450	Sewer Inserts	Non-Reactive	125	15	Non-corrosive	6.66	Nonignitable
T144451	DAF	Non-Reactive	30	5	Non-corrosive	7.51	Nonignitable
QC	Quality control	---	---	---	---	7.0	---

RPD	0	0	0	0	0	0	0
% Extraction Accuracy	---	---	---	---	---	---	---
% Instrument Accuracy	---	---	---	---	---	100	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

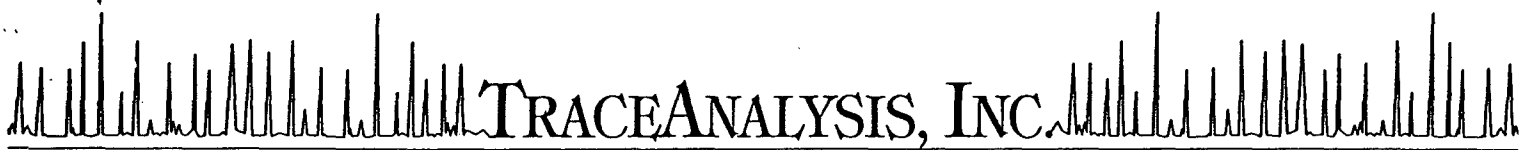
CHEMIST: JM



Director Dr. Blair Leffwich

4-26-00

DATE



TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Bryan Madrid
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: 4/24/00

Project Number: N/A
Project Name: N/A
Project Location: N/A

Order ID Number: A00041309

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
144450	Sewer Inserts	Sludge	4/12/00	13:30	4/13/00
144451	DAF	Sludge	4/12/00	14:00	4/13/00
144452	Contam Soil	Soil	4/12/00	14:15	4/13/00

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 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Quality Control Report

Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
1,4-Dichlorobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
o-Cresol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
m,p-Cresol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachloroethane (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Nitrobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachlorobutadiene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,6-Trichlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,5-Trichlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4-Dinitrotoluene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4-D (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachlorobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,5-TP (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Pentachlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Surrogate		Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)		23.60	80	30	20 - 67	QC02226
Phenol-d5 (mg/Kg)		20.79	80	26	7 - 55	QC02226
Nitrobenzene-d5 (mg/Kg)		50.77	80	63	33 - 116	QC02226
2-Fluorobiphenyl (mg/Kg)		54.33	80	68	47 - 107	QC02226
2,4,6-Tribromophenol (mg/Kg)		43.24	80	54	47 - 113	QC02226
Terphenyl-d14 (mg/Kg)		49.06	80	61	47 - 124	QC02226
Pyridine (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
1,4-Dichlorobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
o-Cresol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
m,p-Cresol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachloroethane (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Nitrobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachlorobutadiene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,6-Trichlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,5-Trichlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4-Dinitrotoluene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4-D (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachlorobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,5-TP (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Pentachlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Surrogate		Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)		23.60	80	30	20 - 67	QC02227
Phenol-d5 (mg/Kg)		20.79	80	26	7 - 55	QC02227
Nitrobenzene-d5 (mg/Kg)		50.77	80	63	33 - 116	QC02227
2-Fluorobiphenyl (mg/Kg)		54.33	80	68	47 - 107	QC02227
2,4,6-Tribromophenol (mg/Kg)		43.24	80	54	47 - 113	QC02227
Terphenyl-d14 (mg/Kg)		49.06	80	61	47 - 124	QC02227

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 Pyridine (mg/L)	<0.05	1	80	29.04	36		0 - 92	-	QC02226
LCS 1,4-Dichlorobenzene (mg/L)	<0.05	1	80	48.29	60		39 - 87	-	QC02226
LCS o-Cresol (mg/L)	<0.05	1	80	40.22	50		41 - 92	-	QC02226
LCS m,p-Cresol (mg/L)	<0.05	1	160	73.40	46		7 - 127	-	QC02226
LCS Hexachloroethane (mg/L)	<0.05	1	80	46.23	58		35 - 85	-	QC02226
LCS Nitrobenzene (mg/L)	<0.05	1	80	55.05	69		43 - 108	-	QC02226
LCS Hexachlorobutadiene (mg/L)	<0.05	1	80	48.49	61		38 - 89	-	QC02226
LCS 2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.07	66		47 - 107	-	QC02226
LCS 2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	52.86	66		49 - 105	-	QC02226
LCS 2,4-Dinitrotoluene (mg/L)	<0.05	1	80	50.97	64		49 - 105	-	QC02226
LCS 2,4-D (mg/L)	<0.05	1	80	63.15	79		0 - 127	-	QC02226
LCS Hexachlorobenzene (mg/L)	<0.05	1	80	61.83	77		47 - 122	-	QC02226
LCS 2,4,5-TP (mg/L)	<0.05	1	80	69.47	87		0 - 130	-	QC02226
LCS Pentachlorophenol (mg/L)	<0.05	1	80	44.58	56		33 - 99	-	QC02226
Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	22.96	29		20 - 67		QC02226
LCS	Phenol-d5 (mg/Kg)	1	80	16.56	21		7 - 55		QC02226
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	50.96	64		33 - 116		QC02226
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	55.06	69		47 - 107		QC02226
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	45.24	57		47 - 113		QC02226
LCS	Terphenyl-d14 (mg/Kg)	1	80	48.53	61		47 - 124		QC02226
LCSD	Pyridine (mg/L)	1	80	27.07	34	7	-	0 - 20	QC02226
LCSD	1,4-Dichlorobenzene (mg/L)	1	80	46.09	58	5	-	0 - 20	QC02226
LCSD	o-Cresol (mg/L)	1	80	41.88	52	4	-	0 - 20	QC02226
LCSD	m,p-Cresol (mg/L)	1	160	76.89	48	5	-	0 - 20	QC02226
LCSD	Hexachloroethane (mg/L)	1	80	43.60	55	6	-	0 - 20	QC02226
LCSD	Nitrobenzene (mg/L)	1	80	52.96	66	4	-	0 - 20	QC02226
LCSD	Hexachlorobutadiene (mg/L)	1	80	45.56	57	6	-	0 - 20	QC02226
LCSD	2,4,6-Trichlorophenol (mg/L)	1	80	53.60	67	1	-	0 - 20	QC02226
LCSD	2,4,5-Trichlorophenol (mg/L)	1	80	53.99	67	2	-	0 - 20	QC02226
LCSD	2,4-Dinitrotoluene (mg/L)	1	80	52.02	65	2	-	0 - 20	QC02226
LCSD	2,4-D (mg/L)	1	80	66.18	83	5	-	0 - 20	QC02226
LCSD	Hexachlorobenzene (mg/L)	1	80	63.17	79	2	-	0 - 20	QC02226
LCSD	2,4,5-TP (mg/L)	1	80	75.17	94	8	-	0 - 20	QC02226
LCSD	Pentachlorophenol (mg/L)	1	80	46.98	59	5	-	0 - 20	QC02226

N/A

N/A

N/A

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	23.12	29	20 - 67	QC02226
LCSD	Phenol-d5 (mg/Kg)	1	80	17.75	22	7 - 55	QC02226
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	50.52	63	33 - 116	QC02226
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	53.42	67	47 - 107	QC02226
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	45.30	57	47 - 113	QC02226
LCSD	Terphenyl-d14 (mg/Kg)	1	80	50.24	63	47 - 124	QC02226

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS Pyridine (mg/L)	<0.05	1	80	29.04	36		0 - 92	-	QC02227
LCS 1,4-Dichlorobenzene (mg/L)	<0.05	1	80	48.29	60		39 - 87	-	QC02227
LCS o-Cresol (mg/L)	<0.05	1	80	40.22	50		41 - 92	-	QC02227
LCS m,p-Cresol (mg/L)	<0.05	1	160	73.40	46		7 - 127	-	QC02227
LCS Hexachloroethane (mg/L)	<0.05	1	80	46.23	58		35 - 85	-	QC02227
LCS Nitrobenzene (mg/L)	<0.05	1	80	55.05	69		43 - 108	-	QC02227
LCS Hexachlorobutadiene (mg/L)	<0.05	1	80	48.49	61		38 - 89	-	QC02227
LCS 2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.07	66		47 - 107	-	QC02227
LCS 2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	52.86	66		49 - 105	-	QC02227
LCS 2,4-Dinitrotoluene (mg/L)	<0.05	1	80	50.97	64		49 - 105	-	QC02227
LCS 2,4-D (mg/L)	<0.05	1	80	63.15	79		0 - 127	-	QC02227
LCS Hexachlorobenzene (mg/L)	<0.05	1	80	61.83	77		47 - 122	-	QC02227
LCS 2,4,5-TP (mg/L)	<0.05	1	80	69.47	87		0 - 130	-	QC02227
LCS Pentachlorophenol (mg/L)	<0.05	1	80	44.58	56		33 - 99	-	QC02227
Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	22.96	29		20 - 67		QC02227
LCS	Phenol-d5 (mg/Kg)	1	80	16.56	21		7 - 55		QC02227
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	50.96	64		33 - 116		QC02227
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	55.06	69		47 - 107		QC02227
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	45.24	57		47 - 113		QC02227
LCS	Terphenyl-d14 (mg/Kg)	1	80	48.53	61		47 - 124		QC02227
LCSD Pyridine (mg/L)	<0.05	1	80	27.07	34	7	-	0 - 20	QC02227
LCSD 1,4-Dichlorobenzene (mg/L)	<0.05	1	80	46.09	58	5	-	0 - 20	QC02227
LCSD o-Cresol (mg/L)	<0.05	1	80	41.88	52	4	-	0 - 20	QC02227
LCSD m,p-Cresol (mg/L)	<0.05	1	160	76.89	48	5	-	0 - 20	QC02227
LCSD Hexachloroethane (mg/L)	<0.05	1	80	43.60	55	6	-	0 - 20	QC02227
LCSD Nitrobenzene (mg/L)	<0.05	1	80	52.96	66	4	-	0 - 20	QC02227
LCSD Hexachlorobutadiene (mg/L)	<0.05	1	80	45.56	57	6	-	0 - 20	QC02227
LCSD 2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.60	67	1	-	0 - 20	QC02227
LCSD 2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	53.99	67	2	-	0 - 20	QC02227
LCSD 2,4-Dinitrotoluene (mg/L)	<0.05	1	80	52.02	65	2	-	0 - 20	QC02227
LCSD 2,4-D (mg/L)	<0.05	1	80	66.18	83	5	-	0 - 20	QC02227
LCSD Hexachlorobenzene (mg/L)	<0.05	1	80	63.17	79	2	-	0 - 20	QC02227
LCSD 2,4,5-TP (mg/L)	<0.05	1	80	75.17	94	8	-	0 - 20	QC02227
LCSD Pentachlorophenol (mg/L)	<0.05	1	80	46.98	59	5	-	0 - 20	QC02227

Report Date: 4/24/00

Order ID Number: A00041309

Page Number: 7 of 9

N/A

N/A

N/A

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	23.12	29	20 - 67	QC02227
LCSD	Phenol-d5 (mg/Kg)	1	80	17.75	22	7 - 55	QC02227
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	50.52	63	33 - 116	QC02227
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	53.42	67	47 - 107	QC02227
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	45.30	57	47 - 113	QC02227
LCSD	Terphenyl-d14 (mg/Kg)	1	80	50.24	63	47 - 124	QC02227

Quality Control Report

Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Pyridine (mg/L)		60	56.79	95	0 - 92	4/20/00	QC02226
CCV 1	1,4-Dichlorobenzene (mg/L)		60	60.25	100	39 - 87	4/20/00	QC02226
CCV 1	o-Cresol (mg/L)		60	58.34	97	41 - 92	4/20/00	QC02226
CCV 1	m,p-Cresol (mg/L)		60	58.05	97	7 - 127	4/20/00	QC02226
CCV 1	Hexachloroethane (mg/L)		60	60.04	100	35 - 85	4/20/00	QC02226
CCV 1	Nitrobenzene (mg/L)		60	57.30	96	43 - 108	4/20/00	QC02226
CCV 1	Hexachlorobutadiene (mg/L)		60	59.55	99	38 - 89	4/20/00	QC02226
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.69	99	47 - 107	4/20/00	QC02226
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	59.83	100	49 - 105	4/20/00	QC02226
CCV 1	2,4-Dinitrotoluene (mg/L)		60	57.62	96	49 - 105	4/20/00	QC02226
CCV 1	2,4-D (mg/L)		60	54.35	91	0 - 127	4/20/00	QC02226
CCV 1	Hexachlorobenzene (mg/L)		60	55.73	93	47 - 122	4/20/00	QC02226
CCV 1	2,4,5-TP (mg/L)		60	50.48	84	0 - 130	4/20/00	QC02226
CCV 1	Pentachlorophenol (mg/L)		60	60.05	100	33 - 99	4/20/00	QC02226
CCV 1	2-Fluorophenol (mg/L)		60	54.95	92	20 - 67	4/20/00	QC02226
CCV 1	Phenol-d5 (mg/L)		60	54.65	91	7 - 55	4/20/00	QC02226
CCV 1	Nitrobenzene-d5 (mg/L)		60	55.70	93	33 - 116	4/20/00	QC02226
CCV 1	2-Fluorobiphenyl (mg/L)		60	60.50	101	47 - 107	4/20/00	QC02226
CCV 1	2,4,6-Tribromophenol (mg/L)		60	56.17	94	47 - 113	4/20/00	QC02226
CCV 1	Terphenyl-d14 (mg/L)		60	56.75	95	47 - 124	4/20/00	QC02226

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Pyridine (mg/L)		60	56.79	95	0 - 92	4/20/00	QC02227
CCV 1	1,4-Dichlorobenzene (mg/L)		60	60.25	100	39 - 87	4/20/00	QC02227
CCV 1	o-Cresol (mg/L)		60	58.34	97	41 - 92	4/20/00	QC02227
CCV 1	m,p-Cresol (mg/L)		60	58.05	97	7 - 127	4/20/00	QC02227
CCV 1	Hexachloroethane (mg/L)		60	60.04	100	35 - 85	4/20/00	QC02227
CCV 1	Nitrobenzene (mg/L)		60	57.30	96	43 - 108	4/20/00	QC02227
CCV 1	Hexachlorobutadiene (mg/L)		60	59.55	99	38 - 89	4/20/00	QC02227
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.69	99	47 - 107	4/20/00	QC02227
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	59.83	100	49 - 105	4/20/00	QC02227
CCV 1	2,4-Dinitrotoluene (mg/L)		60	57.62	96	49 - 105	4/20/00	QC02227
CCV 1	2,4-D (mg/L)		60	54.35	91	0 - 127	4/20/00	QC02227
CCV 1	Hexachlorobenzene (mg/L)		60	55.73	93	47 - 122	4/20/00	QC02227
CCV 1	2,4,5-TP (mg/L)		60	50.48	84	0 - 130	4/20/00	QC02227
CCV 1	Pentachlorophenol (mg/L)		60	60.05	100	33 - 99	4/20/00	QC02227
CCV 1	2-Fluorophenol (mg/L)		60	54.95	92	20 - 67	4/20/00	QC02227
CCV 1	Phenol-d5 (mg/L)		60	54.65	91	7 - 55	4/20/00	QC02227
CCV 1	Nitrobenzene-d5 (mg/L)		60	55.70	93	33 - 116	4/20/00	QC02227

Report Date: 4/24/00
N/A

Order ID Number: A00041309
N/A

Page Number: 9 of 9
N/A

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	2-Fluorobiphenyl (mg/L)		60	60.50	101	47 - 107	4/20/00	QC02227
CCV 1	2,4,6-Tribromophenol (mg/L)		60	56.17	94	47 - 113	4/20/00	QC02227
CCV 1	Terphenyl-d14 (mg/L)		60	56.75	95	47 - 124	4/20/00	QC02227

1

Jones, Brad A., EMNRD

From: Price, Wayne, EMNRD
Sent: Friday, February 08, 2008 2:54 PM
To: Moore, Darrell; Jim Wilson
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: RE: Possible improper waste disposal

Thank you Darrell.

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Friday, February 08, 2008 2:29 PM
To: Price, Wayne, EMNRD; Jim Wilson
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: RE: Possible improper waste disposal

Wayne,

Navajo stopped the shipment of Dissolved Air Flotation (DAF) to Artesia Aeration as soon as you called me Wednesday. It is my understanding after discussions with Jim Wilson at Artesia Aeration that the material has been isolated and we will send trucks to the landfarm to pick it up and dispose of it at Controlled Recovery, Inc. We will complete that next week.

Attached to this email are the following:

- 1) Paperwork, non-hazardous waste manifests, and sample analysis that we sent to Artesia Aeration to get this material approved. We were given a verbal approval from Artesia Aeration to send the waste.
- 2) Approved C-138 from Controlled Recovery, Inc. dated August 20, 2007 to dispose of DAF.

As I mentioned on the phone, we have only sent this waste to Artesia Aeration since January 14, 2008 a total of 8 loads to our knowledge. The reason I say that is that our secretary is out recovering from surgery and we searched the files and found 8 manifests. I don't believe there are any more. If we find any new manifests we will forward those to you.

If there are any further questions concerning this matter, please don't hesitate to call me at 575-746-5281.

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Wednesday, February 06, 2008 11:36 AM
To: Jim Wilson; Moore, Darrell
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: Possible improper waste disposal

Dear Mr. Wilson:

It has come to OCD's attention that possible RCRA listed DAF (dissolved air floatation waste normally know as K-048) waste

2/11/2008

generated at the Navajo Artesia Refinery has been disposed of at the Artesia Aeration land farm OCD permit # NM1-30. Please be aware your permit or the regulations do not allow such waste to be disposed of at your facility. You are hereby ordered to stop receiving such waste and perform the following actions:

1. Provide all paperwork, manifest, sample analysis concerning the waste in question to Mr. Brad Jones who will be on site tomorrow morning.
2. Also make arrangements so Mr. Jones may inspect all records during his inspection.
3. Isolate the waste in question until a final determination has been made by this agency for proper disposal.

Dear Mr. Moore:

Pursuant to our telephone conversation this morning you are hereby directed to stop disposing of the DAF waste generated at the Navajo Artesia Refinery at the Artesia Aeration landfarm OCD permit #NM1-30. You indicated this material is predominately dirt, scale, rust and is virtually oil free after it has gone thru the treatment process. You also indicated it is has been deemed non-hazardous. Please note landfarms are for remediating soils that have been contaminated with oilfield hydrocarbons. Since you indicated this material has already gone thru treatment it cannot be disposed of in the landfarm but must go to an OCD permitted landfill or another approved facility. You are hereby ordered to stop sending such waste to Artesia Aeration and perform the following actions today:

1. Provide a copy to this office of all of the paperwork, manifests, sample analysis, waste determinations concerning the waste in question.
2. Provide a copy or point out in your current discharge plan where this waste is approved to be disposed of.
3. Provide this agency a plan for approval to pick-up and properly dispose of the waste in question.

Wayne Price-Environmental Bureau Chief
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3490
Fax: 505-476-3462

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This inbound email has been scanned by the MessageLabs Email Security System.

2/11/2008

Jones, Brad A., EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Friday, February 08, 2008 2:29 PM
To: Price, Wayne, EMNRD; Jim Wilson
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: RE: Possible improper waste disposal
Attachments: DAF Application Profile.pdf; DAF Disposal Final.pdf; 2 DAF Disposal Final.pdf

Wayne,

Navajo stopped the shipment of Dissolved Air Flotation (DAF) to Artesia Aeration as soon as you called me Wednesday. It is my understanding after discussions with Jim Wilson at Artesia Aeration that the material has been isolated and we will send trucks to the landfarm to pick it up and dispose of it at Controlled Recovery, Inc. We will complete that next week.

Attached to this email are the following:

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Sent: Wednesday, February 06, 2008 11:36 AM
To: Jim Wilson; Moore, Darrell
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: Possible improper waste disposal

Dear Mr. Wilson:

It has come to OCD's attention that possible RCRA listed DAF (dissolved air floatation waste normally know as K-048) waste generated at the Navajo Artesia Refinery has been disposed of at the Artesia Aeration land farm OCD permit # NM1-30. Please be aware your permit or the regulations do not allow such waste to be disposed of at your facility. You are hereby ordered to stop receiving such waste and perform the following actions:

1. Provide all paperwork, manifest, sample analysis concerning the waste in question to Mr. Brad Jones who will be on site tomorrow morning.
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2/11/2008

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2. Provide a copy or point out in your current discharge plan where this waste is approved to be disposed of.
3. Provide this agency a plan for approval to pick-up and properly dispose of the waste in question.

Wayne Price-Environmental Bureau Chief
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3490
Fax: 505-476-3462

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2/11/2008

District I
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
District IV
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

Form C-138
Revised March 12, 2007

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
NAVAJO REFINERY

2. Originating Site:
ARTESIA FACILITY

3. Location of Material (Street Address, City, State or ULSTR):
501 E. MAIN, ARTESIA NM 88211

4. Source and Description of Waste: 08-20-07 (RENEWAL OF PREVIOUS C-138 07-25-06B)
DISSOLVED AIR FLOATATION (DAF) FLOAT.
ENCLOSED PREVIOUS C-138, NON-EXEMPT WASTE CERTIFICATE, ANALYTICAL, CHAIN OF CUSTODY AND
LETTER STATING PROCESS HAS NOT CHANGED.

Estimated Volume 60 yd³ / weekly yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, DARRELL MOORE, representative or authorized agent for NAVAJO REFINERY do hereby
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-
exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load

XX RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by
characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261,
subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check
the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for _____ do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples
have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
19.15.36 NMAC.

5. Transporter: S BROTHERS

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: CONTROLLED RECOVERY, INC. R-9166

Address of Facility: P.O. BOX 388, HOBBS, NM 88241

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☒ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: John O. Barnidge

TITLE: REP. CEO + PRES DATE: 08-20-07

SIGNATURE: JOHN O. BARNIDGE
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-393-1079



REFINING COMPANY, L.P.

FAX

(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 746-3311

FAX

(505) 746-5419 ACCOUNTING
(505) 746-5451 EXEC/MKTG
(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

August 30, 2007

Mr. Jim Wilson
Artesia Aeration, Inc

RE: Approval of DAF for Disposal at Artesia Aeration

Dear Jim,

Navajo recently sent you a TCLP analysis of our DAF waste stream. Also included in that analysis were readings for chlorides and paint filter. Based on the analysis from this grab sample, I certify by my signature below that this waste stream is non-hazardous and can be landfarmed under the limits set by the New Mexico Oil Conservation Division in NMAC 19.15.36.15.

Sincerely,
NAVAJO REFINING COMPANY

Darrell Moore
Environmental Manager for Water and Waste

An Independent Refinery Serving . . .
NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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District III
1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ If Verbal Approval Received: Yes ☐ No ☐	4. Generator <u>Navajo Refining Co.</u>
2. Management Facility Destination <u>Artesia Aeration</u>	5. Originating Site <u>Artesia NM</u>
3. Address of Facility Operator	6. Transporter <u>S Brothers</u>
7. Location of Material (Street Address or ULSTR) <u>501 E Main Artesia</u>	8. State <u>NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL: Dissolved Air Float from petroleum refining.

Estimated Volume 80 cy/week Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE _____ TITLE: _____ DATE: _____
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

E-MAIL ADDRESS _____

APPROVED BY: _____	TITLE: _____	DATE: _____
APPROVED BY: _____	TITLE: _____	DATE: _____

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMCA0015617	Manifest Doc. No.	2. Page 1 of 1			
3. Generator's Name and Mailing Address P.O. Box 159 Artesia, NM 88211-0159			NE 8723				
4. Generator's Phone (575) 748-3317							
5. Transporter 1 Company Name E Brothers		6. US EPA ID Number		A. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone			
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number		C. Facility's Phone			
11. Waste Shipping Name and Description			12. Containers		13. Total Quantity		
			No.	Type	14. Unit Wt/Vol		
			a. DAP			10 yds	
			b.				
			c.				
d.							
Additional Descriptions for Materials listed Above			E. Handling Codes For Wastes Listed Above				
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Printed/Typed Name Dorrie Hernandez			Signature <i>Dorrie Hernandez</i>		Month Day Year 11 10 11		
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name			Signature		Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name			Signature		Month Day Year		
19. Discrepancy Indication Space							
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.							
Printed/Typed Name			Signature		Month Day Year		

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of		
3. Generator's Name and Mailing Address				NO 8757		
4. Generator's Phone () <i>None</i>						
5. Transporter 1 Company Name <i>S. Brothers</i>		6. US EPA ID Number	A. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone			
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number	C. Facility's Phone			
11. Waste Shipping Name and Description			12. Containers		13. Total Quantity	
			No.	Type		
			a.			
			b.			
			c.			
d.						
Additional Descriptions for Materials listed Above			E. Handling Codes For Wastes Listed Above			
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name			Signature		Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name <i>Chris Murray</i>			Signature <i>[Signature]</i>		Month Day Year <i>01/19/03</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MD0000010017	Manifest Doc. No.	2. Page 1 of 1
3. Generator's Name and Mailing Address Navajo Refining Co. LLC PO Box 159 Artesia, NM 80211-0159			NO 8713	
4. Generator's Phone (575) 746-3311				
5. Transporter 1 Company Name S Brothers	6. US EPA ID Number	A. Transporter's Phone		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM	10. US EPA ID Number	C. Facility's Phone		
11. Waste Shipping Name and Description a. contaminated soil DAE b. c. d.		12. Containers		13. Total Quantity
		No.	Type	Unit Wt/Vol
				10 yds
D. Additional Descriptions for Materials listed Above		E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information <i>[Handwritten Signature]</i>				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name WILLIE HERNANDEZ		Signature <i>[Signature]</i>		Month Day Year 1 28 15
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name DAVID M D HUBBY		Signature <i>[Signature]</i>		Month Day Year 1 28 15
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year . . .
19. Discrepancy Indication Space				
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year . . .

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0046910017		Manifest Doc. No.		2. Page 1 of 1			
3. Generator's Name and Mailing Address Navajo Refining Co., LLC PO Box 159 Artesia, NM 88211-0159						M2 8711			
4. Generator's Phone (575) 748-3311									
5. Transporter 1 Company Name S Brothers			6. US EPA ID Number		A. Transporter's Phone				
7. Transporter 2 Company Name			8. US EPA ID Number		B. Transporter's Phone				
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM			10. US EPA ID Number		C. Facility's Phone				
11. Waste Shipping Name and Description						12. Containers		13. Total Quantity	14. Unit Wt/Vol
						No.	Type		
a. <i>SPILL</i>								10 yds	
b. <i>SPILL</i>									
c.									
d.									
D. Additional Descriptions for Materials listed Above						E. Handling Codes For Wastes Listed Above			
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.									
Printed/Typed Name <i>SA...</i>					Signature <i>...</i>		Month Day Year 1 25 01		
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name <i>...</i>					Signature <i>...</i>		Month Day Year 1 25 01		
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature		Month Day Year		
19. Discrepancy Indication Space									
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.									
Printed/Typed Name					Signature		Month Day Year		

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM00000010017	Manifest Doc. No.	2. Page 1 of 1	
3. Generator's Name and Mailing Address PO Box 159 Artesia, NM 88411-0159			NE 8780		
4. Generator's Phone (505) 748-3111					
5. Transporter 1 Company Name D Brothers	6. US EPA ID Number	A. Transporter's Phone			
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone			
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM	10. US EPA ID Number	C. Facility's Phone			
11. Waste Shipping Name and Description		12. Containers		13. Total Quantity	
		No.	Type	14. Unit Wt/Vol	
		a. 248		10 yds	
		b.			
		c.			
d.					
D. Additional Descriptions for Materials listed Above			E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name Carmie Hernandez		Signature <i>Carmie Hernandez</i>		Month Day Year 6 6 13	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year 6 6 13	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year . . .	
19. Discrepancy Indication Space					
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year . . .	

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NE0048912817	Manifest Doc. No.	2. Page 1 of 3	
3. Generator's Name and Mailing Address Navajo Marketing Co. LLC PO Box 159 Artesia, NM 88211-0159			NE 8778		
4. Generator's Phone (505) 741-2311					
5. Transporter 1 Company Name S Brothers		6. US EPA ID Number		A. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone	
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number		C. Facility's Phone	
11. Waste Shipping Name and Description				12. Containers	
				No.	Type
a. PAF					13. Total Quantity 10 yds
b.					
c.					
d.					
D. Additional Descriptions for Materials listed Above				E. Handling Codes For Wastes Listed Above	
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name Carrie Hernandez		Signature <i>Carrie Hernandez</i>		Month Day Year 12 9 18	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 12 9 18	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year	

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MD042919617	Manifest Doc. No.	2. Page 1 of 1
3. Generator's Name and Mailing Address Savage Refining Co. LLC PO Box 159 Artesia, NM 88211-0159			NO 8779	
4. Generator's Phone (505) 748-3311			A. Transporter's Phone	
5. Transporter 1 Company Name B Brothers	6. US EPA ID Number		B. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number		C. Facility's Phone	
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM				
11. Waste Shipping Name and Description			12. Containers No. Type	13. Total Quantity
a. DAF				10 yds
b. CELL 4				
c.				
d.				
D. Additional Descriptions for Materials listed Above			E. Handling Codes For Wastes Listed Above	
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Carrie Hernandez		Signature <i>Carrie Hernandez</i>		Month Day Year 12 9 12
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name <i>DAF MALJAMAR</i>		Signature <i>DAF MALJAMAR</i>		Month Day Year 12 9 12
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year

GENERATOR

TRANSPORTER

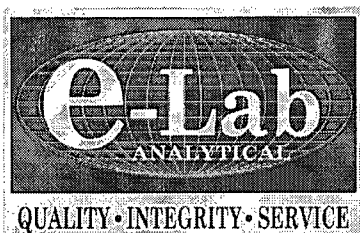
FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM00068910617	Manifest Doc. No.	2. Page 1 of 1
GENERATOR	3. Generator's Name and Mailing Address ARTEZIA AERATION, L.L.C. PO Box 159 Artesia, NM 86211-0159			N2 8777
	4. Generator's Phone (575) 748-3311			
	5. Transporter 1 Company Name E Brothers	6. US EPA ID Number		A. Transporter's Phone
	7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
	9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number	C. Facility's Phone
	11. Waste Shipping Name and Description		12. Containers No. Type	13. Total Quantity
	a. DAFF			10 yds
	b.			
	c.			
	d.			
D. Additional Descriptions for Materials listed Above			E. Handling Codes For Wastes Listed Above	
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Carrie Hernandez			Signature <i>Carrie Hernandez</i>	Month Day Year 12 12 08
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name 71 2002 1 4 50			Signature <i>[Signature]</i>	Month Day Year 12 12 08
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name			Signature	Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.				
Printed/Typed Name			Signature	Month Day Year

GENERATOR

TRANSPORTER

FACILITY



e-Lab Analytical, Inc.

10450 Standcliff Rd, Suite 210 Houston, Texas 77099-4338 (281) 530-5656 Fax (281) 530-5887

August 24, 2007

Jeff Byrd
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: DAF Disposal

Work Order : **0708424**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 1 sample on 8/14/2007 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 8.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Rebecca L. Hunt

Jeffrey L Croston
Project Manager



Certificate No: T104704231-06-TX

e-Lab Analytical, Inc.

Date: *August 24, 2007*

CLIENT: Navajo Refining Company
Project: DAF Disposal
Work Order: 0708424

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0708424-01	DAF	Solid		8/13/2007 15:00	8/14/2007 09:00	☐

e-Lab Analytical, Inc.

Date: August 24, 2007

CLIENT: Navajo Refining Company
Work Order: 0708424
Project: DAF Disposal
Lab ID: 0708424-01

Client Sample ID: DAF
Collection Date: 8/13/2007 3:00:00 PM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY - SOIL			E300		Prep Date: 8/23/2007	Analyst: LMD
Chloride	280		4.74	mg/Kg	1	8/23/2007 8:20:00 PM
Surr: Selenate (surr)	96.3		85-115	%REC	1	8/23/2007 8:20:00 PM
PAINT FILTER TEST			SW9095A			Analyst: LMD
Free Liquid	No Free Liquid			Pos/Neg	1	8/20/2007

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Aug 24 2007

CLIENT: Navajo Refining Company

Work Order: 0708424

Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25205 Instrument ID ICS3000 Method: E300

MBLK Sample ID: WBLKS1-082307 Units: mg/Kg Analysis Date: 08/23/07 19:26

Client ID: Run ID: ICS3000_070823A SeqNo: 1195750 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	5.0	0	0	0	0-0	0			
Surr: Selenate (surr)	48.66	1.0	50	0	97.3	85-115	0			

LCS Sample ID: WLCSS1-082307 Units: mg/Kg Analysis Date: 08/23/07 19:48

Client ID: Run ID: ICS3000_070823A SeqNo: 1195751 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	202.4	5.0	200	0	101	90-110	0			
Surr: Selenate (surr)	50.53	1.0	50	0	101	85-115	0			

MS Sample ID: 0708365-01AMS Units: mg/Kg Analysis Date: 08/24/07 13:40

Client ID: Run ID: ICS3000_070823A SeqNo: 1196296 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.8	4.8	97.07	8.62	99	75-125	0			
Surr: Selenate (surr)	47.03	0.97	48.54	0	96.9	80-120	0			

MSD Sample ID: 0708365-01AMSD Units: mg/Kg Analysis Date: 08/24/07 14:05

Client ID: Run ID: ICS3000_070823A SeqNo: 1196297 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.7	4.8	97.07	8.62	99	75-125	104.8	0.0742	20	
Surr: Selenate (surr)	47.02	0.97	48.54	0	96.9	80-120	47.03	0.0206	20	

DUP Sample ID: 0708365-01ADUP Units: mg/Kg Analysis Date: 08/23/07 23:10

Client ID: Run ID: ICS3000_070823A SeqNo: 1196293 Prep Date: 8/23/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.64	4.8	0	0	0	0-0	8.62	0.225	20	
Surr: Selenate (surr)	47.23	0.97	48.54	0	97.3	85-115	47.13	0.206	20	

The following samples were analyzed in this batch:

0708424-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708424
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **R53543** Instrument ID **WetChem** Method: **SW9095A** (Dissolve)

DUP Sample ID: **0708424-01ADUP** Units: **Pos/Neg** Analysis Date: **08/20/07 0:00**

Client ID: **DAF** Run ID: **WETCHEM_070820I** SeqNo: **1192730** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Free Liquid	ND	0	0	0	0		0	0	100	

The following samples were analyzed in this batch:

0708424-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

11

e-Lab Analytical, Inc.
3352 128th Avenue
Holland, Michigan 48033
(Tel) 616.399.6070
(Fax) 616.399.6185

The Chain of Custody is a Legal Document. All information must be completed accurately.

10752

Customer Information

Purchase Order	
Work Order	
Company Name	Navaja
Send Report To	J. Byrd
Address	
City/State/Zip	
Phone	
Fax	
e-Mail Address	

Project Information

[illegible]

Parameter/Method Request for Analysis

TCLP VOA
" Semi VOA
" Metals
RCI

[illegible]

Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i>		Date: 8/13/07 Date:		Time: 11:15 Time:		Slippage/Method Fed Ex		Required Turnaround Time: (Check Box) ☐ STD-10 Wk Days ☐ 5 Wk Days ☒ Other		Results Due Date: 8/16/07	
Logged by (Laboratory): Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ SO ₃ 6-NaHSO ₃ 7-Other 8-4 C 9-5035		Date: <i>[Signature]</i> Date:		Time: <i>[Signature]</i> Time:		Received by (Laboratory): Checked by (Laboratory):		e-Lab Analytical Cooler ID Trip Blank Number		QC Package: (Check One Box Below) ☐ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other	
Notes: <i>Red Complete Report</i>											

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

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Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 8/14/2007 9:00:00 AM

Work Order Number 0708282

Received by: RSZ

Checklist completed by [Signature] 8/14/07
Signature Date

Reviewed by [Signature] 8/14/07
Initials Date

Matrix: S

Carrier name: FedEx

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

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 ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 4.2c 002

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

Adjusted? _____ Checked by _____

Login Notes:

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

**e-Lab Analytical, Inc.**

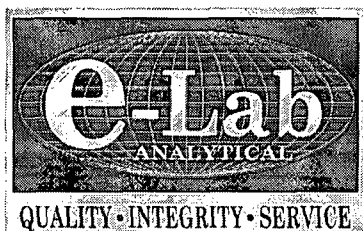
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. 281.530.5656
Fax. 281.530.5887

CUSTODY SEAL

Date: 8/13/07 Time: 1610
Name: SCF Byrd
Company: Alaska

Seal Broken By:

8-14-07



e-Lab Analytical, Inc.

10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 (281) 530-5656 Fax (281) 530-5887

August 16, 2007

Jeff Byrd
Navajo Refining Company
PO Box 159
Artesia, NM 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: DAF Disposal

Work Order : **0708282**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 1 sample on 8/14/2007 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 26.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Rebecca L. Hunt

Jeffrey L Croston
Project Manager



Certificate No: T104704231-06-TX

e-Lab Analytical, Inc.

Date: August 16, 2007

CLIENT: Navajo Refining Company

Project: DAF Disposal

Work Order: 0708282

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0708282-01	DAF	Soil		8/13/2007 15:00	8/14/2007 09:00	☐

e-Lab Analytical, Inc.

Date: August 16, 2007

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal
Lab ID: 0708282-01

Client Sample ID: DAF
Collection Date: 8/13/2007 3:00:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY						
Mercury	ND		SW7470 0.000200	mg/L	Prep Date: 8/15/2007 1	Analyst: JCJ 8/15/2007 1:47:46 PM
TCLP METALS, ICP						
Arsenic	ND		SW1311/6020 0.0500	mg/L	Prep Date: 8/15/2007 10	Analyst: ALR 8/15/2007 5:47:00 PM
Barium	0.183		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Cadmium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Chromium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Lead	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Selenium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Silver	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
TCLP SEMIVOLATILES						
2,4,5-Trichlorophenol	ND		SW1311/8270 5.0	µg/L	Prep Date: 8/15/2007 1	Analyst: ACN 8/16/2007 3:16:00 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Cresols, Total	61		30	µg/L	1	8/16/2007 3:16:00 PM
Hexachlorobenzene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Hexachloroethane	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Nitrobenzene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Pentachlorophenol	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Pyridine	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Surr: 2,4,6-Tribromophenol	64.0		42-124	%REC	1	8/16/2007 3:16:00 PM
Surr: 2-Fluorobiphenyl	67.0		48-120	%REC	1	8/16/2007 3:16:00 PM
Surr: 2-Fluorophenol	58.7		20-120	%REC	1	8/16/2007 3:16:00 PM
Surr: 4-Terphenyl-d14	65.6		51-135	%REC	1	8/16/2007 3:16:00 PM
Surr: Nitrobenzene-d5	68.7		41-120	%REC	1	8/16/2007 3:16:00 PM
Surr: Phenol-d6	63.0		20-120	%REC	1	8/16/2007 3:16:00 PM
TCLP VOLATILES						
1,1-Dichloroethene	ND		SW1311/8260B 100	µg/L	Prep Date: 8/14/2007 20	Analyst: PC 8/15/2007 1:40:00 PM
1,2-Dichloroethane	ND		100	µg/L	20	8/15/2007 1:40:00 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
2-Butanone	ND		200	µg/L	20	8/15/2007 1:40:00 PM
Benzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Carbon tetrachloride	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Chlorobenzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Chloroform	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Tetrachloroethene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Trichloroethene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Vinyl chloride	ND		100	µg/L	20	8/15/2007 1:40:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 16, 2007

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal
Lab ID: 0708282-01

Client Sample ID: DAF
Collection Date: 8/13/2007 3:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	102		70-125	%REC	20	8/15/2007 1:40:00 PM
Surr: 4-Bromofluorobenzene	105		72-125	%REC	20	8/15/2007 1:40:00 PM
Surr: Dibromofluoromethane	103		71-125	%REC	20	8/15/2007 1:40:00 PM
Surr: Toluene-d8	106		75-125	%REC	20	8/15/2007 1:40:00 PM
CYANIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Cyanide	ND		40.0	mg/Kg	1	8/13/2007
SULFIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Sulfide	ND		40.0	mg/Kg	1	8/13/2007
IGNITABILITY FOR SOLIDS			SW846, CHPT. 7.1.2			Analyst: RPM
Burns vigorously and persistently	No				1	8/15/2007
Ignites spontaneously	No				1	8/15/2007
Ignites through friction	No				1	8/15/2007
Ignites under std. temp and pressure	No				1	8/15/2007
Ignites with moisture	No				1	8/15/2007
PH IN SOLID			SW9045B			Analyst: TH
pH	7.19		0.100	pH Units	1	8/15/2007

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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* - Value exceeds Maximum Contaminant Level

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P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Aug 16 2007

CLIENT: Navajo Refining Company

QC BATCH REPORT

Work Order: 0708282

Project: DAF Disposal

Batch ID: 25068 Instrument ID Mercury Method: SW7470

MBLK Sample ID: GBLKT1-081507 Units: mg/L Analysis Date: 08/15/07 13:14

Client ID: Run ID: MERCURY_070815A SeqNo: 1189823 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

MBLK Sample ID: GBLKW1-081507 Units: mg/L Analysis Date: 08/15/07 12:55

Client ID: Run ID: MERCURY_070815A SeqNo: 1189834 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: GLCSW1-081507 Units: mg/L Analysis Date: 08/15/07 12:57

Client ID: Run ID: MERCURY_070815A SeqNo: 1189835 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00516	0.00020	0.005	0	103	80-120	0			

LCSD Sample ID: GLCSDW1-081507 Units: mg/L Analysis Date: 08/15/07 12:59

Client ID: Run ID: MERCURY_070815A SeqNo: 1189836 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00492	0.00020	0.005	0	98.4	80-120	0.00516	4.76	25	

MS Sample ID: 0708254-01BMS Units: mg/L Analysis Date: 08/15/07 13:06

Client ID: Run ID: MERCURY_070815A SeqNo: 1189816 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00493	0.00020	0.005	-0.000016	98.9	75-125	0			

MSD Sample ID: 0708254-01BMDS Units: mg/L Analysis Date: 08/15/07 13:08

Client ID: Run ID: MERCURY_070815A SeqNo: 1189819 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00482	0.00020	0.005	-0.000016	96.7	75-125	0.00493	2.26	20	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25068 Instrument ID Mercury Method: SW7470

DUP Sample ID: 0708254-01BDUP Units: mg/L Analysis Date: 08/15/07 13:03

Client ID: Run ID: MERCURY_070815A SeqNo: 1189815 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.000016	0	20	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **25074** Instrument ID **ICPMS02** Method: **SW1311/6020**

MBLK Sample ID: **MBLKT1-081407** Units: **mg/L** Analysis Date: **08/15/07 17:15**

Client ID: Run ID: **ICPMS02_070815A** SeqNo: **1190263** Prep Date: **8/15/2007** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

MBLK Sample ID: **MBLKW3-081507** Units: **mg/L** Analysis Date: **08/15/07 17:21**

Client ID: Run ID: **ICPMS02_070815A** SeqNo: **1190264** Prep Date: **8/15/2007** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

LCS Sample ID: **MLCSW3-081507** Units: **mg/L** Analysis Date: **08/15/07 17:28**

Client ID: Run ID: **ICPMS02_070815A** SeqNo: **1190265** Prep Date: **8/15/2007** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1807	0.050	0.2	0	90.4	80-120	0			
Barium	0.1939	0.050	0.2	0	97	80-120	0			
Cadmium	0.1976	0.050	0.2	0	98.8	80-120	0			
Chromium	0.1906	0.050	0.2	0	95.3	80-120	0			
Lead	0.2057	0.050	0.2	0	103	80-120	0			
Selenium	0.2032	0.050	0.2	0	102	80-120	0			
Silver	0.1866	0.050	0.2	0	93.3	80-120	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25074 Instrument ID ICPMS02 Method: SW1311/6020

MS Sample ID: 0708293-01AMS Units: mg/L Analysis Date: 08/15/07 18:43

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190276 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.193	0.050	0.2	0.0004601	96.3	75-125	0			
Barium	0.9508	0.050	0.2	0.7502	100	75-125	0			
Cadmium	0.197	0.050	0.2	0.001594	97.7	75-125	0			
Chromium	0.2012	0.050	0.2	0.01973	90.7	75-125	0			
Lead	0.2013	0.050	0.2	0.005644	97.8	75-125	0			
Selenium	0.2181	0.050	0.2	0.009863	104	75-125	0			
Silver	0.1717	0.050	0.2	-0.002527	87.1	75-125	0			

MSD Sample ID: 0708293-01AMSD Units: mg/L Analysis Date: 08/15/07 18:49

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190277 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1918	0.050	0.2	0.0004601	95.7	75-125	0.193	0.624	25	
Barium	0.9347	0.050	0.2	0.7502	92.2	75-125	0.9508	1.71	25	
Cadmium	0.1959	0.050	0.2	0.001594	97.2	75-125	0.197	0.56	25	
Chromium	0.1957	0.050	0.2	0.01973	88	75-125	0.2012	2.77	25	
Lead	0.2006	0.050	0.2	0.005644	97.5	75-125	0.2013	0.348	25	
Selenium	0.2191	0.050	0.2	0.009863	105	75-125	0.2181	0.457	25	
Silver	0.1644	0.050	0.2	-0.002527	83.5	75-125	0.1717	4.34	25	

DUP Sample ID: 0708293-01ADUP Units: mg/L Analysis Date: 08/15/07 18:31

Client ID: Run ID: ICPMS02_070815A SeqNo: 1190274 Prep Date: 8/15/2007 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050	0	0	0	0-0	0.0004601	0	25	
Barium	0.7598	0.050	0	0	0	0-0	0.7502	1.27	25	
Cadmium	ND	0.050	0	0	0	0-0	0.001594	0	25	
Chromium	0.01939	0.050	0	0	0	0-0	0.01973	0	25	J
Lead	0.004559	0.050	0	0	0	0-0	0.005644	0	25	J
Selenium	ND	0.050	0	0	0	0-0	0.009863	0	25	
Silver	ND	0.050	0	0	0	0-0	-0.002527	0	25	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **25077** Instrument ID **SV-3** Method: **SW8270**

MBLK Sample ID: **SBLKT1-070815** Units: **µg/L** Analysis Date: **08/16/07 13:54**

Client ID: Run ID: **SV-3_070816A** SeqNo: **1190903** Prep Date: **8/15/2007** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Cresols, Total	ND	5.0								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	5.0								
Hexachloroethane	ND	5.0								
Nitrobenzene	ND	5.0								
Pentachlorophenol	ND	5.0								
Pyridine	ND	5.0								
Surr: 2,4,6-Tribromophenol	70.22	0	100	0	70.2	42-124	0			
Surr: 2-Fluorobiphenyl	75.53	0	100	0	75.5	48-120	0			
Surr: 2-Fluorophenol	68.54	0	100	0	68.5	20-120	0			
Surr: 4-Terphenyl-d14	79.46	0	100	0	79.5	51-135	0			
Surr: Nitrobenzene-d5	80.11	0	100	0	80.1	41-120	0			
Surr: Phenol-d6	73.01	0	100	0	73	20-120	0			

LCS Sample ID: **SLCST1-070815** Units: **µg/L** Analysis Date: **08/16/07 14:22**

Client ID: Run ID: **SV-3_070816A** SeqNo: **1190904** Prep Date: **8/15/2007** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	87.64	5.0	100	0	87.6	52-115	0			
2,4,6-Trichlorophenol	81.31	5.0	100	0	81.3	56-115	0			
2,4-Dinitrotoluene	41.25	5.0	50	0	82.5	56-115	0			
Cresols, Total	202.3	5.0	200	0	101	48-115	0			
Hexachlorobenzene	44.78	5.0	50	0	89.6	54-115	0			
Hexachlorobutadiene	45.31	5.0	50	0	90.6	51-115	0			
Hexachloroethane	42.5	5.0	50	0	85	54-115	0			
Nitrobenzene	44.78	5.0	50	0	89.6	40-124	0			
Pentachlorophenol	83.93	5.0	100	0	83.9	45-125	0			
Pyridine	31.65	5.0	50	0	63.3	34-115	0			
Surr: 2,4,6-Tribromophenol	80.57	0	100	0	80.6	42-124	0			
Surr: 2-Fluorobiphenyl	78.86	0	100	0	78.9	48-120	0			
Surr: 2-Fluorophenol	73.94	0	100	0	73.9	20-120	0			
Surr: 4-Terphenyl-d14	80.66	0	100	0	80.7	51-135	0			
Surr: Nitrobenzene-d5	84.11	0	100	0	84.1	41-120	0			
Surr: Phenol-d6	76.29	0	100	0	76.3	20-120	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: 25077 Instrument ID SV-3 Method: SW8270

LCSD Sample ID: SLCSDT1-070815 Units: µg/L Analysis Date: 08/16/07 14:49

Client ID: Run ID: SV-3_070816A SeqNo: 1190905 Prep Date: 8/15/2007 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	83.3	5.0	100	0	83.3	52-115	87.64	5.08	30	
2,4,6-Trichlorophenol	81.91	5.0	100	0	81.9	56-115	81.31	0.731	30	
2,4-Dinitrotoluene	38.28	5.0	50	0	76.6	56-115	41.25	7.48	30	
Cresols, Total	193.9	5.0	200	0	97	48-115	202.3	4.22	30	
Hexachlorobenzene	44.33	5.0	50	0	88.7	54-115	44.78	1.02	30	
Hexachlorobutadiene	41.47	5.0	50	0	82.9	51-115	45.31	8.84	30	
Hexachloroethane	41.33	5.0	50	0	82.7	54-115	42.5	2.77	30	
Nitrobenzene	43.72	5.0	50	0	87.4	40-124	44.78	2.39	30	
Pentachlorophenol	83.14	5.0	100	0	83.1	45-125	83.93	0.951	30	
Pyridine	30.15	5.0	50	0	60.3	34-115	31.65	4.83	30	
Surr: 2,4,6-Tribromophenol	79.29	0	100	0	79.3	42-124	80.57	1.61	30	
Surr: 2-Fluorobiphenyl	78.23	0	100	0	78.2	48-120	78.86	0.806	30	
Surr: 2-Fluorophenol	72.85	0	100	0	72.8	20-120	73.94	1.49	30	
Surr: 4-Terphenyl-d14	80.29	0	100	0	80.3	51-135	80.66	0.465	30	
Surr: Nitrobenzene-d5	82.54	0	100	0	82.5	41-120	84.11	1.89	30	
Surr: Phenol-d6	74.73	0	100	0	74.7	20-120	76.29	2.07	30	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: **R53443** Instrument ID **VOA1** Method: **SW1311/8260**

MBLK		Sample ID: VBLKW-081507		Units: µg/L				Analysis Date: 08/15/07 11:31		
Client ID:		Run ID: VOA1_070815B		SeqNo: 1190701		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachloroethene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl chloride	ND	5.0								
<i>Surr: 1,2-Dichloroethane-d4</i>										
	49.44	5.0	50	0	98.9	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>										
	51.61	5.0	50	0	103	72.4-125	0			
<i>Surr: Dibromofluoromethane</i>										
	51.92	5.0	50	0	104	71.2-125	0			
<i>Surr: Toluene-d8</i>										
	50.51	5.0	50	0	101	75-125	0			

MBLK		Sample ID: VBLKTK1-081007		Units: µg/L				Analysis Date: 08/15/07 11:57		
Client ID:		Run ID: VOA1_070815B		SeqNo: 1190702		Prep Date: 8/10/2007		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
<i>Surr: 1,2-Dichloroethane-d4</i>										
	970.1	100	1000	0	97	70-125	0			
<i>Surr: 4-Bromofluorobenzene</i>										
	1055	100	1000	0	106	72.4-125	0			
<i>Surr: Dibromofluoromethane</i>										
	993.4	100	1000	0	99.3	71.2-125	0			
<i>Surr: Toluene-d8</i>										
	1032	100	1000	0	103	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: **R53443** Instrument ID **VOA1** Method: **SW1311/8260**

MBLK Sample ID: **VLKTK2-081407** Units: **µg/L** Analysis Date: **08/15/07 12:23**

Client ID: Run ID: **VOA1_070815B** SeqNo: **1190703** Prep Date: **8/14/2007** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	1015	100	1000	0	102	70-125	0			
Surr: 4-Bromofluorobenzene	1020	100	1000	0	102	72.4-125	0			
Surr: Dibromofluoromethane	1023	100	1000	0	102	71.2-125	0			
Surr: Toluene-d8	1037	100	1000	0	104	75-125	0			

LCS Sample ID: **VLCSW-081507** Units: **µg/L** Analysis Date: **08/15/07 10:40**

Client ID: Run ID: **VOA1_070815B** SeqNo: **1190700** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	49.96	5.0	50	0	99.9	73-124	0			
1,2-Dichloroethane	52.01	5.0	50	0	104	76-120	0			
1,4-Dichlorobenzene	48.57	5.0	50	0	97.1	70-130	0			
2-Butanone	102.8	10	100	0	103	70-130	0			
Benzene	49.68	5.0	50	0	99.4	70-128	0			
Carbon tetrachloride	54.52	5.0	50	0	109	70-130	0			
Chlorobenzene	48.42	5.0	50	0	96.8	72-127	0			
Chloroform	50.28	5.0	50	0	101	70-130	0			
Tetrachloroethene	50.24	5.0	50	0	100	70-130	0			
Trichloroethene	48.39	5.0	50	0	96.8	72-129	0			
Vinyl chloride	45.21	5.0	50	0	90.4	70-130	0			
Surr: 1,2-Dichloroethane-d4	51.8	5.0	50	0	104	70-125	0			
Surr: 4-Bromofluorobenzene	52.18	5.0	50	0	104	72-125	0			
Surr: Dibromofluoromethane	52.53	5.0	50	0	105	71-125	0			
Surr: Toluene-d8	53.15	5.0	50	0	106	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal

QC BATCH REPORT

Batch ID: **R53443** Instrument ID **VOA1** Method: **SW1311/8260**

MS Sample ID: **0708206-01AMS** Units: **µg/L** Analysis Date: **08/15/07 14:05**

Client ID: Run ID: **VOA1_070815B** SeqNo: **1190707** Prep Date: **8/14/2007** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	856	100	1000	0	85.6	73-124	0			
1,2-Dichloroethane	1078	100	1000	0	108	76-120	0			
1,4-Dichlorobenzene	930.3	100	1000	0	93	70-130	0			
2-Butanone	2232	200	2000	0	112	70-130	0			
Benzene	965.4	100	1000	0	96.5	70-128	0			
Carbon tetrachloride	951.3	100	1000	0	95.1	70-130	0			
Chlorobenzene	910.5	100	1000	0	91	72-127	0			
Chloroform	955.1	100	1000	0	95.5	70-130	0			
Tetrachloroethene	875.4	100	1000	0	87.5	70-130	0			
Trichloroethene	905	100	1000	0	90.5	72-129	0			
Vinyl chloride	744.7	100	1000	0	74.5	70-130	0			
Surr: 1,2-Dichloroethane-d4	1049	100	1000	0	105	70-125	0			
Surr: 4-Bromofluorobenzene	1027	100	1000	0	103	72-125	0			
Surr: Dibromofluoromethane	1049	100	1000	0	105	71-125	0			
Surr: Toluene-d8	1012	100	1000	0	101	75-125	0			

MSD Sample ID: **0708206-01AMSD** Units: **µg/L** Analysis Date: **08/15/07 14:31**

Client ID: Run ID: **VOA1_070815B** SeqNo: **1190709** Prep Date: **8/14/2007** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	872.4	100	1000	0	87.2	73-124	856	1.9	20	
1,2-Dichloroethane	1060	100	1000	0	106	76-120	1078	1.66	20	
1,4-Dichlorobenzene	933.3	100	1000	0	93.3	70-130	930.3	0.327	20	
2-Butanone	2197	200	2000	0	110	70-130	2232	1.57	20	
Benzene	960.9	100	1000	0	96.1	70-128	965.4	0.465	20	
Carbon tetrachloride	921.8	100	1000	0	92.2	70-130	951.3	3.15	20	
Chlorobenzene	952.6	100	1000	0	95.3	72-127	910.5	4.52	20	
Chloroform	970.2	100	1000	0	97	70-130	955.1	1.56	20	
Tetrachloroethene	880.1	100	1000	0	88	70-130	875.4	0.541	20	
Trichloroethene	906	100	1000	0	90.6	72-129	905	0.112	20	
Vinyl chloride	804.4	100	1000	0	80.4	70-130	744.7	7.71	20	
Surr: 1,2-Dichloroethane-d4	1060	100	1000	0	106	70-125	1049	1.1	20	
Surr: 4-Bromofluorobenzene	1022	100	1000	0	102	72-125	1027	0.482	20	
Surr: Dibromofluoromethane	1049	100	1000	0	105	71-125	1049	0.038	20	
Surr: Toluene-d8	1053	100	1000	0	105	75-125	1012	3.99	20	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **R53385** Instrument ID **WetChem** Method: **SW846, Chpt.**

DUP Sample ID: **0708311-02D DUP** Units: Analysis Date: **08/15/07 0:00**

Client ID: Run ID: **WETCHEM_070815E** SeqNo: **1189790** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Burns vigorously and persistently	ND	0	0	0	0	0-0	0	0	0	
Ignites spontaneously	ND	0	0	0	0	0-0	0	0	0	
Ignites through friction	ND	0	0	0	0	0-0	0	0	0	
Ignites under std. temp and pressur	ND	0	0	0	0	0-0	0	0	0	
Ignites with moisture	ND	0	0	0	0	0-0	0	0	0	

The following samples were analyzed in this batch:

0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0708282
Project: DAF Disposal

QC BATCH REPORT

Batch ID: **R53395** Instrument ID **WetChem** Method: **SW9045B**

LCS Sample ID: **WLCSS-081507** Units: **pH Units** Analysis Date: **08/15/07 0:00**

Client ID: Run ID: **WETCHEM_070815H** SeqNo: **1189915** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.03	0.10	6	0	100	90-110	0			

DUP Sample ID: **0708282-01ADUP** Units: **pH Units** Analysis Date: **08/15/07 0:00**

Client ID: **DAF** Run ID: **WETCHEM_070815H** SeqNo: **1189928** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.22	0.10	0	0	0	0-0	7.19	0.416	20	

The following samples were analyzed in this batch: 0708282-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



☐ e-Lab Analytical, Inc.
10450 Stanchiff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page of

☐ e-Lab Analytical, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

The Chain of Custody is a Legal Document. All information must be completed accurately.

Customer Information				Project Information				Parameter/Method Request for Analysis											
Project Name <i>DAF Disposal</i>				Project Number <i>100</i>				e-Lab Work Order # <i>108882</i>											
Bill To Company <i>Navaja</i>				Invoice Attn <i>J. Byrd</i>				e-Lab Project Manager <i>DAF Disposal</i>											
Address <i>10000</i>				City/State/Zip <i>10000</i>				e-Lab Project Manager <i>DAF Disposal</i>											
Phone <i>10000</i>				City/State/Zip <i>10000</i>				e-Lab Project Manager <i>DAF Disposal</i>											
Fax <i>10000</i>				City/State/Zip <i>10000</i>				e-Lab Project Manager <i>DAF Disposal</i>											
e-Mail Address <i>10000</i>				City/State/Zip <i>10000</i>				e-Lab Project Manager <i>DAF Disposal</i>											
No.	Sample Description	Date	Time	Matrix	Pres.	Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	DAF	8/13/07	1500	S	0	1	X	X	X	X									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s) Please Print & Sign <i>Navaja</i>				Shipment/Method <i>Fed Ex</i>				Required Turnaround Time: (Check Box) ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour										Results Due Date <i>8/16/07</i>	
Relinquished by <i>Navaja</i>				Received by (Laboratory) <i>Navaja</i>				QC Package: (Check One Box Below) ☐ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other										QC Package: (Check One Box Below)	
Relinquished by <i>Navaja</i>				Checked by (Laboratory) <i>Navaja</i>				e-Lab Analytical Cooler ID <i>10000</i>										e-Lab Analytical Cooler ID <i>10000</i>	
Logged by (Laboratory) <i>Navaja</i>				Date <i>8/13/07</i>				Time <i>1500</i>										Time <i>1500</i>	
Preservative Key: <i>1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 C 9-5035</i>																			

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.
2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

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e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: 8/14/2007 9:00:00 AM

Work Order Number 0708282

Received by: RSZ

Checklist completed by [Signature] 8/14/07
Signature Date

Reviewed by [Signature] 8/14/07
Initials Date

Matrix: S

Carrier name: FedEx

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

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 ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 4.2c 002

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

Adjusted? _____ Checked by _____

Login Notes:

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

 QUALITY • INTEGRITY • SERVICE	e-Lab Analytical, Inc. 10450 Stancilff Rd., Suite 210 Houston, Texas 77099 Tel. 281.530.5656 Fax. 281.530.5887	CUSTODY SEAL		Seal Broken By: 
		Date: <u>8/13/07</u>	Time: <u>1610</u>	Date: <u>8-14-07</u>
		Name: <u>JEFF Byrd</u>		
		Company: <u>Wack</u>		

e-Lab Analytical, Inc

Date: *August 16, 2007*

CLIENT: e-Lab Analytical, Inc

Project: 0708282

Work Order: 0708365

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0708365-01	0708282-01B	Soil		8/13/2007 15:00	8/15/2007 09:50	☐

e-Lab Analytical, Inc

Date: *August 16, 2007*

CLIENT: e-Lab Analytical, Inc

Project: 0708282

Work Order: 0708365

Case Narrative

Batch R51624 Reactive Cyanide LCS/LCSD and MS/MSD RPDs were above control limits. The individual recoveries were in control.

e-Lab Analytical, Inc

Date: August 16, 2007

CLIENT: e-Lab Analytical, Inc

Client Sample ID: 0708282-01B

Work Order: 0708365

Collection Date: 8/13/2007 3:00:00 PM

Project: 0708282

Lab ID: 0708365-01

Matrix: SOIL

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE						
Cyanide, Reactive	ND	40.0		mg/Kg	1	Analyst: ED 8/13/2007
SULFIDE, REACTIVE						
Sulfide, Reactive	ND	40.0		mg/Kg	1	Analyst: ED 8/13/2007

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc**Date:** Aug 16 2007**CLIENT:** e-Lab Analytical, Inc**QC BATCH REPORT****Work Order:** 0708365**Project:** 0708282Batch ID: **R51623** Instrument ID **WETCHEM** Method: **EPA 7.3.4.2****MBLK** Sample ID **MB-R51623** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**Client ID: Run ID: **WETCHEM_070813M** SeqNo: **839935** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch:

0708365-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: e-Lab Analytical, Inc
Work Order: 0708365
Project: 0708282

QC BATCH REPORT

Batch ID: **R51624** Instrument ID **WETCHEM** Method: **EPA 7.3.3.2**

MBLK Sample ID **WBLKW1081307** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839943** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	40								

LCS Sample ID **WLCSW1081307** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839944** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	352.3	40	620	0	56.8	2.8-70	0			

LCSD Sample ID **WLCSDW1081307** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839954** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	146.8	40	620	0	23.7	2.8-70	352.3	82.4	35	R

MS Sample ID **0708253-02A MS** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839952** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	411	40	620	0	66.3	2.8-70	0			

MSD Sample ID **0708253-02A MSD** Units: **mg/Kg** Analysis Date: **08/13/07 0:00**

Client ID: Run ID: **WETCHEM_070813N** SeqNo: **839953** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	146.8	40	620	0	23.7	2.8-70	411	94.7	35	R

The following samples were analyzed in this batch:

0708365-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

0708365



Subcontractor:
e-Lab Analytical, Inc.
3352 128th Ave.
Holland, MI 49424

QUALITY • INTEGRITY • SERVICE

CHAIN-OF-CUSTODY RECORD

TEL: (616) 399-6070
FAX: (616) 399-8185
Acct #:

Date: Aug 14, 2007
COC ID: 5412
Due Date 8/16/2007

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	Project Name	Project Number	Project Name	A	B	C	D	E	F	G	H	I	J			
Work Order	0708282	0708282	Cyanide, Reactive (SW-846)													
Company Name	e-Lab Analytical, Inc.	Bill To Company	e-Lab Analytical, Inc.	B	Sulfide, Reactive (SW-846)											
Send Report To	Jeffrey L Croston	Inv Attn	Accounts Payable	C												
Address	10450 Stanciliff Rd, Suite 210	Address	10450 Stanciliff Rd, Suite 210	D												
City/State/Zip	Houston, Texas 77099-4338	City/State/Zip	Houston, Texas 77099-4338	E												
Phone	(281) 530-5656	Phone	(281) 530-5656	F												
Fax	(281) 530-5887	Fax	(281) 530-5887	G												
eMail Address	jcroston@elabi.com	eMail CC	oelliston@elabi.com	H												
Sample ID	0708282-01B (DAF)	Matrix	Soil	I												
		Collection Date	8/13/2007 15:00	J												
		Bottle	(1) ZOZGNEAT		A	B	C	D	E	F	G	H	I	J		
					X	X										

Comments:

Please analyze for Reactive Cyanide & Reactive Sulfide.

Relinquished by:

Received by:

Date/Time

Date/Time

Received by:

Received by:

Date/Time

Date/Time

Cooler IDs

Report/QC Level

Std

e-Lab Analytical, Inc

Sample Receipt Checklist

Client Name ELAB-HOU

Date/Time Received: 8/15/2007 9:50:00 AM

Work Order Number 0708365

Received by: AJK

Checklist completed by



8/15/07
Date

Reviewed by



8/15/07
Date

Matrix: Soil

Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
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 ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>1.6°C</u>		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒

Adjusted? _____ Checked by _____

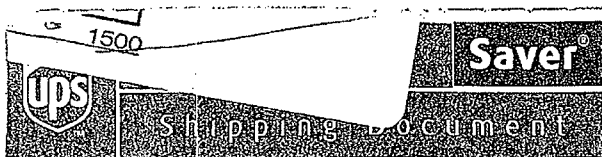
Login Notes:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



WEIGHT	10	DIMENSIONAL WEIGHT		LARGE AIR PACKAGE	☐
--------	----	--------------------	--	-------------------	--------------------------

SHIPPER RELEASE	☐
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The shipper authorizes UPS to act as forwarding agent for export control and customs purposes. The shipper certifies that these commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.



SHIPMENT FROM	
UPS ACCOUNT NO.	698174

REFERENCE NUMBER

SUB

RICHARD SANCHEZ

TELEPHONE
281-530-5656

E-LAB, INC.

1450 STANCLIFF RD STE #210

HOUSTON

TX 77099

DELIVERY TO	
-------------	--

RECEIVING

TELEPHONE
616-399-6070

E-LAB, INC.

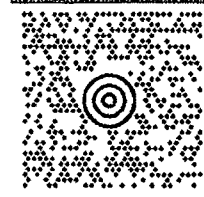
3352 128TH AVE

HOLLAND

MI 49424

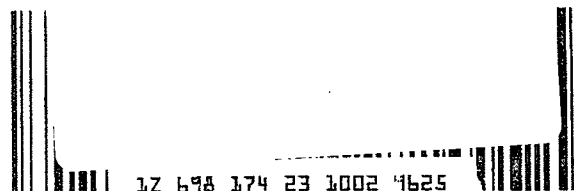
(URC v.48.0A 10/2005)
0201952542609 1/05 S

United Parcel Service, Louisville, KY



MI 495 9-04

UPS Next Day Air	Saver 1P
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SHIPMENT ID NUMBER	6981 7478 40K
--------------------	---------------

DWS ID Label

126981742310029625

	e-Lab Analytical, Inc.
	10450 Stancliff Rd., Suite 210
	Houston, Texas 77099
	Tel. 281.530.5656 Fax. 218.530.5887

CUSTOMER	
Date:	8/15/04
Name:	RICHARD SANCHEZ
Company:	e-LAB

By:
Date: 8/15/04

0708365

Jones, Brad A., EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, February 06, 2008 2:38 PM
To: Price, Wayne, EMNRD; Jim Wilson; Lackey, Johnny
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: RE: Possible improper waste disposal

This waste is NOT a listed RCRA waste at Navajo Refining-Artesia Plant.

The issue went thru a listing determination and was signed off on by NMED in a letter from Dave Cobrain to Darrell Moore dated July 19, 2000.

This letter was Cc'ed to Wayne Price, among others. The legal issue is that at Navajo Refining our DAF Unit is DOWNSTREAM of ABT (Agressive Biological Treatment) in our wastewater tanks. Therefore, by rule, it is non-hazardous. As an added precaution, we have sampled this waste numerous times and it has always passed the TCLP. The last test was done in the last quarter of 2007. The waste is NON-HAZARDOUS!

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Wednesday, February 06, 2008 11:36 AM
To: Jim Wilson; Moore, Darrell
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: Possible improper waste disposal

Dear Mr. Wilson:

It has come to OCD's attention that possible RCRA listed DAF (dissolved air floatation waste normally know as K-048) waste generated at the Navajo Artesia Refinery has been disposed of at the Artesia Aeration land farm OCD permit # NM1-30. Please be aware your permit or the regulations do not allow such waste to be disposed of at your facility.

You are hereby ordered to stop receiving such waste and perform the following actions:

1. Provide all paperwork, manifest, sample analysis concerning the waste in question to Mr. Brad Jones who will be on site tomorrow morning.
2. Also make arrangements so Mr. Jones may inspect all records during his inspection.
3. Isolate the waste in question until a final determination has been made by this agency for proper disposal.

Dear Mr. Moore:

Pursuant to our telephone conversation this morning you are hereby directed to stop disposing of the DAF waste generated at the Navajo Artesia Refinery at the Artesia Aeration landfarm OCD permit #NM1-30. You indicated this material is predominately dirt, scale, rust and is virtually oil free after it has gone thru the treatment process. You also indicated it is has been deemed non-hazardous. Please note landfarms are for remediating soils that have been contaminated with oilfield hydrocarbons. Since you indicated this material has already gone thru treatment it cannot be disposed of in the landfarm but must go to an OCD permitted landfill or another approved facility. You are hereby ordered to stop sending such waste to Artesia Aeration and perform the following actions today:

1. Provide a copy to this office of all of the paperwork, manifests, sample analysis, waste determinations concerning the waste in question.
2. Provide a copy or point out in your current discharge plan where this waste is approved to be disposed of.
3. Provide this agency a plan for approval to pick-up and properly dispose of the waste in question.

Wayne Price-Environmental Bureau Chief

Oil Conservation Division

1220 S. Saint Francis

Santa Fe, NM 87505

E-mail wayne.price@state.nm.us <mailto:wayne.price@state.nm.us>

Tele: 505-476-3490

Fax: 505-476-3462

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

This inbound email has been scanned by the MessageLabs Email Security System.

Jones, Brad A., EMNRD

From: Price, Wayne, EMNRD
Sent: Wednesday, February 06, 2008 11:36 AM
To: Jim Wilson; darrell.moore@navajo-refining.com
Cc: Jones, Brad A., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD
Subject: Possible improper waste disposal
Contacts: Jim Wilson

Dear Mr. Wilson:

It has come to OCD's attention that possible RCRA listed DAF (dissolved air floatation waste normally know as K-048) waste generated at the Navajo Artesia Refinery has been disposed of at the Artesia Aeration land farm OCD permit # NM1-30. Please be aware your permit or the regulations do not allow such waste to be disposed of at your facility. You are hereby ordered to stop receiving such waste and perform the following actions:

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2. Also make arrangements so Mr. Jones may inspect all records during his inspection.
3. Isolate the waste in question until a final determination has been made by this agency for proper disposal.

Dear Mr. Moore:

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1. Provide a copy to this office of all of the paperwork, manifests, sample analysis, waste determinations concerning the waste in question.
2. Provide a copy or point out in your current discharge plan where this waste is approved to be disposed of.
3. Provide this agency a plan for approval to pick-up and properly dispose of the waste in question.

Wayne Price-Environmental Bureau Chief
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3490
Fax: 505-476-3462

2/11/2008

**REFINING COMPANY, L.P.****FAX**

(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX

(505) 748-5419 ACCOUNTING
(505) 748-5451 EXEC/MKTG
(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

August 30, 2007

Mr. Jim Wilson
Artesia Aeration, Inc

RE: Approval of DAF for Disposal at Artesia Aeration

Dear Jim,

Navajo recently sent you a TCLP analysis of our DAF waste stream. Also included in that analysis were readings for chlorides and paint filter. Based on the analysis from this grab sample, I certify by my signature below that this waste stream is non-hazardous and can be landfarmed under the limits set by the New Mexico Oil Conservation Division in NMAC 19.15.36.15.

Sincerely,
NAVAJO REFINING COMPANY

Darrell Moore
Environmental Manager for Water and Waste

*Don't worry
about DAF
(sample)*

An Independent Refinery Serving . . .
NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO

District I
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
District IV
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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator <i>Navajo Refining Co</i>
2. Management Facility Destination <i>Artesia Aeration</i>	5. Originating Site <i>Artesia NM</i>
3. Address of Facility Operator	6. Transporter <i>S Brothers</i>
7. Location of Material (Street Address or ULSTR) <i>501 E Main Artesia</i>	8. State <i>NM</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL: *Dissolved Air Float from petroleum refining.*

Estimated Volume *80 oy/week* Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE _____ TITLE: _____ DATE: _____
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

E-MAIL ADDRESS _____

(This space for State Use)		
APPROVED BY: _____	TITLE: _____	DATE: _____
APPROVED BY: _____	TITLE: _____	DATE: _____

e-Lab Analytical, Inc.

Date: August 16, 2007

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal
 Lab ID: 0708282-01

Client Sample ID: DAF
 Collection Date: 8/13/2007 3:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY						
Mercury	ND		SW7470 0.000200	mg/L	Prep Date: 8/15/2007 1	Analyst: JCJ 8/15/2007 1:47:48 PM
TCLP METALS, ICP						
Arsenic	ND		SW1311/6020 0.0500	mg/L	Prep Date: 8/15/2007 10	Analyst: ALR 8/15/2007 5:47:00 PM
Barium	0.183		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Cadmium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Chromium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Lead	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Selenium	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
Silver	ND		0.0500	mg/L	10	8/15/2007 5:47:00 PM
TCLP SEMIVOLATILES						
2,4,5-Trichlorophenol	ND		SW1311/8270 5.0	µg/L	Prep Date: 8/15/2007 1	Analyst: AGN 8/16/2007 3:16:00 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Cresols, Total	61		30	µg/L	1	8/16/2007 3:16:00 PM
Hexachlorobenzene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Hexachloroethane	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Nitrobenzene	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Pentachlorophenol	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Pyridine	ND		5.0	µg/L	1	8/16/2007 3:16:00 PM
Surr: 2,4,6-Tribromophenol	64.0		42-124	%REC	1	8/16/2007 3:16:00 PM
Surr: 2-Fluorobiphenyl	67.0		48-120	%REC	1	8/16/2007 3:16:00 PM
Surr: 2-Fluorophenol	59.7		20-120	%REC	1	8/16/2007 3:16:00 PM
Surr: 4-Terphenyl-d14	65.6		51-135	%REC	1	8/16/2007 3:16:00 PM
Surr: Nitrobenzene-d5	66.7		41-120	%REC	1	8/16/2007 3:16:00 PM
Surr: Phenol-d6	63.0		20-120	%REC	1	8/16/2007 3:16:00 PM
TCLP VOLATILES						
1,1-Dichloroethene	ND		SW1311/8280B 100	µg/L	Prep Date: 8/14/2007 20	Analyst: PC 8/15/2007 1:40:00 PM
1,2-Dichloroethane	ND		100	µg/L	20	8/15/2007 1:40:00 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
2-Butanone	ND		200	µg/L	20	8/15/2007 1:40:00 PM
Benzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Carbon tetrachloride	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Chlorobenzene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Chloroform	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Tetrachloroethene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Trichloroethene	ND		100	µg/L	20	8/15/2007 1:40:00 PM
Vinyl chloride	ND		100	µg/L	20	8/15/2007 1:40:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

AR Page 1 of 2

e-Lab Analytical, Inc.

Date: August 16, 2007

CLIENT: Navajo Refining Company
 Work Order: 0708282
 Project: DAF Disposal
 Lab ID: 0708282-01

Client Sample ID: DAF
 Collection Date: 8/13/2007 3:00:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr. 1,2-Dichloroethane-d4	102		70-125	%REC	20	8/15/2007 1:40:00 PM
Surr. 4-Bromofluorobenzene	105		72-125	%REC	20	8/15/2007 1:40:00 PM
Surr. Dibromofluoromethane	103		71-125	%REC	20	8/15/2007 1:40:00 PM
Surr. Toluene-d8	106		75-125	%REC	20	8/15/2007 1:40:00 PM
CYANIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Cyanide	ND		40.0	mg/Kg	1	8/13/2007
SULFIDE, REACTIVE			SW-846			Analyst: MAG
Reactive Sulfide	ND		40.0	mg/Kg	1	8/13/2007
IGNITABILITY FOR SOLIDS			SW846, CHPT. 7.1.2			Analyst: RPM
Burns vigorously and persistently	No				1	8/15/2007
Ignites spontaneously	No				1	8/15/2007
Ignites through friction	No				1	8/15/2007
Ignites under std. temp and pressure	No				1	8/15/2007
Ignites with moisture	No				1	8/15/2007
PH IN SOLID			SW8045B			Analyst: TH
pH	7.19		0.100	pH Units	1	8/15/2007

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

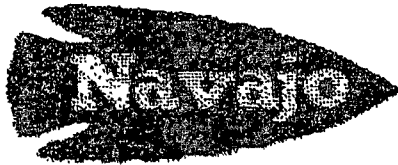
S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 2 of 2

ENVIRONMENTAL DEPARTMENT**PHONE: (505) 748-6733****FAX: (505) 746-5451****NAVAJO REFINING COMPANY****P.O. BOX 159****501 E. MAIN STREET****ARTESIA, NEW MEXICO 88210****SENDING TO: NAME: Jim Wilson****COMPANY NAME: Artesia Aeration****FAX: 505-3923085****SENDING FROM: NAME: Darrell Moore****DATE: 8/17/07****NO. OF PAGES: 6****(Including cover page)**

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL CARRIE AT THE NUMBER ABOVE.
Waste Status non-exempt waste material.

COMMENTS:

NOTE: Unless otherwise indicated or obvious from the nature of transmittal, the information contained in this facsimile message is privileged and confidential information intended for the use of the individual or entity named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error or are not sure whether it is privileged, please immediately notify us by telephone and return the original message to us at the above address via the U.S. Postal Service. Thank you!

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL**COMPANY / GENERATOR: Navajo RefiningADDRESS: 501 E Main Artesia NM 88211GENERATING SITE: Artesia PlantCOUNTY Eddy STATE NMTYPE OF WASTE: Dissolved Air FloatESTIMATED VOLUME: 80 cy/weekGENERATING PROCESS: Petroleum Refining

REMARKS: _____

NMOCD FACILITY: Artesia AerationTRUCKING COMPANY: S Brothers

As a condition of acceptance for disposal, I hereby 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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Darrell Moore
SIGNATURENAME: Darrell Moore
PRINTEDADDRESS: P.O. Box 159 Artesia NM 88211DATE: 8/17/07

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of		
3. Generator's Name and Mailing Address				No 8757		
4. Generator's Phone () Navajo						
5. Transporter 1 Company Name S Brothers		6. US EPA ID Number		A. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number		C. Facility's Phone		
11. Waste Shipping Name and Description				12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. DAF						
b.						
c.						
d.						
D. Additional Descriptions for Materials listed Above				E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name				Signature		Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Annis Murray				Signature		Month Day Year 01/19/08
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Month Day Year
19. Discrepancy Indication Space Non HAZ						
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.						
Printed/Typed Name				Signature		Month Day Year

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMD048918817	Manifest Doc. No.	2. Page 1 of 1		
3. Generator's Name and Mailing Address Navajo Kerinigg Co. LLC PO Box 159 Artesia, NM 88211-0159				Nº 8722		
4. Generator's Phone (575) 748-3311						
5. Transporter 1 Company Name S Brothers		6. US EPA ID Number		A. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number		C. Facility's Phone		
11. Waste Shipping Name and Description				12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. DAF					10 yds	
b.						
c.						
d.						
D. Additional Descriptions for Materials listed Above				E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name Carrie Hernandez		Signature Carrie Hernandez		Month Day Year		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Chris Murray		Signature Chris Murray		Month Day Year 01/21/08
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMD048918817	Manifest Doc. No.	2. Page 1 of 1		
3. Generator's Name and Mailing Address Navajo Refining Co. LLC PO Box 159 Artesia, NM 88211-0159				No 8723		
4. Generator's Phone (575) 748-3311		6. US EPA ID Number		A. Transporter's Phone		
5. Transporter 1 Company Name S Brothers		8. US EPA ID Number		B. Transporter's Phone		
7. Transporter 2 Company Name		10. US EPA ID Number		C. Facility's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM						
11. Waste Shipping Name and Description				12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. DAF					10 yds	
b. CELL 4						
c.						
d.						
D. Additional Descriptions for Materials listed Above				E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name Carrie Hernandez			Signature Carrie Hernandez		Month Day Year 1 21 08	
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature [Signature]		Month Day Year 1 21 08	
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMD048918817		Manifest Doc. No.		2. Page 1 of 1							
3. Generator's Name and Mailing Address Navajo Refining Co. LLC PO Box 159 Artesia, NM 88211-0159						№ 8724							
4. Generator's Phone (575) 748-3311													
5. Transporter 1 Company Name S Brothers				6. US EPA ID Number		A. Transporter's Phone							
7. Transporter 2 Company Name				8. US EPA ID Number		B. Transporter's Phone							
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM				10. US EPA ID Number		C. Facility's Phone							
11. Waste Shipping Name and Description						12. Containers		13. Total Quantity		14. Unit			
						No.		Type				Wt/Vol	
						a. DAF						10 yds	
						b.							
						c.							
d.													
D. Additional Descriptions for Materials listed Above						E. Handling Codes For Wastes Listed Above							
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16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.													
Printed/Typed Name Carrie Hernandez						Signature <i>Carrie Hernandez</i>			Month Day Year . . .				
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name <i>Chris Murray</i>						Signature <i>[Signature]</i>			Month Day Year 01/22/08				
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name						Signature			Month Day Year . . .				
19. Discrepancy Indication Space													
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.													
Printed/Typed Name						Signature			Month Day Year . . .				

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMD048918817	Manifest Doc. No.	2. Page 1 of 1		
3. Generator's Name and Mailing Address Navajo Refining Co. LLC PO Box 159 Artesia, NM 88211-0159			No 8733			
4. Generator's Phone (575) 748-3311						
5. Transporter 1 Company Name S Brothers		6. US EPA ID Number		A. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number		C. Facility's Phone		
11. Waste Shipping Name and Description			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. DAF					10 yds	
b.						
c.						
d.						
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16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name Carrie Hernandez			Signature Carrie Hernandez		Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature Chris Murray		Month Day Year 01/22/08	
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
19. Discrepancy Indication Space						
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Printed/Typed Name			Signature		Month Day Year	

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMD048918817	Manifest Doc. No.	2. Page 1 of 1		
3. Generator's Name and Mailing Address Navajo Refining Co. LLC PO Box 159 Artesia, NM 88211-0159				No 8732		
4. Generator's Phone (575) 748-3311						
5. Transporter 1 Company Name S Brothers		6. US EPA ID Number		A. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number		C. Facility's Phone		
11. Waste Shipping Name and Description				12. Containers No.	Type	13. Total Quantity
a. DAF						10 yds
b.						
c.						
d.						
D. Additional Descriptions for Materials listed Above				E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name Carrie Hernandez			Signature Carrie Hernandez		Month	Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials			Printed/Typed Name Chris Murray		Signature Chris Murray	
18. Transporter 2 Acknowledgement of Receipt of Materials			Printed/Typed Name		Signature	
19. Discrepancy Indication Space						
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month	Day Year

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMD048918817	Manifest Doc. No.	2. Page 1 of 1		
3. Generator's Name and Mailing Address Navajo Refining Co. LLC PO Box 159 Artesia, NM 88211-0159				Nº 8731		
4. Generator's Phone (575) 718-3311						
5. Transporter 1 Company Name S Brothers		6. US EPA ID Number		A. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number		C. Facility's Phone		
11. Waste Shipping Name and Description				12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. DAF					10 yds	
b.						
c.						
d.						
D. Additional Descriptions for Materials listed Above				E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
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Printed/Typed Name Carrie Hernandez			Signature Carrie Hernandez		Month	Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials			Printed/Typed Name Chris Murray		Signature Chris Murray	
18. Transporter 2 Acknowledgement of Receipt of Materials			Printed/Typed Name		Signature	
19. Discrepancy Indication Space						
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month	Day Year

GENERATOR

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FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMD048918817	Manifest Doc. No.	2. Page 1 of 1							
3. Generator's Name and Mailing Address Navajo Refining Co. LLC PO Box 159 Artesia, NM 88211-0159				№ 8713							
4. Generator's Phone (575) 748-3311											
5. Transporter 1 Company Name S Brothers		6. US EPA ID Number		A. Transporter's Phone							
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone							
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM		10. US EPA ID Number		C. Facility's Phone							
11. Waste Shipping Name and Description a. CEN DAF b. c. d.				12. Containers		13. Total		14. Unit			
				No.		Type		Quantity		Wt/Vol	
								10 yds			
D. Additional Descriptions for Materials listed Above						E. Handling Codes For Wastes Listed Above					
15. Special Handling Instructions, and Additional Information											
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.											
Printed/Typed Name CARRIE HERNANDEZ					Signature <i>Carrie Hernandez</i>		Month Day Year 11/28/08				
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name DAVID MOND W/BOX					Signature <i>David</i>		Month Day Year 11/28/08				
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name					Signature		Month Day Year				
19. Discrepancy Indication Space											
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.											
Printed/Typed Name					Signature		Month Day Year				

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMD048918817		Manifest Doc. No.		2. Page 1 of 1									
3. Generator's Name and Mailing Address Navajo Refining Co. LLC PO Box 159 Artesia, NM 88211-0159						No 8711									
4. Generator's Phone (575) 748-3311															
5. Transporter 1 Company Name S Brothers			6. US EPA ID Number		A. Transporter's Phone										
7. Transporter 2 Company Name			8. US EPA ID Number		B. Transporter's Phone										
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM			10. US EPA ID Number		C. Facility's Phone										
11. Waste Shipping Name and Description						12. Containers		13. Total		14. Unit					
						No. Type		Quantity		Wt/Vol					
						a. DAF DAF								10 yds	
b. CELL #4															
c. NPIF															
d.															
D. Additional Descriptions for Materials listed Above						E. Handling Codes For Wastes Listed Above									
15. Special Handling Instructions and Additional Information															
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.															
Printed/Typed Name CARRIE HERMANDEZ						Signature <i>Carrie Hernandez</i>			Month Day Year 1 28 08						
17. Transporter 1 Acknowledgement of Receipt of Materials															
Printed/Typed Name DAVID MENDOZA BOA						Signature <i>David M Bo</i>			Month Day Year 1 28 08						
18. Transporter 2 Acknowledgement of Receipt of Materials															
Printed/Typed Name						Signature			Month Day Year						
19. Discrepancy Indication Space															
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.															
Printed/Typed Name						Signature			Month Day Year						

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of		
3. Generator's Name and Mailing Address NAUATU ARTESIA N MEXICO PO BOX 159				No 8798		
4. Generator's Phone (575) 748-3311		6. US EPA ID Number		A. Transporter's Phone		
5. Transporter 1 Company Name SIBROTHERMS		8. US EPA ID Number		B. Transporter's Phone		
7. Transporter 2 Company Name		10. US EPA ID Number		C. Facility's Phone		
9. Designated Facility Name and Site Address ARTESIA AERATION, L.L.C. MALJAMAR, NM						
11. Waste Shipping Name and Description				12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. DAF CEP					10 YDS	
b. NPFL						
c. CELL 4						
d.						
D. Additional Descriptions for Materials listed Above				E. Handling Codes For Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name			Signature		Month Day Year 1 30 08	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name DA/MCAIN 1304			Signature		Month Day Year 1 30 08	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator. Certification of receipt of wasted material covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	

GENERATOR

TRANSPORTER

FACILITY