

GW - 1

**MONITORING
REPORTS**

DATE:

2005 - 2006



2006 MAR 27 PM 12:05

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

Certified Mail: 7004 2510 0005 1641 4798

March 23, 2006

**RE: Giant Refining Company, Bloomfield Refinery
EPA ID# NMD089416416**

Dear Mr. Price,

Please find attached the updated revision of Table 1C from the River Terrace Work Plan. The modification includes NMED's requirement to include mercury in the quarterly analytical suite for DW-1.

NMED also requires Giant Refining – Bloomfield to report the quarterly mercury analytical data within 10 days of receipt of the laboratory results. Included with this packet are the First Quarter-2006 results for DW-1. Samples were pulled March 8, 2006. The mercury level for DW-1 was 0.021 ppm, which exceeds the EPA MCL of 0.002 ppm. Giant Refining – Bloomfield will continue to monitor DW-1.

The first quarter 2006 sampling event for the San Juan River was conducted January 5, 2006. Analytical results are enclosed with this packet. There was not an exceedance of any WQCC standard or EPA maximum contaminant level during this sampling event.

First quarter 2006 Tank #33 and Fresh Water Pond samples were pulled on March 1, 2006. Analytical results are included with this packet. Tank #33 benzene levels were below WQCC standards at a concentration of <0.001 ug/L. Fresh Water Pond results were non detect, also.

PHONE
505-632-8013
FAX
505-632-3911

50 ROAD 4990
P.O. BOX 159
BLOOMFIELD
NEW MEXICO
87413

If you need additional information, please contact me at (505) 632-4161.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Hurtado". The signature is written in black ink and is positioned above the printed name and title.

Cindy Hurtado
Environmental Coordinator
Giant Refining – Bloomfield

Cc: Hope Monzeglio - NMED
Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

Table 1C: Summary of Performance Monitoring Activities

Bioventing Monitoring Plan
Giant Refinery - Bloomfield, New Mexico

Location	Matrix	DTW / DTP	Temp	pH	Cond	DO	ORP	% CO2	% O2	Organic Vapors (PID)	Pressure *	Baseline Samples
MW-48	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO, Pb & Cr
MW-49	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO, Pb & Cr
DW-1	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO, Pb & Cr, Hg*
DW-2	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO, Pb & Cr
TP-1	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-2	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-3	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-4	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-5	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-6	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-8	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-9	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-10	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-11	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-12	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
TP-13	GW	WMQ	WMQ	WMQ	WMQ	WMQ	WMQ					Q-B, GRO, DRO
GAC Inf	EW											Q-B, GRO, DRO
GAC 1 Eff	EW											W*M - B, GRO, DRO
GAC 2 Eff	EW											Q - B, GRO, DRO
MW-48	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
MW-49	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
DW-1	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
DW-2	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-1	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-2	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-3	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-4	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-5	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-6	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-8	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-9	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-10	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-11	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-12	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO
TP-13	A							WMQ	WMQ	WMQ	WMQ	Q - B ⁽²⁾ , GRO

* Pressure - Full system and individual well injection pressure will be recorded during each monitoring event.

Matrix
GW - groundwater
EW - Extracted groundwater
A - soil gas

Field Parameters
DTW - Depth to water measurement
DTP - Depth to product measurement
Temp - temperature
Cond - conductivity
DO - dissolved oxygen
ORP - oxidation-reduction potential
% CO2 - percent carbon dioxide
% O2 - percent oxygen
PID - photoionization detector

Analytical Analysis
B - BTEX, MTBE by EPA Method 8021B
B⁽²⁾ - BTEX only by EPA Method 8021B
GRO - GRO by EPA Method 8015B
DRO - DRO by EPA Method 8051B
Pb & Cr - Total Lead and Chromium using EPA Method 6010
Hg* - Mercury by EPA Method 7470 (Collected 1st and 2nd Quarter of 2006 only)

Sample Frequency
WMQ - Weekly x 4 (a sample will be collected once a week for the initial four weeks of operation), monthly for first quarter, then quarterly thereafter.
Q - Quarterly
W*M - Weekly until breakthrough is detected; monthly thereafter.

AT 60 DAYS AND IN AUGUST 2006- PERFORM IN-SITU RESPIRATION TESTING
Shutdown blower and monitor oxygen/carbon dioxide levels in TP-1, 2, 5, 6, 8, 9, and each of the 13 BV wells.
Monitor every 1/2 hour for first 4 hours, then every hour until hour 12. Then monitor every 10 to 12 hours up to 48 to 72 hours.



COVER LETTER

Wednesday, March 22, 2006

Cindy Hurtado
San Juan Refining
#50 CR-4990

Bloomfield, NM 87413

TEL: (505) 632-4161

FAX (505) 632-3911

RE: River Terrace- 1st Quarter 2006 - Water

Order No.: 0603115

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/9/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

AZ license # AZ0682
ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory

Date: 22-Mar-06

CLIENT: San Juan Refining
 Lab Order: 0603115
 Project: River Terrace- 1st Quarter 2006 - Water
 Lab ID: 0603115-01

Client Sample ID: DW #1
 Collection Date: 3/8/2006 8:55:00 AM
 Date Received: 3/9/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	2.2	1.0		mg/L	1	3/16/2006 5:32:05 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/16/2006 5:32:05 AM
Surr: DNOP	118	58-140		%REC	1	3/16/2006 5:32:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2.8	0.25		mg/L	5	3/16/2006 11:22:35 AM
Surr: BFB	108	79.7-118		%REC	5	3/16/2006 11:22:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	12		µg/L	5	3/20/2006 4:43:11 PM
Benzene	ND	5.0		µg/L	5	3/20/2006 4:43:11 PM
Toluene	ND	5.0		µg/L	5	3/20/2006 4:43:11 PM
Ethylbenzene	41	5.0		µg/L	5	3/20/2006 4:43:11 PM
Xylenes, Total	230	15		µg/L	5	3/20/2006 4:43:11 PM
Surr: 4-Bromofluorobenzene	95.8	82.2-119		%REC	5	3/20/2006 4:43:11 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	0.021	0.0010		mg/L	5	3/9/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Chromium	0.0095	0.0060		mg/L	1	3/15/2006 12:03:43 PM
Lead	ND	0.0050		mg/L	1	3/15/2006 12:03:43 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Mar-06

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining

Work Order: 0603115

Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8015DRO_W

Sample ID: MB-9976	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 3/14/2006	RunNo: 18596						
Client ID: ZZZZZ	Batch ID: 9976	TestNo: SW8015		Analysis Date: 3/16/2006	SeqNo: 461813						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0									
Motor Oil Range Organics (MRO)	ND	5.0									

Sample ID: LCS-9976	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 3/14/2006	RunNo: 18596						
Client ID: ZZZZZ	Batch ID: 9976	TestNo: SW8015		Analysis Date: 3/16/2006	SeqNo: 461814						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.300	1.0	5	0	106	81.2	149				

Sample ID: LCSD-9976	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 3/14/2006	RunNo: 18596						
Client ID: ZZZZZ	Batch ID: 9976	TestNo: SW8015		Analysis Date: 3/16/2006	SeqNo: 461040						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.766	1.0	5	0	115	81.2	149	0	0	23	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0603115
 Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8015GRO_W

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18582						
Client ID: ZZZZ	Batch ID: R18582	TestNo: SW8015		Analysis Date: 3/14/2006	SeqNo: 460723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050									

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18620						
Client ID: ZZZZ	Batch ID: R18620	TestNo: SW8015		Analysis Date: 3/16/2006	SeqNo: 462331						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050									

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18652						
Client ID: ZZZZ	Batch ID: R18652	TestNo: SW8015		Analysis Date: 3/20/2006	SeqNo: 463005						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050									

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18582						
Client ID: ZZZZ	Batch ID: R18582	TestNo: SW8015		Analysis Date: 3/15/2006	SeqNo: 460724						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4820	0.050	0.5	0	96.4	82.6	114				

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18620						
Client ID: ZZZZ	Batch ID: R18620	TestNo: SW8015		Analysis Date: 3/16/2006	SeqNo: 462332						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4940	0.050	0.5	0	98.8	82.6	114				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0603115

Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8015GRO_W

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18652						
Client ID: ZZZZZ	Batch ID: R18652	TestNo: SW8015		Analysis Date: 3/20/2006	SeqNo: 463006						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.5220	0.050	0.5	0	104	82.6	114				

Sample ID: 2.5UG GRO LCSD	SampType: LCSD	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18652						
Client ID: ZZZZZ	Batch ID: R18652	TestNo: SW8015		Analysis Date: 3/20/2006	SeqNo: 463007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.5140	0.050	0.5	0	103	82.6	114	0.522	1.54	8.39	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: San Juan Refining
Work Order: 0603115
Project: River Terrace- 1st Quarter 2006 - Water

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021BTEX_W

Sample ID: 5ML RB **SampType:** MBLK **TestCode:** 8021BTEX_W **Units:** µg/L **Prep Date:** **RunNo:** 18582
Client ID: ZZZZZ **Batch ID:** R18582 **TestNo:** SW8021 **Analysis Date:** 3/14/2006 **SeqNo:** 460824

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	3.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									

Sample ID: 5ML RB **SampType:** MBLK **TestCode:** 8021BTEX_W **Units:** µg/L **Prep Date:** **RunNo:** 18620
Client ID: ZZZZZ **Batch ID:** R18620 **TestNo:** SW8021 **Analysis Date:** 3/16/2006 **SeqNo:** 462157

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	3.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									

Sample ID: 5ML RB **SampType:** MBLK **TestCode:** 8021BTEX_W **Units:** µg/L **Prep Date:** **RunNo:** 18652
Client ID: ZZZZZ **Batch ID:** R18652 **TestNo:** SW8021 **Analysis Date:** 3/20/2006 **SeqNo:** 462985

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	3.0									

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0603115

Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8021BTEX_W

Sample ID: 75NG BTEX CCV-B	SampleType: LCS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18582
Client ID: ZZZZ	Batch ID: R18582	TestNo: SW8021		Analysis Date: 3/14/2006	SeqNo: 460825

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	30.25	2.5	30	0	101	64.5	133				
Benzene	13.95	1.0	15	0	93.0	88.5	114				
Toluene	15.27	1.0	15	0	102	87.2	114				
Ethylbenzene	14.05	1.0	15	0	93.7	88.6	113				
Xylenes, Total	43.93	3.0	45	0	97.6	83.3	114				
1,2,4-Trimethylbenzene	14.10	1.0	15	0	94.0	83.8	114				
1,3,5-Trimethylbenzene	14.09	1.0	15	0	93.9	82.8	114				

Sample ID: 100NG BTEX LCS	SampleType: LCS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18620
Client ID: ZZZZ	Batch ID: R18620	TestNo: SW8021		Analysis Date: 3/16/2006	SeqNo: 462158

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	16.48	2.5	20	0	82.4	64.5	133				
Benzene	19.52	1.0	20	0	97.6	88.5	114				
Toluene	20.29	1.0	20	0	101	87.2	114				
Ethylbenzene	19.77	1.0	20	0	98.9	88.6	113				
Xylenes, Total	41.12	3.0	40	0	103	83.3	114				
1,2,4-Trimethylbenzene	18.22	1.0	20	0	91.1	83.8	114				
1,3,5-Trimethylbenzene	18.27	1.0	20	0	91.4	82.8	114				

Sample ID: 100NG BTEX LCS	SampleType: LCS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18652
Client ID: ZZZZ	Batch ID: R18652	TestNo: SW8021		Analysis Date: 3/20/2006	SeqNo: 462986

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	17.56	2.5	20	0	87.8	64.5	133				
Benzene	19.29	1.0	20	0	96.5	88.5	114				
Toluene	19.91	1.0	20	0	99.5	87.2	114				
Ethylbenzene	19.48	1.0	20	0	97.4	88.6	113				
Xylenes, Total	40.17	3.0	40	0	100	83.3	114				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0603115
 Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8021BTEX_W

Sample ID: 100NG BTEX LCSD	SampType: LCSD	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18652
Client ID: ZZZZ	Batch ID: R18652	TestNo: SW8021		Analysis Date: 3/20/2006	SeqNo: 462987

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	18.04	2.5	20	0	90.2	64.5	133	17.56	2.71	28	
Benzene	18.80	1.0	20	0	94.0	88.5	114	19.29	2.59	27	
Toluene	19.36	1.0	20	0	96.8	87.2	114	19.91	2.77	19	
Ethylbenzene	18.99	1.0	20	0	95.0	88.6	113	19.48	2.55	10	
Xylenes, Total	39.15	3.0	40	0	97.9	83.3	114	40.17	2.58	13	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: San Juan Refining
 Work Order: 0603115
 Project: River Terrace- 1st Quarter 2006 - Water

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTW

Sample ID: MB-9952	SampType: MBLK	TestCode: HG_CTW	Units: mg/L	Prep Date: 3/9/2006	RunNo: 18533						
Client ID: ZZZZ	Batch ID: 9952	TestNo: SW7470	(SW7470)	Analysis Date: 3/9/2006	SeqNo: 459419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020									

Sample ID: LCS-9952	SampType: LCS	TestCode: HG_CTW	Units: mg/L	Prep Date: 3/9/2006	RunNo: 18533						
Client ID: ZZZZ	Batch ID: 9952	TestNo: SW7470	(SW7470)	Analysis Date: 3/9/2006	SeqNo: 459420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004605	0.00020	0.005	0	92.1	80	120				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT:
Work Order:

San Juan Refining
0603115

ANALYTICAL QC SUMMARY REPORT

Project: River Terrace- 1st Quarter 2006 - Water

TestCode: METALS_TOTAL

Sample ID: MB-9981	SampleType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/14/2006	RunNo: 18593						
Client ID: ZZZZZ	Batch ID: 9981	TestNo: SW6010A		Analysis Date: 3/15/2006	SeqNo: 460967						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 0.0060
Lead ND 0.0050

Sample ID: LCS-9981	SampleType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/14/2006	RunNo: 18593						
Client ID: ZZZZZ	Batch ID: 9981	TestNo: SW6010A		Analysis Date: 3/15/2006	SeqNo: 460968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 0.5162 0.0060 0.5 0.0006694 103 80 120
Lead 0.5222 0.0050 0.5 0 104 80 120

Sample ID: LCSB-9981	SampleType: LCSB	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/14/2006	RunNo: 18593						
Client ID: ZZZZZ	Batch ID: 9981	TestNo: SW6010A		Analysis Date: 3/15/2006	SeqNo: 460969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 0.5112 0.0060 0.5 0.0006694 102 80 120 0.5162 0.979 20
Lead 0.5219 0.0050 0.5 0 104 80 120 0.5222 0.0546 20

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

3/9/2006

Work Order Number 0603115

Received by AT

Checklist completed by

[Signature]

Date

3/9/06

Matrix

Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? 1° 4° C ± 2 Acceptable
if given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: SAN JUAN Refining

Address: #50 Rd 4990

Blomfield, NM 89413

Phone #: 505-632-4161

Fax #: 505-632-3911

QA/QC Package:
 Std Level 4

Other:

Project Name: River Terrace - 1st Qtr - 2006 - water

Project #:

Project Manager:

Cindy Hurtado
 Sample: Cindy Hurtado / Shelly Gubler
 Sample Temperature:

Number/Volume	Preservative		HEAL No.
	HgCl ₂	HNO ₃	
H-VOA			0603/15-1
1-500ml	X		-1

Date	Time	Matrix	Sample I.D. No.
3/8/06	8:55A	WATER	DW#1
11	11	11	11

Date: 3/8/06 Time: 3:10p
 Relinquished By: (Signature) Cindy Hurtado

Received By: (Signature) [Signature]
 Received By: (Signature) [Signature]

1000

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com

ANALYSIS REQUEST

Analysis	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Total Pb, Cu, Hg	Air Bubbles or Headspace (Y or N)
	X		X										X	

Remarks:

COVER LETTER

Wednesday, February 22, 2006

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413

TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Sampling 1st Qtr 2006

Order No.: 0601064

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/6/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

AZ license # AZ0682
ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
Project: River Sampling 1st Qtr 2006
Lab Order: 0601064

CASE NARRATIVE

The 8270 samples were analyzed by a subcontract laboratory.

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-01

Client Sample ID: N of MW #45
 Collection Date: 1/5/2006 2:55:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/9/2006 8:01:56 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/9/2006 8:01:56 PM
Surr: DNOP	120	58-140		%REC	1	1/9/2006 8:01:56 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/12/2006 7:46:33 PM
Surr: BFB	94.9	79.7-118		%REC	1	1/12/2006 7:46:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	1/12/2006 7:46:33 PM
Benzene	ND	0.50		µg/L	1	1/12/2006 7:46:33 PM
Toluene	ND	0.50		µg/L	1	1/12/2006 7:46:33 PM
Ethylbenzene	ND	0.50		µg/L	1	1/12/2006 7:46:33 PM
Xylenes, Total	ND	0.50		µg/L	1	1/12/2006 7:46:33 PM
EPA METHOD 300.0: ANIONS						Analyst: TES
Fluoride	ND	0.10		mg/L	1	1/7/2006
Chloride	2.6	0.10		mg/L	1	1/7/2006
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	1/7/2006
Bromide	ND	0.50		mg/L	1	1/7/2006
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	1/7/2006
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	1/7/2006
Sulfate	61	0.50		mg/L	1	1/7/2006
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	1/9/2006
EPA METHOD 6010B: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	1/16/2006 9:49:39 AM
Barium	0.060	0.0020		mg/L	1	1/16/2006 9:49:39 AM
Cadmium	ND	0.0020		mg/L	1	1/16/2006 9:49:39 AM
Calcium	35	1.0		mg/L	1	1/16/2006 9:49:39 AM
Chromium	ND	0.0060		mg/L	1	1/16/2006 9:49:39 AM
Copper	ND	0.0060		mg/L	1	1/16/2006 9:49:39 AM
Iron	0.025	0.020		mg/L	1	1/16/2006 9:49:39 AM
Lead	ND	0.0050		mg/L	1	1/16/2006 9:49:39 AM
Magnesium	6.1	1.0		mg/L	1	1/16/2006 9:49:39 AM
Manganese	0.022	0.0020		mg/L	1	1/16/2006 9:49:39 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-01

Client Sample ID: N of MW #45
 Collection Date: 1/5/2006 2:55:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: DISSOLVED METALS						Analyst: NMO
Potassium	1.9	1.0		mg/L	1	1/16/2006 9:49:39 AM
Selenium	ND	0.050		mg/L	1	1/16/2006 9:49:39 AM
Silver	ND	0.0050		mg/L	1	1/16/2006 9:49:39 AM
Sodium	20	1.0		mg/L	1	1/16/2006 9:49:39 AM
Uranium	ND	0.10		mg/L	1	1/16/2006 9:49:39 AM
Zinc	0.11	0.0050		mg/L	1	1/16/2006 9:49:39 AM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: CMC
Arsenic	ND	0.020		mg/L	1	1/16/2006 2:43:12 PM
Barium	0.063	0.020		mg/L	1	1/16/2006 2:43:12 PM
Cadmium	ND	0.0020		mg/L	1	1/16/2006 2:43:12 PM
Chromium	ND	0.0060		mg/L	1	1/16/2006 2:43:12 PM
Lead	ND	0.0050		mg/L	1	1/16/2006 2:43:12 PM
Selenium	ND	0.050		mg/L	1	1/16/2006 2:43:12 PM
Silver	ND	0.0050		mg/L	1	1/16/2006 2:43:12 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	10		µg/L	1	2/16/2006
Acenaphthylene	ND	10		µg/L	1	2/16/2006
Anthracene	ND	10		µg/L	1	2/16/2006
Benz(a)anthracene	ND	15		µg/L	1	2/16/2006
Benzo(a)pyrene	ND	15		µg/L	1	2/16/2006
Benzo(b)fluoranthene	ND	15		µg/L	1	2/16/2006
Benzo(g,h,i)perylene	ND	10		µg/L	1	2/16/2006
Benzo(k)fluoranthene	ND	10		µg/L	1	2/16/2006
Benzic acid	ND	50		µg/L	1	2/16/2006
Benzyl alcohol	ND	20		µg/L	1	2/16/2006
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	2/16/2006
Bis(2-chloroethyl)ether	ND	15		µg/L	1	2/16/2006
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	2/16/2006
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	2/16/2006
4-Bromophenyl phenyl ether	ND	10		µg/L	1	2/16/2006
Butyl benzyl phthalate	ND	15		µg/L	1	2/16/2006
4-Chloro-3-methylphenol	ND	20		µg/L	1	2/16/2006
4-Chloroaniline	ND	20		µg/L	1	2/16/2006
2-Chloronaphthalene	ND	10		µg/L	1	2/16/2006
2-Chlorophenol	ND	10		µg/L	1	2/16/2006
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	2/16/2006
Chrysene	ND	15		µg/L	1	2/16/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-01

Client Sample ID: N of MW #45
 Collection Date: 1/5/2006 2:55:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Di-n-butyl phthalate	ND	10		µg/L	1	2/16/2006
Di-n-octyl phthalate	ND	15		µg/L	1	2/16/2006
Dibenz(a,h)anthracene	ND	10		µg/L	1	2/16/2006
Dibenzofuran	ND	10		µg/L	1	2/16/2006
1,2-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
1,3-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
1,4-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
3,3'-Dichlorobenzidine	ND	15		µg/L	1	2/16/2006
Diethyl phthalate	ND	10		µg/L	1	2/16/2006
Dimethyl phthalate	ND	10		µg/L	1	2/16/2006
2,4-Dichlorophenol	ND	10		µg/L	1	2/16/2006
2,4-Dimethylphenol	ND	10		µg/L	1	2/16/2006
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	2/16/2006
2,4-Dinitrophenol	ND	50		µg/L	1	2/16/2006
2,4-Dinitrotoluene	ND	50		µg/L	1	2/16/2006
2,6-Dinitrotoluene	ND	10		µg/L	1	2/16/2006
Fluoranthene	ND	10		µg/L	1	2/16/2006
Fluorene	ND	10		µg/L	1	2/16/2006
Hexachlorobenzene	ND	10		µg/L	1	2/16/2006
Hexachlorobutadiene	ND	10		µg/L	1	2/16/2006
Hexachloroethane	ND	10		µg/L	1	2/16/2006
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	2/16/2006
Isophorone	ND	10		µg/L	1	2/16/2006
2-Methylnaphthalene	ND	10		µg/L	1	2/16/2006
2-Methylphenol	ND	15		µg/L	1	2/16/2006
3+4-Methylphenol	ND	20		µg/L	1	2/16/2006
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	2/16/2006
N-Nitrosodiphenylamine	ND	10		µg/L	1	2/16/2006
Naphthalene	ND	10		µg/L	1	2/16/2006
2-Nitroaniline	ND	50		µg/L	1	2/16/2006
3-Nitroaniline	ND	50		µg/L	1	2/16/2006
4-Nitroaniline	ND	50		µg/L	1	2/16/2006
Nitrobenzene	ND	10		µg/L	1	2/16/2006
2-Nitrophenol	ND	15		µg/L	1	2/16/2006
4-Nitrophenol	ND	50		µg/L	1	2/16/2006
Pentachlorophenol	ND	50		µg/L	1	2/16/2006
Phenanthrene	ND	10		µg/L	1	2/16/2006
Phenol	ND	10		µg/L	1	2/16/2006
Pyrene	ND	15		µg/L	1	2/16/2006
1,2,4-Trichlorobenzene	ND	10		µg/L	1	2/16/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-01

Client Sample ID: N of MW #45
 Collection Date: 1/5/2006 2:55:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
2,4,5-Trichlorophenol	ND	50		µg/L	1	2/16/2006
2,4,6-Trichlorophenol	ND	15		µg/L	1	2/16/2006
Surr: 2,4,6-Tribromophenol	66.0	18.6-150		%REC	1	2/16/2006
Surr: 2-Fluorobiphenyl	67.0	19.6-134		%REC	1	2/16/2006
Surr: 2-Fluorophenol	49.0	9.54-113		%REC	1	2/16/2006
Surr: 4-Terphenyl-d14	81.0	22.7-145		%REC	1	2/16/2006
Surr: Nitrobenzene-d5	64.0	14.6-134		%REC	1	2/16/2006
Surr: Phenol-d5	36.0	10.7-80.3		%REC	1	2/16/2006
EPA METHOD 310.1: ALKALINITY						Analyst: TES
Alkalinity, Total (As CaCO3)	81	2.0		mg/L CaCO3	1	1/9/2006
Carbonate	ND	2.0		mg/L CaCO3	1	1/9/2006
Bicarbonate	81	2.0		mg/L CaCO3	1	1/9/2006
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: TES
Specific Conductance	300	0.010		µmhos/cm	1	1/11/2006
EPA METHOD 160.1: TDS						Analyst: TES
Total Dissolved Solids	190	50		mg/L	1	1/12/2006

Qualifiers: • Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-02

Client Sample ID: N of MW #46
 Collection Date: 1/5/2006 2:30:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/9/2006 8:34:52 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/9/2006 8:34:52 PM
Surr: DNOP	120	58-140		%REC	1	1/9/2006 8:34:52 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/12/2006 9:16:30 PM
Surr: BFB	102	79.7-118		%REC	1	1/12/2006 9:16:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	1/12/2006 9:16:30 PM
Benzene	ND	0.50		µg/L	1	1/12/2006 9:16:30 PM
Toluene	ND	0.50		µg/L	1	1/12/2006 9:16:30 PM
Ethylbenzene	ND	0.50		µg/L	1	1/12/2006 9:16:30 PM
Xylenes, Total	ND	0.50		µg/L	1	1/12/2006 9:16:30 PM
EPA METHOD 300.0: ANIONS						Analyst: TES
Fluoride	0.10	0.10		mg/L	1	1/7/2006
Chloride	2.7	0.10		mg/L	1	1/7/2006
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	1/7/2006
Bromide	ND	0.50		mg/L	1	1/7/2006
Nitrogen, Nitrate (As N)	0.11	0.10		mg/L	1	1/7/2006
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	1/7/2006
Sulfate	62	0.50		mg/L	1	1/7/2006
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	1/9/2006
EPA METHOD 6010B: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	1/16/2006 9:52:41 AM
Barium	0.060	0.0020		mg/L	1	1/16/2006 9:52:41 AM
Cadmium	ND	0.0020		mg/L	1	1/16/2006 9:52:41 AM
Calcium	36	1.0		mg/L	1	1/16/2006 9:52:41 AM
Chromium	ND	0.0060		mg/L	1	1/16/2006 9:52:41 AM
Copper	ND	0.0060		mg/L	1	1/16/2006 9:52:41 AM
Iron	ND	0.020		mg/L	1	1/16/2006 9:52:41 AM
Lead	ND	0.0050		mg/L	1	1/16/2006 9:52:41 AM
Magnesium	6.2	1.0		mg/L	1	1/16/2006 9:52:41 AM
Manganese	0.021	0.0020		mg/L	1	1/16/2006 9:52:41 AM

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-02

Client Sample ID: N of MW #46
 Collection Date: 1/5/2006 2:30:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 6010B: DISSOLVED METALS Analyst: NMO

Potassium	2.0	1.0		mg/L	1	1/16/2006 9:52:41 AM
Selenium	ND	0.050		mg/L	1	1/16/2006 9:52:41 AM
Silver	ND	0.0050		mg/L	1	1/16/2006 9:52:41 AM
Sodium	20	1.0		mg/L	1	1/16/2006 9:52:41 AM
Uranium	ND	0.10		mg/L	1	1/16/2006 9:52:41 AM
Zinc	0.067	0.0050		mg/L	1	1/16/2006 9:52:41 AM

EPA 6010: TOTAL RECOVERABLE METALS Analyst: CMC

Arsenic	ND	0.020		mg/L	1	1/16/2006 2:45:23 PM
Barium	0.064	0.020		mg/L	1	1/16/2006 2:45:23 PM
Cadmium	ND	0.0020		mg/L	1	1/16/2006 2:45:23 PM
Chromium	ND	0.0060		mg/L	1	1/16/2006 2:45:23 PM
Lead	ND	0.0050		mg/L	1	1/16/2006 2:45:23 PM
Selenium	ND	0.050		mg/L	1	1/16/2006 2:45:23 PM
Silver	ND	0.0050		mg/L	1	1/16/2006 2:45:23 PM

EPA METHOD 8270C: SEMIVOLATILES Analyst: BL

Acenaphthene	ND	10		µg/L	1	2/16/2006
Acenaphthylene	ND	10		µg/L	1	2/16/2006
Anthracene	ND	10		µg/L	1	2/16/2006
Benz(a)anthracene	ND	15		µg/L	1	2/16/2006
Benzo(a)pyrene	ND	15		µg/L	1	2/16/2006
Benzo(b)fluoranthene	ND	15		µg/L	1	2/16/2006
Benzo(g,h,i)perylene	ND	10		µg/L	1	2/16/2006
Benzo(k)fluoranthene	ND	10		µg/L	1	2/16/2006
Benzoic acid	ND	50		µg/L	1	2/16/2006
Benzyl alcohol	ND	20		µg/L	1	2/16/2006
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	2/16/2006
Bis(2-chloroethyl)ether	ND	15		µg/L	1	2/16/2006
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	2/16/2006
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	2/16/2006
4-Bromophenyl phenyl ether	ND	10		µg/L	1	2/16/2006
Butyl benzyl phthalate	ND	15		µg/L	1	2/16/2006
4-Chloro-3-methylphenol	ND	20		µg/L	1	2/16/2006
4-Chloroaniline	ND	20		µg/L	1	2/16/2006
2-Chloronaphthalene	ND	10		µg/L	1	2/16/2006
2-Chlorophenol	ND	10		µg/L	1	2/16/2006
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	2/16/2006
Chrysene	ND	15		µg/L	1	2/16/2006

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-02

Client Sample ID: N of MW #46
 Collection Date: 1/5/2006 2:30:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Di-n-butyl phthalate	ND	10		µg/L	1	2/16/2006
Di-n-octyl phthalate	ND	15		µg/L	1	2/16/2006
Dibenz(a,h)anthracene	ND	10		µg/L	1	2/16/2006
Dibenzofuran	ND	10		µg/L	1	2/16/2006
1,2-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
1,3-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
1,4-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
3,3'-Dichlorobenzidine	ND	15		µg/L	1	2/16/2006
Diethyl phthalate	ND	10		µg/L	1	2/16/2006
Dimethyl phthalate	ND	10		µg/L	1	2/16/2006
2,4-Dichlorophenol	ND	10		µg/L	1	2/16/2006
2,4-Dimethylphenol	ND	10		µg/L	1	2/16/2006
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	2/16/2006
2,4-Dinitrophenol	ND	50		µg/L	1	2/16/2006
2,4-Dinitrotoluene	ND	50		µg/L	1	2/16/2006
2,6-Dinitrotoluene	ND	10		µg/L	1	2/16/2006
Fluoranthene	ND	10		µg/L	1	2/16/2006
Fluorene	ND	10		µg/L	1	2/16/2006
Hexachlorobenzene	ND	10		µg/L	1	2/16/2006
Hexachlorobutadiene	ND	10		µg/L	1	2/16/2006
Hexachloroethane	ND	10		µg/L	1	2/16/2006
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	2/16/2006
Isophorone	ND	10		µg/L	1	2/16/2006
2-Methylnaphthalene	ND	10		µg/L	1	2/16/2006
2-Methylphenol	ND	15		µg/L	1	2/16/2006
3+4-Methylphenol	ND	20		µg/L	1	2/16/2006
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	2/16/2006
N-Nitrosodiphenylamine	ND	10		µg/L	1	2/16/2006
Naphthalene	ND	10		µg/L	1	2/16/2006
2-Nitroaniline	ND	50		µg/L	1	2/16/2006
3-Nitroaniline	ND	50		µg/L	1	2/16/2006
4-Nitroaniline	ND	50		µg/L	1	2/16/2006
Nitrobenzene	ND	10		µg/L	1	2/16/2006
2-Nitrophenol	ND	15		µg/L	1	2/16/2006
4-Nitrophenol	ND	50		µg/L	1	2/16/2006
Pentachlorophenol	ND	50		µg/L	1	2/16/2006
Phenanthrene	ND	10		µg/L	1	2/16/2006
Phenol	ND	10		µg/L	1	2/16/2006
Pyrene	ND	15		µg/L	1	2/16/2006
1,2,4-Trichlorobenzene	ND	10		µg/L	1	2/16/2006

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-02

Client Sample ID: N of MW #46
 Collection Date: 1/5/2006 2:30:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
2,4,5-Trichlorophenol	ND	50		µg/L	1	2/16/2006
2,4,6-Trichlorophenol	ND	15		µg/L	1	2/16/2006
Surr: 2,4,6-Tribromophenol	70.0	16.6-150		%REC	1	2/16/2006
Surr: 2-Fluorobiphenyl	80.0	19.6-134		%REC	1	2/16/2006
Surr: 2-Fluorophenol	52.0	9.54-113		%REC	1	2/16/2006
Surr: 4-Terphenyl-d14	97.0	22.7-145		%REC	1	2/16/2006
Surr: Nitrobenzene-d5	73.0	14.6-134		%REC	1	2/16/2006
Surr: Phenol-d5	42.0	10.7-80.3		%REC	1	2/16/2006
EPA METHOD 310.1: ALKALINITY						Analyst: TES
Alkalinity, Total (As CaCO3)	83	2.0		mg/L CaCO3	1	1/9/2006
Carbonate	ND	2.0		mg/L CaCO3	1	1/9/2006
Bicarbonate	83	2.0		mg/L CaCO3	1	1/9/2006
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: TES
Specific Conductance	300	0.010		µmhos/cm	1	1/11/2006
EPA METHOD 160.1: TDS						Analyst: TES
Total Dissolved Solids	190	50		mg/L	1	1/12/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-03

Client Sample ID: River Downstream
 Collection Date: 1/5/2006 3:45:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						
						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/9/2006 9:07:54 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/9/2006 9:07:54 PM
Surr: DNOP	117	58-140		%REC	1	1/9/2006 9:07:54 PM
EPA METHOD 8015B: GASOLINE RANGE						
						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/12/2006 10:46:02 PM
Surr: BFB	102	79.7-118		%REC	1	1/12/2006 10:46:02 PM
EPA METHOD 8021B: VOLATILES						
						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	1/12/2006 10:46:02 PM
Benzene	ND	0.50		µg/L	1	1/12/2006 10:46:02 PM
Toluene	ND	0.50		µg/L	1	1/12/2006 10:46:02 PM
Ethylbenzene	ND	0.50		µg/L	1	1/12/2006 10:46:02 PM
Xylenes, Total	ND	0.50		µg/L	1	1/12/2006 10:46:02 PM
EPA METHOD 300.0: ANIONS						
						Analyst: TES
Fluoride	0.17	0.10		mg/L	1	1/7/2006
Chloride	3.9	0.10		mg/L	1	1/7/2006
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	1/7/2006
Bromide	ND	0.50		mg/L	1	1/7/2006
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	1/7/2006
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	1/7/2006
Sulfate	84	2.5		mg/L	5	1/9/2006
EPA METHOD 7470: MERCURY						
						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	1/9/2006
EPA METHOD 6010B: DISSOLVED METALS						
						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	1/16/2006 9:55:44 AM
Barium	0.058	0.0020		mg/L	1	1/16/2006 9:55:44 AM
Cadmium	ND	0.0020		mg/L	1	1/16/2006 9:55:44 AM
Calcium	40	1.0		mg/L	1	1/16/2006 9:55:44 AM
Chromium	ND	0.0060		mg/L	1	1/16/2006 9:55:44 AM
Copper	ND	0.0060		mg/L	1	1/16/2006 9:55:44 AM
Iron	0.030	0.020		mg/L	1	1/16/2006 9:55:44 AM
Lead	ND	0.0050		mg/L	1	1/16/2006 9:55:44 AM
Magnesium	6.7	1.0		mg/L	1	1/16/2006 9:55:44 AM
Manganese	0.070	0.0020		mg/L	1	1/16/2006 9:55:44 AM

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-03

Client Sample ID: River Downstream
 Collection Date: 1/5/2006 3:45:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: DISSOLVED METALS						Analyst: NMO
Potassium	2.0	1.0		mg/L	1	1/16/2006 9:55:44 AM
Selenium	ND	0.050		mg/L	1	1/16/2006 9:55:44 AM
Silver	ND	0.0050		mg/L	1	1/16/2006 9:55:44 AM
Sodium	27	1.0		mg/L	1	1/16/2006 9:55:44 AM
Uranium	ND	0.10		mg/L	1	1/16/2006 9:55:44 AM
Zinc	0.056	0.0050		mg/L	1	1/16/2006 9:55:44 AM

EPA 6010: TOTAL RECOVERABLE METALS						Analyst: CMC
Arsenic	ND	0.020		mg/L	1	1/16/2006 2:47:38 PM
Barium	0.063	0.020		mg/L	1	1/16/2006 2:47:38 PM
Cadmium	ND	0.0020		mg/L	1	1/16/2006 2:47:38 PM
Chromium	ND	0.0060		mg/L	1	1/16/2006 2:47:38 PM
Lead	ND	0.0050		mg/L	1	1/16/2006 2:47:38 PM
Selenium	ND	0.050		mg/L	1	1/16/2006 2:47:38 PM
Silver	ND	0.0050		mg/L	1	1/16/2006 2:47:38 PM

EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	10		µg/L	1	2/16/2006
Acenaphthylene	ND	10		µg/L	1	2/16/2006
Anthracene	ND	10		µg/L	1	2/16/2006
Benz(a)anthracene	ND	15		µg/L	1	2/16/2006
Benzo(a)pyrene	ND	15		µg/L	1	2/16/2006
Benzo(b)fluoranthene	ND	15		µg/L	1	2/16/2006
Benzo(g,h,i)perylene	ND	10		µg/L	1	2/16/2006
Benzo(k)fluoranthene	ND	10		µg/L	1	2/16/2006
Benzoic acid	ND	50		µg/L	1	2/16/2006
Benzyl alcohol	ND	20		µg/L	1	2/16/2006
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	2/16/2006
Bis(2-chloroethyl)ether	ND	15		µg/L	1	2/16/2006
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	2/16/2006
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	2/16/2006
4-Bromophenyl phenyl ether	ND	10		µg/L	1	2/16/2006
Butyl benzyl phthalate	ND	15		µg/L	1	2/16/2006
4-Chloro-3-methylphenol	ND	20		µg/L	1	2/16/2006
4-Chloroaniline	ND	20		µg/L	1	2/16/2006
2-Chloronaphthalene	ND	10		µg/L	1	2/16/2006
2-Chlorophenol	ND	10		µg/L	1	2/16/2006
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	2/16/2006
Chrysene	ND	15		µg/L	1	2/16/2006

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-03

Client Sample ID: River Downstream
 Collection Date: 1/5/2006 3:45:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Di-n-butyl phthalate	ND	10		µg/L	1	2/16/2006
Di-n-octyl phthalate	ND	15		µg/L	1	2/16/2006
Dibenz(a,h)anthracene	ND	10		µg/L	1	2/16/2006
Dibenzofuran	ND	10		µg/L	1	2/16/2006
1,2-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
1,3-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
1,4-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
3,3'-Dichlorobenzidine	ND	15		µg/L	1	2/16/2006
Diethyl phthalate	ND	10		µg/L	1	2/16/2006
Dimethyl phthalate	ND	10		µg/L	1	2/16/2006
2,4-Dichlorophenol	ND	10		µg/L	1	2/16/2006
2,4-Dimethylphenol	ND	10		µg/L	1	2/16/2006
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	2/16/2006
2,4-Dinitrophenol	ND	50		µg/L	1	2/16/2006
2,4-Dinitrotoluene	ND	50		µg/L	1	2/16/2006
2,6-Dinitrotoluene	ND	10		µg/L	1	2/16/2006
Fluoranthene	ND	10		µg/L	1	2/16/2006
Fluorene	ND	10		µg/L	1	2/16/2006
Hexachlorobenzene	ND	10		µg/L	1	2/16/2006
Hexachlorobutadiene	ND	10		µg/L	1	2/16/2006
Hexachloroethane	ND	10		µg/L	1	2/16/2006
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	2/16/2006
Isophorone	ND	10		µg/L	1	2/16/2006
2-Methylnaphthalene	ND	10		µg/L	1	2/16/2006
2-Methylphenol	ND	15		µg/L	1	2/16/2006
3+4-Methylphenol	ND	20		µg/L	1	2/16/2006
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	2/16/2006
N-Nitrosodiphenylamine	ND	10		µg/L	1	2/16/2006
Naphthalene	ND	10		µg/L	1	2/16/2006
2-Nitroaniline	ND	50		µg/L	1	2/16/2006
3-Nitroaniline	ND	50		µg/L	1	2/16/2006
4-Nitroaniline	ND	50		µg/L	1	2/16/2006
Nitrobenzene	ND	10		µg/L	1	2/16/2006
2-Nitrophenol	ND	15		µg/L	1	2/16/2006
4-Nitrophenol	ND	50		µg/L	1	2/16/2006
Pentachlorophenol	ND	50		µg/L	1	2/16/2006
Phenanthrene	ND	10		µg/L	1	2/16/2006
Phenol	ND	10		µg/L	1	2/16/2006
Pyrene	ND	15		µg/L	1	2/16/2006
1,2,4-Trichlorobenzene	ND	10		µg/L	1	2/16/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-03

Client Sample ID: River Downstream
 Collection Date: 1/5/2006 3:45:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
2,4,5-Trichlorophenol	ND	50		µg/L	1	2/16/2006
2,4,6-Trichlorophenol	ND	15		µg/L	1	2/16/2006
Surr: 2,4,6-Tribromophenol	61.0	16.6-150		%REC	1	2/16/2006
Surr: 2-Fluorobiphenyl	65.0	19.6-134		%REC	1	2/16/2006
Surr: 2-Fluorophenol	46.0	9.54-113		%REC	1	2/16/2006
Surr: 4-Terphenyl-d14	83.0	22.7-145		%REC	1	2/16/2006
Surr: Nitrobenzene-d5	61.0	14.6-134		%REC	1	2/16/2006
Surr: Phenol-d5	36.0	10.7-80.3		%REC	1	2/16/2006
EPA METHOD 310.1: ALKALINITY						Analyst: TES
Alkalinity, Total (As CaCO3)	86	2.0		mg/L CaCO3	1	1/9/2006
Carbonate	ND	2.0		mg/L CaCO3	1	1/9/2006
Bicarbonate	86	2.0		mg/L CaCO3	1	1/9/2006
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: TES
Specific Conductance	370	0.010		µmhos/cm	1	1/11/2006
EPA METHOD 160.1: TDS						Analyst: TES
Total Dissolved Solids	240	50		mg/L	1	1/12/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-04

Client Sample ID: River Upstream
 Collection Date: 1/5/2006 3:15:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/9/2006 9:40:55 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/9/2006 9:40:55 PM
Surr: DNOP	115	58-140		%REC	1	1/9/2006 9:40:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/12/2006 11:15:50 PM
Surr: BFB	102	79.7-118		%REC	1	1/12/2006 11:15:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	1/12/2006 11:15:50 PM
Benzene	ND	0.50		µg/L	1	1/12/2006 11:15:50 PM
Toluene	ND	0.50		µg/L	1	1/12/2006 11:15:50 PM
Ethylbenzene	ND	0.50		µg/L	1	1/12/2006 11:15:50 PM
Xylenes, Total	ND	0.50		µg/L	1	1/12/2006 11:15:50 PM
EPA METHOD 300.0: ANIONS						Analyst: TES
Fluoride	0.11	0.10		mg/L	1	1/7/2006
Chloride	2.4	0.10		mg/L	1	1/7/2006
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	1/7/2006
Bromide	ND	0.50		mg/L	1	1/7/2006
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	1/7/2006
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	1/7/2006
Sulfate	58	0.50		mg/L	1	1/7/2006
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	1/9/2006
EPA METHOD 6010B: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	1/16/2006 9:58:47 AM
Barium	0.061	0.0020		mg/L	1	1/16/2006 9:58:47 AM
Cadmium	ND	0.0020		mg/L	1	1/16/2006 9:58:47 AM
Calcium	35	1.0		mg/L	1	1/16/2006 9:58:47 AM
Chromium	ND	0.0060		mg/L	1	1/16/2006 9:58:47 AM
Copper	ND	0.0060		mg/L	1	1/16/2006 9:58:47 AM
Iron	ND	0.020		mg/L	1	1/16/2006 9:58:47 AM
Lead	ND	0.0050		mg/L	1	1/16/2006 9:58:47 AM
Magnesium	6.1	1.0		mg/L	1	1/16/2006 9:58:47 AM
Manganese	0.022	0.0020		mg/L	1	1/16/2006 9:58:47 AM

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-04

Client Sample ID: River Upstream
 Collection Date: 1/5/2006 3:15:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: DISSOLVED METALS						Analyst: NMO
Potassium	1.9	1.0		mg/L	1	1/16/2006 9:58:47 AM
Selenium	ND	0.050		mg/L	1	1/16/2006 9:58:47 AM
Silver	ND	0.0050		mg/L	1	1/16/2006 9:58:47 AM
Sodium	20	1.0		mg/L	1	1/16/2006 9:58:47 AM
Uranium	ND	0.10		mg/L	1	1/16/2006 9:58:47 AM
Zinc	0.12	0.0050		mg/L	1	1/16/2006 9:58:47 AM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: CMC
Arsenic	ND	0.020		mg/L	1	1/16/2006 2:49:47 PM
Barium	0.063	0.020		mg/L	1	1/16/2006 2:49:47 PM
Cadmium	ND	0.0020		mg/L	1	1/16/2006 2:49:47 PM
Chromium	ND	0.0060		mg/L	1	1/16/2006 2:49:47 PM
Lead	ND	0.0050		mg/L	1	1/16/2006 2:49:47 PM
Selenium	ND	0.050		mg/L	1	1/16/2006 2:49:47 PM
Silver	ND	0.0050		mg/L	1	1/16/2006 2:49:47 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	10		µg/L	1	2/16/2006
Acenaphthylene	ND	10		µg/L	1	2/16/2006
Anthracene	ND	10		µg/L	1	2/16/2006
Benz(a)anthracene	ND	15		µg/L	1	2/16/2006
Benzo(a)pyrene	ND	15		µg/L	1	2/16/2006
Benzo(b)fluoranthene	ND	15		µg/L	1	2/16/2006
Benzo(g,h,i)perylene	ND	10		µg/L	1	2/16/2006
Benzo(k)fluoranthene	ND	10		µg/L	1	2/16/2006
Benzoic acid	ND	100		µg/L	1	2/16/2006
Benzyl alcohol	ND	20		µg/L	1	2/16/2006
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	2/16/2006
Bis(2-chloroethyl)ether	ND	15		µg/L	1	2/16/2006
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	2/16/2006
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	2/16/2006
4-Bromophenyl phenyl ether	ND	10		µg/L	1	2/16/2006
Butyl benzyl phthalate	ND	15		µg/L	1	2/16/2006
4-Chloro-3-methylphenol	ND	20		µg/L	1	2/16/2006
4-Chloroaniline	ND	20		µg/L	1	2/16/2006
2-Chloronaphthalene	ND	10		µg/L	1	2/16/2006
2-Chlorophenol	ND	10		µg/L	1	2/16/2006
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	2/16/2006
Chrysene	ND	15		µg/L	1	2/16/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-04

Client Sample ID: River Upstream
 Collection Date: 1/5/2006 3:15:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Di-n-butyl phthalate	ND	10		µg/L	1	2/16/2006
Di-n-octyl phthalate	ND	15		µg/L	1	2/16/2006
Dibenz(a,h)anthracene	ND	10		µg/L	1	2/16/2006
Dibenzofuran	ND	10		µg/L	1	2/16/2006
1,2-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
1,3-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
1,4-Dichlorobenzene	ND	10		µg/L	1	2/16/2006
3,3'-Dichlorobenzidine	ND	15		µg/L	1	2/16/2006
Diethyl phthalate	ND	10		µg/L	1	2/16/2006
Dimethyl phthalate	ND	10		µg/L	1	2/16/2006
2,4-Dichlorophenol	ND	10		µg/L	1	2/16/2006
2,4-Dimethylphenol	ND	10		µg/L	1	2/16/2006
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	2/16/2006
2,4-Dinitrophenol	ND	50		µg/L	1	2/16/2006
2,4-Dinitrotoluene	ND	50		µg/L	1	2/16/2006
2,6-Dinitrotoluene	ND	10		µg/L	1	2/16/2006
Fluoranthene	ND	10		µg/L	1	2/16/2006
Fluorene	ND	10		µg/L	1	2/16/2006
Hexachlorobenzene	ND	10		µg/L	1	2/16/2006
Hexachlorobutadiene	ND	10		µg/L	1	2/16/2006
Hexachloroethane	ND	10		µg/L	1	2/16/2006
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	2/16/2006
Isophorone	ND	10		µg/L	1	2/16/2006
2-Methylnaphthalene	ND	10		µg/L	1	2/16/2006
2-Methylphenol	ND	15		µg/L	1	2/16/2006
3+4-Methylphenol	ND	50		µg/L	1	2/16/2006
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	2/16/2006
N-Nitrosodiphenylamine	ND	10		µg/L	1	2/16/2006
Naphthalene	ND	10		µg/L	1	2/16/2006
2-Nitroaniline	ND	50		µg/L	1	2/16/2006
3-Nitroaniline	ND	50		µg/L	1	2/16/2006
4-Nitroaniline	ND	50		µg/L	1	2/16/2006
Nitrobenzene	ND	10		µg/L	1	2/16/2006
2-Nitrophenol	ND	15		µg/L	1	2/16/2006
4-Nitrophenol	ND	50		µg/L	1	2/16/2006
Pentachlorophenol	ND	50		µg/L	1	2/16/2006
Phenanthrene	ND	10		µg/L	1	2/16/2006
Phenol	ND	10		µg/L	1	2/16/2006
Pyrene	ND	15		µg/L	1	2/16/2006
1,2,4-Trichlorobenzene	ND	10		µg/L	1	2/16/2006

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-04

Client Sample ID: River Upstream
 Collection Date: 1/5/2006 3:15:00 PM
 Date Received: 1/6/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
2,4,5-Trichlorophenol	ND	50		µg/L	1	2/16/2006
2,4,6-Trichlorophenol	ND	15		µg/L	1	2/16/2006
Surr: 2,4,6-Tribromophenol	63.0	16.6-150		%REC	1	2/16/2006
Surr: 2-Fluorobiphenyl	70.0	19.6-134		%REC	1	2/16/2006
Surr: 2-Fluorophenol	52.0	9.54-113		%REC	1	2/16/2006
Surr: 4-Terphenyl-d14	83.0	22.7-145		%REC	1	2/16/2006
Surr: Nitrobenzene-d5	66.0	14.6-134		%REC	1	2/16/2006
Surr: Phenol-d5	39.0	10.7-80.3		%REC	1	2/16/2006
EPA METHOD 310.1: ALKALINITY						Analyst: TES
Alkalinity, Total (As CaCO3)	82	2.0		mg/L CaCO3	1	1/9/2006
Carbonate	ND	2.0		mg/L CaCO3	1	1/9/2006
Bicarbonate	82	2.0		mg/L CaCO3	1	1/9/2006
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: TES
Specific Conductance	290	0.010		µmhos/cm	1	1/11/2006
EPA METHOD 160.1: TDS						Analyst: TES
Total Dissolved Solids	180	50		mg/L	1	1/12/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

CLIENT: San Juan Refining
 Lab Order: 0601064
 Project: River Sampling 1st Qtr 2006
 Lab ID: 0601064-05

Client Sample ID: Trip Blank
 Collection Date:
 Date Received: 1/6/2006
 Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/12/2006 11:45:43 PM
Surr: BFB	102	79.7-118		%REC	1	1/12/2006 11:45:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	1/12/2006 11:45:43 PM
Benzene	ND	1.0		µg/L	1	1/12/2006 11:45:43 PM
Toluene	ND	1.0		µg/L	1	1/12/2006 11:45:43 PM
Ethylbenzene	ND	1.0		µg/L	1	1/12/2006 11:45:43 PM
Xylenes, Total	ND	3.0		µg/L	1	1/12/2006 11:45:43 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Feb-06

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining

Work Order: 0601064

Project: River Sampling 1st Qtr 2006

TestCode: 300_W

Sample ID: MBLK	SampType: MBLK	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 17841						
Client ID: ZZZZ	Batch ID: R17841	TestNo: E300		Analysis Date: 1/6/2006	SeqNo: 438674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	ND	0.10									
Chloride	ND	0.10									
Nitrogen, Nitrite (As N)	ND	0.10									
Bromide	ND	0.50									
Nitrogen, Nitrate (As N)	ND	0.10									
Phosphorus, Orthophosphate (As P)	ND	0.50									
Sulfate	ND	0.50									

Sample ID: MBLK	SampType: MBLK	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 17866						
Client ID: ZZZZ	Batch ID: R17866	TestNo: E300		Analysis Date: 1/9/2006	SeqNo: 439207						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	ND	0.10									
Chloride	ND	0.10									
Nitrogen, Nitrite (As N)	ND	0.10									
Bromide	ND	0.50									
Nitrogen, Nitrate (As N)	ND	0.10									
Phosphorus, Orthophosphate (As P)	ND	0.50									
Sulfate	ND	0.50									

Sample ID: LCS-ST300-05023	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 17841						
Client ID: ZZZZ	Batch ID: R17841	TestNo: E300		Analysis Date: 1/6/2006	SeqNo: 438675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	0.4813	0.10	0.5	0	96.3	90	110				S
Chloride	4.435	0.10	5	0	88.7	90	110				S
Nitrogen, Nitrite (As N)	0.8891	0.10	1	0	88.9	90	110				
Bromide	2.394	0.50	2.5	0	95.8	90	110				
Nitrogen, Nitrate (As N)	2.266	0.10	2.5	0	90.6	90	110				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analytic detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

ANALYTICAL QC SUMMARY REPORT
 TestCode: 300_W

Sample ID: LCS-ST300-05023	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 17841						
Client ID: ZZZZZ	Batch ID: R17841	TestNo: E300		Analysis Date: 1/6/2006	SeqNo: 438675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phosphorus, Orthophosphate (As P)	4.700	0.50	5	0	94.0	90	110				
Sulfate	9.384	0.50	10	0	93.8	90	110				

Sample ID: LCS-ST300-05023	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 17866						
Client ID: ZZZZZ	Batch ID: R17866	TestNo: E300		Analysis Date: 1/9/2006	SeqNo: 439208						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	0.4877	0.10	0.5	0	97.5	90	110				
Chloride	4.537	0.10	5	0	90.7	90	110				
Nitrogen, Nitrite (As N)	0.9265	0.10	1	0	92.6	90	110				
Bromide	2.343	0.50	2.5	0	93.7	90	110				
Nitrogen, Nitrate (As N)	2.283	0.10	2.5	0	91.3	90	110				
Phosphorus, Orthophosphate (As P)	4.681	0.50	5	0	93.6	90	110				
Sulfate	9.534	0.50	10	0	95.3	90	110				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

TestCode: 310.1_W

Sample ID: MBLK	SampType: MBLK	TestCode: 310.1_W	Units: mg/L CaCO3	Prep Date:	RunNo: 17847						
Client ID: ZZZZ	Batch ID: R17847	TestNo: E310.1		Analysis Date: 1/9/2006	SeqNo: 438805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3) ND 2.0
 Carbonate ND 2.0
 Bicarbonate ND 2.0

Sample ID: MBLK	SampType: MBLK	TestCode: 310.1_W	Units: mg/L CaCO3	Prep Date:	RunNo: 17847						
Client ID: ZZZZ	Batch ID: R17847	TestNo: E310.1		Analysis Date: 1/9/2006	SeqNo: 438812						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3) ND 2.0
 Carbonate ND 2.0
 Bicarbonate ND 2.0

Quantifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID: MB-9535	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17852						
Client ID: ZZZZ	Batch ID: 9535	TestNo: SW8015		Analysis Date: 1/9/2006	SeqNo: 438884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) ND 1.0
 Motor Oil Range Organics (MRO) ND 5.0

Sample ID: LCS-9535	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17852						
Client ID: ZZZZ	Batch ID: 9535	TestNo: SW8015		Analysis Date: 1/9/2006	SeqNo: 438885						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) 5.740 1.0 5 0 115 81.2 149

Sample ID: LCSD-9535	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17852						
Client ID: ZZZZ	Batch ID: 9535	TestNo: SW8015		Analysis Date: 1/9/2006	SeqNo: 438886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) 5.962 1.0 5 0 119 81.2 149 5.74 3.80 23

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0601064

Project: River Sampling 1st Qtr 2006

TestCode: 8015GRO_W

Sample ID: Reagent Blank 5ml	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 17890						
Client ID: ZZZZ	Batch ID: R17890	TestNo: SW8015		Analysis Date: 1/12/2006	SeqNo: 439931						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050									

Sample ID: GRO lcs 2.5ug	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 17890						
Client ID: ZZZZ	Batch ID: R17890	TestNo: SW8015		Analysis Date: 1/13/2006	SeqNo: 439932						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4586	0.050	0.5	0	91.7	82.6	114				

Sample ID: 0601064-02a ms	SampType: MS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 17890						
Client ID: N of MW #46	Batch ID: R17890	TestNo: SW8015		Analysis Date: 1/12/2006	SeqNo: 439951						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4594	0.050	0.5	0	91.9	82.6	114				

Sample ID: 0601064-02a msd	SampType: MSD	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 17890						
Client ID: N of MW #46	Batch ID: R17890	TestNo: SW8015		Analysis Date: 1/12/2006	SeqNo: 439952						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4632	0.050	0.5	0	92.6	82.6	114	0.4594	0.824	8.39	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

TestCode: 8021BTEX_W

Sample ID: Reagent Blank 5ml	SampType: MBLK	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 17890						
Client ID: ZZZZ	Batch ID: R17890	TestNo: SW8021		Analysis Date: 1/12/2006	SeqNo: 439913						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	3.0									

Sample ID: BTEX Ics 100ng	SampType: LCS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 17890						
Client ID: ZZZZ	Batch ID: R17890	TestNo: SW8021		Analysis Date: 1/12/2006	SeqNo: 440002						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	20.00	2.5	20	0	100	64.5	133				
Benzene	18.85	1.0	20	0	94.2	88.5	114				
Toluene	19.12	1.0	20	0	95.6	87.2	114				
Ethylbenzene	19.76	1.0	20	0	98.8	88.6	113				
Xylenes, Total	39.56	3.0	40	0	98.9	83.3	114				

Sample ID: 0601064-01a ms	SampType: MS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 17890						
Client ID: N of MW #45	Batch ID: R17890	TestNo: SW8021		Analysis Date: 1/12/2006	SeqNo: 439929						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	20.07	2.5	20	0	100	64.5	133				
Benzene	17.58	1.0	20	0	87.9	84.2	114				
Toluene	18.56	1.0	20	0	92.8	87.2	114				
Ethylbenzene	18.64	1.0	20	0	93.2	88.6	113				
Xylenes, Total	38.83	3.0	40	0	97.1	83.3	114				

Sample ID: 0601064-01a msd	SampType: MSD	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 17890						
Client ID: N of MW #45	Batch ID: R17890	TestNo: SW8021		Analysis Date: 1/12/2006	SeqNo: 439930						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

ANALYTICAL QC SUMMARY REPORT
 TestCode: 8021BTEX_W

Sample ID: 0601064-01a msd SampType: MSD TestCode: 8021BTEX_W Units: µg/L RunNo: 17890
 Client ID: N of MW #45 Batch ID: R17890 TestNo: SW8021 Analysis Date: 1/12/2006 SeqNo: 439930

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.41	2.5	20	0	97.1	64.5	133	20.07	3.33	28	
Benzene	16.95	1.0	20	0	84.7	84.2	114	17.58	3.64	27	
Toluene	18.24	1.0	20	0	91.2	87.2	114	18.56	1.74	19	
Ethylbenzene	18.72	1.0	20	0	93.6	88.6	113	18.64	0.412	10	
Xylenes, Total	38.20	3.0	40	0	95.5	83.3	114	38.83	1.64	13	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

TestCode: 8270_W

Sample ID: MB-9552	SampType: MBLK	TestCode: 8270_W	Units: µg/L	Prep Date: 1/10/2006	RunNo: 18276						
Client ID: ZZZZ	Batch ID: 9552	TestNo: SW8270C	(SW3510)	Analysis Date: 2/16/2006	SeqNo: 450546						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Anthracene	ND	10									
Benz(a)anthracene	ND	15									
Benz(a)pyrene	ND	15									
Benzo(b)fluoranthene	ND	15									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Benzonic acid	ND	50									
Benzyl alcohol	ND	20									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	15									
Bis(2-chloroisopropyl)ether	ND	15									
Bis(2-ethylhexyl)phthalate	ND	15									
4-Bromophenyl phenyl ether	ND	10									
Butyl benzyl phthalate	ND	15									
4-Chloro-3-methylphenol	ND	20									
4-Chloroaniline	ND	20									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
4-Chlorophenyl phenyl ether	ND	15									
Chrysene	ND	15									
Di-n-butyl phthalate	ND	10									
Di-n-octyl phthalate	ND	15									
Dibenz(a,h)anthracene	ND	10									
Dibenzofuran	ND	10									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
3,3'-Dichlorobenzidine	ND	15									
Diethyl phthalate	ND	10									

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
Work Order: 0601064
Project: River Sampling 1st Qtr 2006

TestCode: 8270_W

Sample ID: MB-9552	SampType: MBLK	TestCode: 8270_W	Units: µg/L
Client ID: ZZZZ	Batch ID: 9552	TestNo: SW8270C	(SW3510)
Prep Date: 1/10/2006		RunNo: 18276	
Analysis Date: 2/16/2006		SeqNo: 450546	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dimethyl phthalate	ND	10									
2,4-Dichlorophenol	ND	10									
2,4-Dimethylphenol	ND	10									
4,6-Dinitro-2-methylphenol	ND	50									
2,4-Dinitrophenol	ND	50									
2,4-Dinitrotoluene	ND	50									
2,6-Dinitrotoluene	ND	10									
Fluoranthene	ND	10									
Fluorene	ND	10									
Hexachlorobenzene	ND	10									
Hexachlorobutadiene	ND	10									
Hexachloroethane	ND	10									
Indeno(1,2,3-cd)pyrene	ND	10									
Isophorone	ND	10									
2-Methylnaphthalene	ND	10									
2-Methylphenol	ND	15									
3+4-Methylphenol	ND	20									
N-Nitrosodi-n-propylamine	ND	10									
N-Nitrosodiphenylamine	ND	10									
Naphthalene	ND	10									
2-Nitroaniline	ND	50									
3-Nitroaniline	ND	50									
4-Nitroaniline	ND	50									
Nitrobenzene	ND	10									
2-Nitrophenol	ND	15									
4-Nitrophenol	ND	50									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	15									
1,2,4-Trichlorobenzene	ND	10									

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

TestCode: 8270_W

Sample ID: MB-9552	SampType: MBLK	TestCode: 8270_W	Units: µg/L	Prep Date: 1/10/2006	RunNo: 18276						
Client ID: ZZZZZ	Batch ID: 9552	TestNo: SW8270C	(SW3510)	Analysis Date: 2/16/2006	SeqNo: 450546						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2,4,5-Trichlorophenol	ND	50									
2,4,6-Trichlorophenol	ND	15									

Sample ID: LCS-9552	SampType: LCS	TestCode: 8270_W	Units: µg/L	Prep Date: 1/10/2006	RunNo: 18276						
Client ID: ZZZZZ	Batch ID: 9552	TestNo: SW8270C	(SW3510)	Analysis Date: 2/16/2006	SeqNo: 450547						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	81.00	10	100	0	81.0	11	123				
4-Chloro-3-methylphenol	160.0	20	200	0	80.0	15.4	119				
2-Chlorophenol	130.0	10	200	0	65.0	12.2	122				
1,4-Dichlorobenzene	60.00	10	100	0	60.0	16.9	100				
2,4-Dinitrotoluene	85.00	10	100	0	85.0	13	138				
N-Nitrosodi-n-propylamine	73.00	10	100	0	73.0	9.93	122				
4-Nitrophenol	84.00	50	200	0	42.0	-20.5	87.4				
Pentachlorophenol	140.0	50	200	0	70.0	-0.355	114				
Phenol	81.00	10	200	0	40.5	7.53	73.1				
Pyrene	95.00	15	100	0	95.0	12.6	140				
1,2,4-Trichlorobenzene	66.00	10	100	0	66.0	17.4	98.7				

Sample ID: LCSD-9552	SampType: LCSD	TestCode: 8270_W	Units: µg/L	Prep Date: 1/10/2006	RunNo: 18276						
Client ID: ZZZZZ	Batch ID: 9552	TestNo: SW8270C	(SW3510)	Analysis Date: 2/16/2006	SeqNo: 450548						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	76.00	10	100	0	76.0	11	123	81	6.37	30.5	
4-Chloro-3-methylphenol	140.0	20	200	0	70.0	15.4	119	160	13.3	28.6	
2-Chlorophenol	140.0	10	200	0	70.0	12.2	122	130	7.41	107	
1,4-Dichlorobenzene	63.00	10	100	0	63.0	16.9	100	60	4.88	62.1	
2,4-Dinitrotoluene	76.00	10	100	0	76.0	13	138	85	11.2	14.7	
N-Nitrosodi-n-propylamine	72.00	10	100	0	72.0	9.93	122	73	1.38	30.3	
4-Nitrophenol	75.00	50	200	0	37.5	12.5	87.4	84	11.3	36.3	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W

Sample ID: LCSD-9552	Batch ID: 9552	SampType: LCSD	TestCode: 8270_W	Units: µg/L	Prep Date: 1/10/2006	RunNo: 18276					
Client ID: ZZZZZ			TestNo: SW8270C	(SW3510)	Analysis Date: 2/16/2006	SeqNo: 450548					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	140.0	50	200	0	70.0	3.55	114	140	0	49	
Phenol	79.00	10	200	0	39.5	7.53	73.1	81	2.50	52.4	
Pyrene	85.00	15	100	0	85.0	12.6	140	95	11.1	16.3	
1,2,4-Trichlorobenzene	68.00	10	100	0	68.0	17.4	98.7	66	2.99	36.4	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
Work Order: 0601064
Project: River Sampling 1st Qtr 2006

TestCode: HG_CTW

Sample ID: MB-9544	SampType: MBLK	TestCode: HG_CTW	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17848
Client ID: ZZZZ	Batch ID: 9544	TestNo: SW7470	(SW7470)	Analysis Date: 1/9/2006	SeqNo: 438823
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	ND	0.00020	0	0	85.1
				LowLimit	HighLimit
				RPD Ref Val	RPD Limit
				Qual	Qual

Sample ID: LCS-9544	SampType: LCS	TestCode: HG_CTW	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17848
Client ID: ZZZZ	Batch ID: 9544	TestNo: SW7470	(SW7470)	Analysis Date: 1/9/2006	SeqNo: 438824
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.004253	0.00020	0.005	0	85.1
				LowLimit	HighLimit
				RPD Ref Val	RPD Limit
				Qual	Qual

Sample ID: LCSD-9544	SampType: LCSD	TestCode: HG_CTW	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17848
Client ID: ZZZZ	Batch ID: 9544	TestNo: SW7470	(SW7470)	Analysis Date: 1/9/2006	SeqNo: 438848
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.004311	0.00020	0.005	0	86.2
				LowLimit	HighLimit
				RPD Ref Val	RPD Limit
				Qual	Qual

Sample ID: 0601064-04D MS	SampType: MS	TestCode: HG_CTW	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17848
Client ID: River Upstream	Batch ID: 9544	TestNo: SW7470	(SW7470)	Analysis Date: 1/9/2006	SeqNo: 438842
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.004008	0.00020	0.005	0	80.2
				LowLimit	HighLimit
				RPD Ref Val	RPD Limit
				Qual	Qual

Sample ID: 0601064-04D MSD	SampType: MSD	TestCode: HG_CTW	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17848
Client ID: River Upstream	Batch ID: 9544	TestNo: SW7470	(SW7470)	Analysis Date: 1/9/2006	SeqNo: 438843
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.004173	0.00020	0.005	0	83.5
				LowLimit	HighLimit
				RPD Ref Val	RPD Limit
				Qual	Qual

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
Work Order: 0601064
Project: River Sampling 1st Qtr 2006

TestCode: METALS_DISS

Sample ID: MB	SampType: MBLK	TestCode: METALS_DIS	Units: mg/L	RunNo: 17918							
Client ID: ZZZZZ	Batch ID: R17918	TestNo: SW6010A		SeqNo: 440450							
				Prep Date:							
				Analysis Date: 1/16/2006							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Calcium	ND	1.0									
Chromium	ND	0.0060									
Copper	ND	0.0060									
Iron	ND	0.020									
Lead	ND	0.0050									
Magnesium	ND	1.0									
Manganese	ND	0.0020									
Potassium	ND	1.0									
Selenium	ND	0.020									
Silver	ND	0.0050									
Sodium	ND	1.0									
Uranium	ND	0.10									
Zinc	ND	0.050									

Sample ID: LCS	SampType: LCS	TestCode: METALS_DIS	Units: mg/L	RunNo: 17918							
Client ID: ZZZZZ	Batch ID: R17918	TestNo: SW6010A		SeqNo: 440451							
				Prep Date:							
				Analysis Date: 1/16/2006							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.5073	0.020	0.5	0	101	80	120				
Barium	0.4828	0.020	0.5	0	96.6	80	120				
Cadmium	0.4898	0.0020	0.5	0	98.0	80	120				
Calcium	52.54	1.0	50.5	0	104	80	120				
Chromium	0.4951	0.0060	0.5	0	99.0	80	120				
Copper	0.4786	0.0060	0.5	0	95.7	80	120				
Iron	0.4537	0.020	0.5	0	90.7	80	120				
Lead	0.4843	0.0050	0.5	0	96.9	80	120				
Magnesium	51.97	1.0	50.5	0	103	80	120				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

TestCode: METALS_DISS

Sample ID: LCS	SampType: LCS	TestCode: METALS_DIS	Units: mg/L	Prep Date:	RunNo: 17918						
Client ID: ZZZZZ	Batch ID: R17918	TestNo: SW6010A		Analysis Date: 1/16/2006	SeqNo: 440451						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.4647	0.0020	0.5	0	92.9	80	120				
Potassium	55.25	1.0	55	0	100	80	120				
Selenium	0.4899	0.020	0.5	0	98.0	80	120				
Silver	0.4934	0.0050	0.5	0	98.7	80	120				
Sodium	54.67	1.0	50.5	0	108	80	120				
Uranium	2.408	0.10	2.5	0	96.3	80	120				
Zinc	0.4904	0.050	0.5	0	98.1	80	120				

Sample ID: LCSD	SampType: LCSD	TestCode: METALS_DIS	Units: mg/L	Prep Date:	RunNo: 17918						
Client ID: ZZZZZ	Batch ID: R17918	TestNo: SW6010A		Analysis Date: 1/16/2006	SeqNo: 440452						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4999	0.020	0.5	0	100	80	120	0.5073	1.47	20	
Barium	0.4844	0.020	0.5	0	96.9	80	120	0.4828	0.335	20	
Cadmium	0.4857	0.0020	0.5	0	97.1	80	120	0.4898	0.857	20	
Calcium	52.35	1.0	50.5	0	104	80	120	52.54	0.358	20	
Chromium	0.4950	0.0060	0.5	0	99.0	80	120	0.4951	0.0310	20	
Copper	0.4807	0.0060	0.5	0	96.1	80	120	0.4786	0.433	20	
Iron	0.4533	0.020	0.5	0	90.7	80	120	0.4537	0.0691	20	
Lead	0.4844	0.0050	0.5	0	96.9	80	120	0.4843	0.00570	20	
Magnesium	51.74	1.0	50.5	0	102	80	120	51.97	0.449	20	
Manganese	0.4664	0.0020	0.5	0	93.3	80	120	0.4647	0.360	20	
Potassium	55.04	1.0	55	0	100	80	120	55.25	0.382	20	
Selenium	0.4915	0.020	0.5	0	98.3	80	120	0.4899	0.340	20	
Silver	0.4947	0.0050	0.5	0	98.9	80	120	0.4934	0.255	20	
Sodium	54.48	1.0	50.5	0	108	80	120	54.67	0.350	20	
Uranium	2.399	0.10	2.5	0	96.0	80	120	2.408	0.393	20	
Zinc	0.4950	0.050	0.5	0	99.0	80	120	0.4904	0.921	20	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
Work Order: 0601064
Project: River Sampling 1st Qtr 2006

TestCode: METALS_TOTAL

Sample ID: MB-9536	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17885						
Client ID: ZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/12/2006	SeqNo: 439739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
Lead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050									

Sample ID: MB-9536	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17932						
Client ID: ZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/16/2006	SeqNo: 440773						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
Lead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050									

Sample ID: LCS-9536	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17885						
Client ID: ZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/12/2006	SeqNo: 439740						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.4894	0.0050	0.5	0	97.9	80	120				
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Sample ID: LCS-9536	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17932						
Client ID: ZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/16/2006	SeqNo: 440774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: San Juan Refining
 Work Order: 0601064
 Project: River Sampling 1st Qtr 2006

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: LCS-9536 SampType: LCS TestCode: METALS_TO Units: mg/L Prep Date: 1/9/2006 RunNo: 17932
 Client ID: ZZZZZ Batch ID: 9536 TestNo: SW6010A Analysis Date: 1/16/2006 SeqNo: 440774

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4853	0.020	0.5	0	97.1	80	120				
Barium	0.4613	0.020	0.5	0	92.3	80	120				
Cadmium	0.4680	0.020	0.5	0	93.6	80	120				
Chromium	0.4714	0.0060	0.5	0	94.3	80	120				
Lead	0.4601	0.0050	0.5	0	92.0	80	120				
Selenium	0.4684	0.050	0.5	0	93.7	80	120				
Silver	0.4791	0.0050	0.5	0.001109	95.6	80	120				

Sample ID: LCSD-9536 SampType: LCSD TestCode: METALS_TO Units: mg/L Prep Date: 1/9/2006 RunNo: 17885
 Client ID: ZZZZZ Batch ID: 9536 TestNo: SW6010A Analysis Date: 1/12/2006 SeqNo: 439741

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.4769	0.0050	0.5	0	95.4	80	120	0.4894	2.60	20	

Sample ID: LCSD-9536 SampType: LCSD TestCode: METALS_TO Units: mg/L Prep Date: 1/9/2006 RunNo: 17932
 Client ID: ZZZZZ Batch ID: 9536 TestNo: SW6010A Analysis Date: 1/16/2006 SeqNo: 440775

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4891	0.020	0.5	0	97.8	80	120	0.4853	0.775	20	
Barium	0.4627	0.020	0.5	0	92.5	80	120	0.4613	0.308	20	
Cadmium	0.4676	0.0020	0.5	0	93.5	80	120	0.468	0.0760	20	
Chromium	0.4741	0.0060	0.5	0	94.8	80	120	0.4714	0.582	20	
Lead	0.4560	0.0050	0.5	0	91.2	80	120	0.4601	0.907	20	
Selenium	0.4633	0.050	0.5	0	92.7	80	120	0.4684	1.11	20	
Silver	0.4795	0.0050	0.5	0.001109	95.7	80	120	0.4791	0.0776	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
Work Order: 0601064
Project: River Sampling 1st Qtr 2006

TestCode: TDS_W

Sample ID: MB-9542	SampType: MBLK	TestCode: TDS_W	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17898
Client ID: ZZZZZ	Batch ID: 9542	TestNo: E160.1		Analysis Date: 1/12/2006	SeqNo: 439871
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	50			%RPD
Total Dissolved Solids					

Sample ID: LCS-9542	SampType: LCS	TestCode: TDS_W	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17898
Client ID: ZZZZZ	Batch ID: 9542	TestNo: E160.1		Analysis Date: 1/12/2006	SeqNo: 439872
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	1004	50	1000	0	100
Total Dissolved Solids					

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

1/6/2006

Work Order Number 0601064

Received by AT

Checklist completed by

[Handwritten Signature] *1/6/06*
Signature Date

Matrix

Carrier name Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? **1°** *4° C ± 2 Acceptable*
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: SAN JUAN PEBUNIC

Address: #50 Rd 4990

Bloomfield, NM

87413

Phone #: 505-632-4161

Fax #: 505-632-3911

QA/QC Package:

Std Level 4

Other:

Project Name:

River Sample 1st Qtr-2006

Project #:

Project Manager:

Cindy Hurtado

Sampler:

Sample Temperature:

Number/Volume	Preservative		HEAL No.
	HgCl ₂	HNO ₃	
<u>2-VOA</u>	<u>X</u>		<u>060104-1</u>
<u>3-VOA</u>	<u>X</u>		
<u>1-500ml</u>		<u>X</u>	
<u>1-250ml</u>		<u>X</u>	<u>8160</u>
<u>1-500 ml</u>		<u>H₂O₂</u>	
<u>1-500ml</u>		<u>Ascor</u>	

Date

Time

Matrix

Sample I.D. No.

06/06 0855

H₂O

N&MW #45

Date:

1/06/06

Time:

0904

Relinquished By: (Signature)

Cindy Hurtado

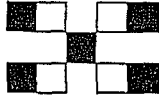
Received By: (Signature)

[Signature] 11/6/06

Remarks:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com



ANALYSIS REQUEST

Analysis Request	Response
BTEX + MTBE + TMB's (8021)	<u>X</u>
BTEX + MTBE + TPH (Gasoline Only)	
TPH Method B015B (Gas/Diesel)	<u>X</u>
TPH (Method 418.1)	
EDB (Method 504.1)	
EDC (Method 8021)	
B310 (PMA or PAH)	
PCRA 8 Metals	<u>X</u>
Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	
8081 Pesticides / PCB's (8082)	
8260B (VOA)	
8270 (Semi-VOA)	
WCC Dissolved Metals	<u>X</u>
NO ₃ Backlog	<u>X</u>
Gas Chem - Cation/Anion	<u>X</u>
Air Bubbles or Headspace (Y or N)	

CHAIN-OF-CUSTODY RECORD

Client: SAN JUAN Refining

Address: #50 Rd 4990

Bloomfield, NM
87413

Phone #: 505-632-4161

Fax #: 505-632-3911

Date

Time

Matrix

Sample I.D. No.

01/05/06 2:30p H2O Not MU #46

1-500ml
1-250ml
1-500ml
1-500ml
1-liter

Number/Volume

Preservative

HgCl₂

HNO₃

HEAL No.

2-VOA
3-VOA
1-500ml
1-250ml
1-500ml
1-liter

X
X
X
X
X

F100A
HSD1
Amk1

01001001-2

Date:

Time:

Relinquished By: (Signature)

Cindy Quintado

Received By: (Signature)

[Signature]

Date:

Time:

Remarks:

1/4/06
11:35

GA/QC Package:
Std Level 4

Other:

Project Name:
River Sample 1st QTR-2006

Project #:

Project Manager:

Sample:
Cindy Quintado

Sample Temperature:



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Albuquerque, New Mexico 87109
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ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	B310 (PMA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	B081 Pesticides / PCB's (B082)	B260B (VOA)	B270 (Semi-VOA)	WAC Dissolved Metals	NO ₃ Backup	Gen Chem / Carbon / Arsen	Air Bubbles or Headspace (Y or N)
<u>X</u>	<u>X</u>						<u>X</u>					<u>X</u>	<u>X</u>	<u>X</u>	

CHAIN-OF-CUSTODY RECORD

Client: San Juan Refining

Address: H50 Rd 4990

Bloomfield, NM
87413

Phone #: 505-632-4161

Fax #: 505-632-3911

Date	Time	Matrix	Sample I.D. No.
01/05/00	3:45	H ₂ O	River-Downstream

Date: 01/06/00
Time: 8:30 AM

Relinquished By: (Signature) Cindy Huertado
Date: _____
Time: _____

Received By: (Signature) [Signature]
Date: 01/14/00
Time: 10:35

QA/QC Package: Std Level 4

Other: _____

Project Name: River Samples 1st Qtr-2000

Project #: _____

Project Manager: Cindy Huertado

Sample Temperature: 10

Number	Volume	Preservative		HEAL No.
		HgCl ₂	HNO ₃	
2	VOA	X		01001004-3
3	VOA	X		
1	500ml		X	
1	250ml		X	fitted
1	500			HSE
1	500			Amber
1	Dist			

Remarks: _____

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Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

ANALYSIS REQUEST

BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	WACC Dissolved Metals	NO ₃ Backup	Gen Chem Cation/Anion	Air Bubbles or Headspace (Y or N)
X		X					X					X	X	X	

CHAIN-OF-CUSTODY RECORD

Client: SAN JUAN Refining

Address: #50 Rd 4990

Blann Field, NM

87413

Phone #: 505-632-4101

Fax #: 505-632-3911

QA/QC Package:
Std Level 4

Other:

Project Name:
River Sample / 1st QTR - 2006

Project #:

Project Manager:

Sample: Cindy Hurtado

Sample Temperature: 10°

HEAL No. 5201064-4

Preservative
HgCl₂ HNO₃

Number/Volume

Date	Time	Matrix	Sample I.D. No.	Number/Volume	HgCl ₂	HNO ₃	HEAL No.
01/05/06	2:15p	H ₂ O	River-upstream	2-VOA	X		5201064-4
				3-VOA	X		
				1-500ml		X	
				1-250ml	X	Filter	
				1-500ml		H ₂ SO ₄	
				1-500ml			
			Trip Blank	1-liter		Amber	-5

Date: 01/06/06
Time: 8:30A

Date: 01/06/06
Time: 10:35

Relinquished By: (Signature)
Cindy Hurtado

Relinquished By: (Signature)

Received By: (Signature)
[Signature]

Received By: (Signature)
[Signature]

ANALYSIS REQUEST

TPH Method 418.1)	EPA Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	WACC Dissolved Metals	NO ₃ Back up	Gen Chem Cath Anion	Air Bubbles or Headspace (Y or N)
	X					X					X	X	X	

Remarks:

COVER LETTER

Tuesday, March 07, 2006

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413

TEL: (505) 632-4161
FAX (505) 632-3911

RE: TK #33 - 1st Qtr - 2006

Order No.: 0603015

Dear Cindy Hurtado:

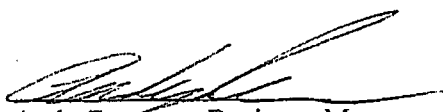
Hall Environmental Analysis Laboratory received 2 sample(s) on 3/2/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

AZ license # AZ0682
ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory

Date: 07-Mar-06

CLIENT: San Juan Refining
Project: TK #33 - 1st Qtr - 2006

Lab Order: 0603015

Lab ID: 0603015-01

Collection Date: 3/1/2006 11:15:00 AM

Client Sample ID: Tk #33

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	3/4/2006 10:03:20 AM
Toluene	ND	1.0		µg/L	1	3/4/2006 10:03:20 AM
Ethylbenzene	ND	1.0		µg/L	1	3/4/2006 10:03:20 AM
Xylenes, Total	ND	3.0		µg/L	1	3/4/2006 10:03:20 AM
Surr: 4-Bromofluorobenzene	101	82.2-119		%REC	1	3/4/2006 10:03:20 AM

Lab ID: 0603015-02

Collection Date: 3/1/2006 11:20:00 AM

Client Sample ID: Fresh Water Pond

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	3/4/2006 10:31:20 AM
Toluene	ND	1.0		µg/L	1	3/4/2006 10:31:20 AM
Ethylbenzene	ND	1.0		µg/L	1	3/4/2006 10:31:20 AM
Xylenes, Total	ND	3.0		µg/L	1	3/4/2006 10:31:20 AM
Surr: 4-Bromofluorobenzene	101	82.2-119		%REC	1	3/4/2006 10:31:20 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: 07-Mar-06

CLIENT: San Juan Refining
 Work Order: 0603015
 Project: TK #33 - 1st Qtr - 2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021BTEX_W

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18480						
Client ID: ZZZZ	Batch ID: R18480	TestNo: SW8021		Analysis Date: 3/3/2006	SeqNo: 456368						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	3.0									

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18480						
Client ID: ZZZZ	Batch ID: R18480	TestNo: SW8021		Analysis Date: 3/4/2006	SeqNo: 456369						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	20.14	1.0	20	0	101	88.5	114				
Toluene	20.49	1.0	20	0	102	87.2	114				
Ethylbenzene	20.28	1.0	20	0	101	88.6	113				
Xylenes, Total	41.45	3.0	40	0	104	83.3	114				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

3/2/2006

Work Order Number 0603015

Received by LMM

Checklist completed by

Lisa Hedrick
Signature

3/2/06
Date

Matrix

Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature?

5°

4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: SAN Juan Policing

Address: #50 Rd 4990

Bloomfield NM 87440

Phone #: 505-632-4161

Fax #: 505-632-3911

Date: 3/10/06 Time: 11:50 AM Matrix: H₂O Sample I.D. No.: TK # 33

Date: 3/10/06 Time: 11:20 AM Matrix: " Sample I.D. No.: Fresh Water Pond

QA/QC Package:

Std Level 4

Other:

Project Name:

TK # 33 - 1st QTR - 2006

Project #:

#

Project Manager:

San Juan Policing / Shelly Coulter

Sample Temperature:

Number/Volume

2-VOA

2-VOA

Preservative

HgCl₂

HNO₃

HEAL No.

TK0608015

X

X

-1

-2

Date:

3/10/06

Time:

1pm

Relinquished By: (Signature)

Shelly Coulter

Date:

3/10/06

Received By: (Signature)

Shelly Coulter

HEAL No.

0920

Remarks:

BTEX + MTBE + TPH (Gasoline Only)

X

BTEX + MTBE + TPH (Gas/Diesel)

X

TPH (Method 418.1)

EDB (Method 504.1)

EDC (Method 8021)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F⁻, Cl⁻, NO₂⁻, NO₃⁻, PO₄³⁻, SO₄²⁻)

8081 Pesticides / PCB's (8082)

8260B (VDA)

8270 (Semi-VDA)

Air Bubbles or Headspace (Y or N)

Analysis Request

COVER LETTER

Wednesday, March 22, 2006

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413

TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Terrace- 1st Quarter 2006 - Water

Order No.: 0603115

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/9/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

AZ license # AZ0682
ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory

Date: 22-Mar-06

CLIENT: San Juan Refining
 Lab Order: 0603115
 Project: River Terrace- 1st Quarter 2006 - Water
 Lab ID: 0603115-01

Client Sample ID: DW #1
 Collection Date: 3/8/2006 8:55:00 AM
 Date Received: 3/9/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	2.2	1.0		mg/L	1	3/16/2006 5:32:05 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/16/2006 5:32:05 AM
Surr: DNOP	118	58-140		%REC	1	3/16/2006 5:32:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2.8	0.25		mg/L	5	3/16/2006 11:22:35 AM
Surr: BFB	108	79.7-118		%REC	5	3/16/2006 11:22:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	12		µg/L	5	3/20/2006 4:43:11 PM
Benzene	ND	5.0		µg/L	5	3/20/2006 4:43:11 PM
Toluene	ND	5.0		µg/L	5	3/20/2006 4:43:11 PM
Ethylbenzene	41	5.0		µg/L	5	3/20/2006 4:43:11 PM
Xylenes, Total	230	15		µg/L	5	3/20/2006 4:43:11 PM
Surr: 4-Bromofluorobenzene	95.8	82.2-119		%REC	5	3/20/2006 4:43:11 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	0.021	0.0010		mg/L	5	3/9/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Chromium	0.0095	0.0060		mg/L	1	3/15/2006 12:03:43 PM
Lead	ND	0.0050		mg/L	1	3/15/2006 12:03:43 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 22-Mar-06

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0603115
 Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8015DRO_W

Sample ID	MB-9976	SampType	MBLK	TestCode	8015DRO_W	Units	mg/L	Prep Date	3/14/2006	RunNo	18596	
Client ID	ZZZZZ	Batch ID	9976	TestNo	SW8015			Analysis Date	3/16/2006	SeqNo	461813	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		ND	1.0									
Motor Oil Range Organics (MRO)		ND	5.0									

Sample ID	LCS-9976	SampType	LCS	TestCode	8015DRO_W	Units	mg/L	Prep Date	3/14/2006	RunNo	18596	
Client ID	ZZZZZ	Batch ID	9976	TestNo	SW8015			Analysis Date	3/16/2006	SeqNo	461814	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		5.300	1.0	5	0	106	81.2	149				

Sample ID	LCSD-9976	SampType	LCSD	TestCode	8015DRO_W	Units	mg/L	Prep Date	3/14/2006	RunNo	18596	
Client ID	ZZZZZ	Batch ID	9976	TestNo	SW8015			Analysis Date	3/16/2006	SeqNo	461040	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		5.766	1.0	5	0	115	81.2	149	0	0	23	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0603115

Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8015GRO_W

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18582
Client ID: ZZZZZ	Batch ID: R18582	TestNo: SW8015		Analysis Date: 3/14/2006	SeqNo: 460723
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Gasoline Range Organics (GRO)	ND	0.050			
				HighLimit	RPDLimit
				LowLimit	RPDLimit

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18620
Client ID: ZZZZZ	Batch ID: R18620	TestNo: SW8015		Analysis Date: 3/16/2006	SeqNo: 462331
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Gasoline Range Organics (GRO)	ND	0.050			
				HighLimit	RPDLimit
				LowLimit	RPDLimit

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18652
Client ID: ZZZZZ	Batch ID: R18652	TestNo: SW8015		Analysis Date: 3/20/2006	SeqNo: 463005
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Gasoline Range Organics (GRO)	ND	0.050			
				HighLimit	RPDLimit
				LowLimit	RPDLimit

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18582
Client ID: ZZZZZ	Batch ID: R18582	TestNo: SW8015		Analysis Date: 3/15/2006	SeqNo: 460724
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Gasoline Range Organics (GRO)	0.4820	0.050	0.5	0	96.4
					114
				HighLimit	RPDLimit
				LowLimit	RPDLimit

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18620
Client ID: ZZZZZ	Batch ID: R18620	TestNo: SW8015		Analysis Date: 3/16/2006	SeqNo: 462332
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Gasoline Range Organics (GRO)	0.4940	0.050	0.5	0	98.8
					114
				HighLimit	RPDLimit
				LowLimit	RPDLimit

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0603115

Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8015GRO_W

Sample ID: 2.5UG GRO LCS	Batch ID: R18652	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18652					
Client ID: ZZZZZ	Batch ID: SW8015	TestNo: SW8015		Analysis Date: 3/20/2006	SeqNo: 463006					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.5220	0.050	0.5	104	82.6	114				

Sample ID: 2.5UG GRO LCSD	Batch ID: R18652	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18652					
Client ID: ZZZZZ	Batch ID: SW8015	TestNo: SW8015		Analysis Date: 3/20/2006	SeqNo: 463007					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.5140	0.050	0.5	103	82.6	114	0.522	1.54	8.39	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
Work Order: 0603115
Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8021BTEX_W

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18582						
Client ID: ZZZZZ	Batch ID: R18582	TestNo: SW8021		Analysis Date: 3/14/2006	SeqNo: 460824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	3.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18620						
Client ID: ZZZZZ	Batch ID: R18620	TestNo: SW8021		Analysis Date: 3/16/2006	SeqNo: 462157						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	3.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18652						
Client ID: ZZZZZ	Batch ID: R18652	TestNo: SW8021		Analysis Date: 3/20/2006	SeqNo: 462985						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	3.0									

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0603115
 Project: River Terrace- 1st Quarter 2006 - Water

TestCode: 8021BTEX_W

Sample ID: 75NG BTEX CCV-B	SampType: LCS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18582
Client ID: ZZZZ	Batch ID: R18582	TestNo: SW8021		Analysis Date: 3/14/2006	SeqNo: 460825

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	30.25	2.5	30	0	101	64.5	133				
Benzene	13.95	1.0	15	0	93.0	88.5	114				
Toluene	15.27	1.0	15	0	102	87.2	114				
Ethylbenzene	14.05	1.0	15	0	93.7	88.6	113				
Xylenes, Total	43.93	3.0	45	0	97.6	83.3	114				
1,2,4-Trimethylbenzene	14.10	1.0	15	0	94.0	83.8	114				
1,3,5-Trimethylbenzene	14.09	1.0	15	0	93.9	82.8	114				

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18620
Client ID: ZZZZ	Batch ID: R18620	TestNo: SW8021		Analysis Date: 3/16/2006	SeqNo: 462158

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	16.48	2.5	20	0	82.4	64.5	133				
Benzene	19.52	1.0	20	0	97.6	88.5	114				
Toluene	20.29	1.0	20	0	101	87.2	114				
Ethylbenzene	19.77	1.0	20	0	98.9	88.6	113				
Xylenes, Total	41.12	3.0	40	0	103	83.3	114				
1,2,4-Trimethylbenzene	18.22	1.0	20	0	91.1	83.8	114				
1,3,5-Trimethylbenzene	18.27	1.0	20	0	91.4	82.8	114				

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18652
Client ID: ZZZZ	Batch ID: R18652	TestNo: SW8021		Analysis Date: 3/20/2006	SeqNo: 462986

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	17.56	2.5	20	0	87.8	64.5	133				
Benzene	19.29	1.0	20	0	96.5	88.5	114				
Toluene	19.91	1.0	20	0	99.5	87.2	114				
Ethylbenzene	19.48	1.0	20	0	97.4	88.6	113				
Xylenes, Total	40.17	3.0	40	0	100	83.3	114				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: San Juan Refining
 Work Order: 0603115
 Project: River Terrace- 1st Quarter 2006 - Water

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021BTEX_W

Sample ID: 100NG BTEX LCSD SampType: LCSD TestCode: 8021BTEX_W Units: µg/L Prep Date: RunNo: 18652
 Client ID: ZZZZZ Batch ID: R18652 TestNo: SW8021 Analysis Date: 3/20/2006 SeqNo: 462987

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	18.04	2.5	20	0	90.2	64.5	133	17.56	2.71	28	
Benzene	18.80	1.0	20	0	94.0	88.5	114	19.29	2.59	27	
Toluene	19.36	1.0	20	0	96.8	87.2	114	19.91	2.77	19	
Ethylbenzene	18.99	1.0	20	0	95.0	88.6	113	19.48	2.55	10	
Xylenes, Total	39.15	3.0	40	0	97.9	83.3	114	40.17	2.58	13	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike/Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
Work Order: 06031115
Project: River Terrace- 1st Quarter 2006 - Water

TestCode: HG_CTW

Sample ID: MB-9952	SampType: MBLK	TestCode: HG_CTW	Units: mg/L	Prep Date: 3/9/2006	RunNo: 18533						
Client ID: ZZZZZ	Batch ID: 9952	TestNo: SW7470	(SW7470)	Analysis Date: 3/9/2006	SeqNo: 459419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020									

Sample ID: LCS-9952	SampType: LCS	TestCode: HG_CTW	Units: mg/L	Prep Date: 3/9/2006	RunNo: 18533						
Client ID: ZZZZZ	Batch ID: 9952	TestNo: SW7470	(SW7470)	Analysis Date: 3/9/2006	SeqNo: 459420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004605	0.00020	0.005	0	92.1	80	120				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: San Juan Refining
 Work Order: 0603115
 Project: River Terrace- 1st Quarter 2006 - Water

TestCode: METALS_TOTAL

Sample ID: MB-9981	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/14/2006	RunNo: 18593						
Client ID: ZZZZZ	Batch ID: 9981	TestNo: SW6010A		Analysis Date: 3/15/2006	SeqNo: 460967						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 0.0060
 Lead ND 0.0050

Sample ID: LCS-9981	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/14/2006	RunNo: 18593						
Client ID: ZZZZZ	Batch ID: 9981	TestNo: SW6010A		Analysis Date: 3/15/2006	SeqNo: 460968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 0.5162 0.0060 0.5 0.0006694 103 80 120
 Lead 0.5222 0.0050 0.5 0 104 80 120

Sample ID: LCSD-9981	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/14/2006	RunNo: 18593						
Client ID: ZZZZZ	Batch ID: 9981	TestNo: SW6010A		Analysis Date: 3/15/2006	SeqNo: 460969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 0.5112 0.0060 0.5 0.0006694 102 80 120 0.5162 0.979 20
 Lead 0.5219 0.0050 0.5 0 104 80 120 0.5222 0.0546 20

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

3/9/2006

Work Order Number 0603115

Received by AT

Checklist completed by

[Handwritten Signature]

Signature

Date

3/9/06

Matrix

Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? 1° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: SAN JUAN Refining

Address: #50 Rd 4990

Blomfield, NM 89413

Phone #: 505-632-4161

Fax #: 505-632-3911

QA/QC Package:
 Std Level 4

Other:

Project Name:

River Terrace - 1st Qtr - 2006 - Water

Project #:

Project Manager:

Cindy Hurtado
 Sample: Cindy Hurtado / Shelly Gubler
 Sample Temperature:

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃ HCl

HEAL No.

3/8/06

11

855A WATER

11

DW#1

4-VOA

1-500ml

X

0603/15-1

-1

ANALYSIS REQUEST

BTEX + MTBE + TPB (Gasoline Only) X

BTEX + MTBE + TPB (Gas/Diesel) X

TPH (Method 478.1)

TPH Method 8015B (Gas/Diesel)

EDC (Method 8021)

B310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₂, NO₃, PO₄, SO₄)

8081 Pesticides / PCB's (8082)

82608 (VOA)

8270 (Semi-VOA)

Total Pb, Cd, Hg X

Air Bubbles or Headspace (Y or N)

Date: 3/8/06

Time: 3:10p

Relinquished By: (Signature)

Cindy Hurtado

Received By: (Signature)

[Signature]

3/9/06

1000

Remarks:

GIANT

REFINING COMPANY

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

RECEIVED
OCT 3 2005
OIL CONSERVATION
DIVISION

Certified Mail: 7004 2510 0005 1641 4576

September 29, 2005

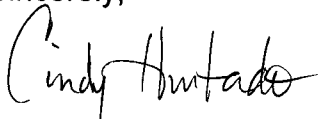
RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001

Dear Mr. Price,

Please find attached analytical results for the August 24, 2005 and September 21, 2005 sampling events for Tank #33 and the Fresh Water Ponds at the Giant Refining facility. Note that the results for the August event were all <0.50 ug/L. September results for benzene at Tank #33 are 0.84 ug/L, which is well below the WQCC standard of 10 ug/L. All September results for the Fresh Water Pond are <0.5 ug/L. We will continue to monitor both points on a monthly basis and evaluate the concentration trends.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,



Cindy Hurtado
Environmental Coordinator
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

PHONE
505-632-8013
FAX
505-632-3911

50 ROAD 4990
P.O. BOX 159
BLOOMFIELD
NEW MEXICO
87413

COVER LETTER

September 06, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: Tank #33-8/05

Order No.: 0508292

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 3 samples on 8/25/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 06-Sep-05

CLIENT: San Juan Refining
Project: Tank #33-8/05

Lab Order: 0508292

Lab ID: 0508292-01

Collection Date: 8/24/2005 1:15:00 PM

Client Sample ID: TK #33

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	9/1/2005 2:04:01 PM
Toluene	ND	0.50		µg/L	1	9/1/2005 2:04:01 PM
Ethylbenzene	ND	0.50		µg/L	1	9/1/2005 2:04:01 PM
Xylenes, Total	ND	0.50		µg/L	1	9/1/2005 2:04:01 PM
Surr: 4-Bromofluorobenzene	96.5	82.2-119		%REC	1	9/1/2005 2:04:01 PM

Lab ID: 0508292-02

Collection Date: 8/24/2005 1:30:00 PM

Client Sample ID: Fresh Water Pond

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	9/1/2005 2:35:28 PM
Toluene	ND	0.50		µg/L	1	9/1/2005 2:35:28 PM
Ethylbenzene	ND	0.50		µg/L	1	9/1/2005 2:35:28 PM
Xylenes, Total	ND	0.50		µg/L	1	9/1/2005 2:35:28 PM
Surr: 4-Bromofluorobenzene	96.6	82.2-119		%REC	1	9/1/2005 2:35:28 PM

Lab ID: 0508292-03

Collection Date:

Client Sample ID: Trip Blank

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	9/1/2005 3:07:00 PM
Toluene	ND	0.50		µg/L	1	9/1/2005 3:07:00 PM
Ethylbenzene	ND	0.50		µg/L	1	9/1/2005 3:07:00 PM
Xylenes, Total	ND	0.50		µg/L	1	9/1/2005 3:07:00 PM
Surr: 4-Bromofluorobenzene	93.4	82.2-119		%REC	1	9/1/2005 3:07:00 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
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0508292
Project: Tank #33-8/05

Sample ID	Reagent Blank 5m	Batch ID: R16519	Test Code: SW8021	Units: µg/L	Analysis Date 9/1/2005 9:24:37 AM	Prep Date
Client ID:	Run ID: PIDFID_050901A	PQL	SPK value	SPK Ref Val	SeqNo: 394723	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit Qual
Benzene	ND	0.5				
Toluene	ND	0.5				
Ethylbenzene	ND	0.5				
Xylenes, Total	ND	0.5				
Surf: 4-Bromofluorobenzene	18.53	0	20	0	92.6	82.2 119 0

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

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

QC SUMMARY REPORT
Sample Matrix Spike

CLIENT: San Juan Refining
Work Order: 0508292
Project: Tank #33-8/05

Sample ID	0508292-02a ms	Batch ID	R16519	Test Code	SW8021	Units	µg/L	Analysis Date	9/1/2005 3:38:33 PM	Prep Date			
Client ID	Fresh Water Pond	Run ID	PIDFID_050901A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result											
Benzene		21.47	0.5	20	0	107	88.5	114		0			
Toluene		20.19	0.5	20	0	101	87.2	114		0			
Ethylbenzene		20.41	0.5	20	0	102	88.6	113		0			
Xylenes, Total		42.21	0.5	40	0	106	83.3	114		0			
Surr: 4-Bromofluorobenzene		20.93	0	20	0	105	82.2	119		0			

Sample ID	0508292-02a msd	Batch ID	R16519	Test Code	SW8021	Units	µg/L	Analysis Date	9/1/2005 4:10:06 PM	Prep Date			
Client ID	Fresh Water Pond	Run ID	PIDFID_050901A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result											
Benzene		20.71	0.5	20	0	104	88.5	114		21.47	3.63	27	
Toluene		19.43	0.5	20	0	97.2	87.2	114		20.19	3.84	19	
Ethylbenzene		19.73	0.5	20	0	98.7	88.6	113		20.41	3.36	10	
Xylenes, Total		40.37	0.5	40	0	101	83.3	114		42.21	4.45	13	
Surr: 4-Bromofluorobenzene		20.93	0	20	0	105	82.2	119		20.93	0.0115	0	

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

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0508292
Project: Tank #33-8/05

Sample ID	BTEX Ics	100ng	Batch ID: R16519	Test Code: SW8021	Units: µg/L	Analysis Date	9/1/2005 4:41:34 PM	Prep Date				
Client ID:	Run ID:	PIDFID_050901A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.45	0.5	20	0	0	107	88.5	114	0			
Toluene	20.27	0.5	20	0	0	101	87.2	114	0			
Ethylbenzene	20.13	0.5	20	0	0	101	88.6	113	0			
Xylenes, Total	41.72	0.5	40	0	0	104	83.3	114	0			

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

8/25/05

Work Order Number 0508292

Received by SSB

Checklist completed by

Signature: [Handwritten Signature] Date: 8-25-05

Matrix:

Carrier name: UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature?

9°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

September 28, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: TANK #33 -9/05

Order No.: 0509240

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 3 samples on 9/22/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 28-Sep-05

CLIENT: San Juan Refining
Project: TANK #33 -9/05

Lab Order: 0509240

Lab ID:	0509240-01	Collection Date:	9/21/2005 2:40:00 PM
Client Sample ID:	TK #33	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.84	0.50		µg/L	1	9/23/2005 8:36:32 PM
Toluene	ND	0.50		µg/L	1	9/23/2005 8:36:32 PM
Ethylbenzene	ND	0.50		µg/L	1	9/23/2005 8:36:32 PM
Xylenes, Total	ND	0.50		µg/L	1	9/23/2005 8:36:32 PM
Surr: 4-Bromofluorobenzene	99.9	82.2-119		%REC	1	9/23/2005 8:36:32 PM

Lab ID:	0509240-02	Collection Date:	9/21/2005 2:44:00 PM
Client Sample ID:	Fresh Water Ponds	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	9/23/2005 11:10:21 PM
Toluene	ND	0.50		µg/L	1	9/23/2005 11:10:21 PM
Ethylbenzene	ND	0.50		µg/L	1	9/23/2005 11:10:21 PM
Xylenes, Total	ND	0.50		µg/L	1	9/23/2005 11:10:21 PM
Surr: 4-Bromofluorobenzene	97.5	82.2-119		%REC	1	9/23/2005 11:10:21 PM

Lab ID:	0509240-03	Collection Date:	
Client Sample ID:	Trip Blank	Matrix:	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	9/23/2005 11:40:58 PM
Toluene	ND	0.50		µg/L	1	9/23/2005 11:40:58 PM
Ethylbenzene	ND	0.50		µg/L	1	9/23/2005 11:40:58 PM
Xylenes, Total	ND	0.50		µg/L	1	9/23/2005 11:40:58 PM
Surr: 4-Bromofluorobenzene	95.3	82.2-119		%REC	1	9/23/2005 11:40:58 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 28-Sep-05

CLIENT: San Juan Refining
 Work Order: 0509240
 Project: TANK #33 -9/05

QC SUMMARY REPORT
 Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R16759	Test Code: SW8021	Units: µg/L	Analysis Date 9/23/2005 9:37:19 AM	Prep Date					
Client ID:	Run ID: PIDFID_050923A	SeqNo: 403397									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	18.66	0	20	0	93.3	82.2	119	0			

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

Hall Environmental Analysis Laboratory

Date: 28-Sep-05

QC SUMMARY REPORT
Sample Matrix Spike

CLIENT: San Juan Refining
Work Order: 0509240
Project: TANK #33 -9/05

Sample ID	0509240-01a ms	Batch ID:	SW8021	Test Code:	SW8021	Units:	µg/L	Analysis Date	9/23/2005 9:07:23 PM	Prep Date			
Client ID:	TK #33	Run ID:	PIDFID_050923A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result											
Benzene		19.65	0.5	20	0.8358	0	94.1	88.5	114	0			
Toluene		19.3	0.5	20	0	0	96.5	87.2	114	0			
Ethylbenzene		19.59	0.5	20	0.2464	0	96.7	88.6	113	0			
Xylenes, Total		39.9	0.5	40	0.3296	0	98.9	83.3	114	0			
Surr: 4-Bromofluorobenzene		21.02	0	20	0	0	105	82.2	119	0			

Sample ID	0509240-01a msd	Batch ID:	SW8021	Test Code:	SW8021	Units:	µg/L	Analysis Date	9/23/2005 9:38:16 PM	Prep Date			
Client ID:	TK #33	Run ID:	PIDFID_050923A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result											
Benzene		19.86	0.5	20	0.8358	0	95.1	88.5	114	19.65	1.05	27	
Toluene		19.35	0.5	20	0	0	96.7	87.2	114	19.3	0.258	19	
Ethylbenzene		19.61	0.5	20	0.2464	0	96.8	88.6	113	19.59	0.103	10	
Xylenes, Total		39.98	0.5	40	0.3296	0	99.1	83.3	114	39.9	0.206	13	
Surr: 4-Bromofluorobenzene		20.95	0	20	0	0	105	82.2	119	21.02	0.359	0	

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

Hall Environmental Analysis Laboratory

Date: 28-Sep-05

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0509240
Project: TANK #33 -9/05

Sample ID	BTEX Ics 100ng	Batch ID: R16759	Test Code: SW8021	Units: µg/L	Analysis Date	9/23/2005 10:09:01 PM	Prep Date					
Client ID:	Run ID:	PIDFID_050923A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	18.83		0.5	20	0	94.1	88.5	114	0			
Toluene	19.17		0.5	20	0	95.9	87.2	114	0			
Ethylbenzene	19.35		0.5	20	0	96.7	88.6	113	0			
Xylenes, Total	39.79		0.5	40	0	99.5	83.3	114	0			

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

9/22/05

Work Order Number 0509240

Received by SSB

Checklist completed by

[Signature]
Signature

9/22/05
Date

Matrix

Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? 6° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: SAN Juan Refiners

Address: #50 Rd 4990
Bloomfield, NM 87413

Phone #: 505-632-4161
 Fax #: 505-632-3911

Date: 9/21/05 Time: 2:40pm Matrix: H2O Sample I.D. No.: TK # 33

Date: 9/21/05 Time: 2:44pm Matrix: Fresh Water Ponds Sample I.D. No.: Fresh Water Ponds

Date: Time: Matrix: Trip Blank Sample I.D. No.: Trip Blank

Date: 9/21/05 Time: 3:56a Relinquished By: (Signature) Crow Hurtado

Date: Time: Relinquished By: (Signature)

Received By: (Signature) [Signature]
 Received By: (Signature) [Signature]
 Date: 9/22/05
 Time: 12:10

QA/QC Package: Std Level 4

Other: TANK # 33 - 9/05

Project Name: TANK # 33 - 9/05

Project #:

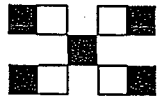
Project Manager:

Sampler: Cindy Hurtado / Angela Turk

Sample Temperature:

Number	Volume	Preservative		HEAL No.
		HgCl ₂	HNO ₃	
1	2-VOA	X		0509240
2	2-VOA	X		
3				

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com



ANALYSIS REQUEST

Analysis	Request
BTEX + MTBE + TPH (Gasoline Only)	<input checked="" type="checkbox"/>
BTEX + MTBE + TPH (Gas/Diesel)	<input checked="" type="checkbox"/>
TPH Method 8015B (Gas/Diesel)	<input checked="" type="checkbox"/>
TPH (Method 418.1)	<input type="checkbox"/>
EDB (Method 504.1)	<input type="checkbox"/>
EDC (Method 8021)	<input type="checkbox"/>
B310 (PNA or PAH)	<input type="checkbox"/>
PCRA 8 Metals	<input type="checkbox"/>
Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	<input type="checkbox"/>
8081 Pesticides / PCB's (8082)	<input type="checkbox"/>
8260B (VDA)	<input type="checkbox"/>
8270 (Semi-VDA)	<input type="checkbox"/>
Air Bubbles or Headspace (Y or N)	<input type="checkbox"/>

Remarks: UPS

RECEIVED

OCT 3 2005

OIL CONSERVATION
DIVISION

GIANT

Giant Refining Company
Route 3, Box 7
Gallup, NM 87301

September 26, 2005

Wayne Price, Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Denny Foust, Environmental Geologist
Oil Conservation Division
1000 Rio Bravo Rd
Aztec, NM 887410

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505

RE: Soil Sampling for spills dated 8/3/05 and 8/15/05

Dear Wayne, Denny and Hope:

The purpose of this letter is to update your office regarding how and where soil samples were taken from the above dated spills. As you are aware, immediately following the spills the impacted soils were excavated and stockpiled (see attached pictures) on plastic lining. Each stockpile was segregated and representative samples were taken from each and tested for RCRA metals, and 8260B (see attached lab results dated 8/16/05).

At each of the two stockpiles, two four-ounce jars were filled from several locations within the pile ensuring a representative fresh sample. All jars were completely filled to the top and the soil compacted to minimize any air (no head space) pockets. Giant personnel not only ensured the samples were representative, but also ensure all soils gathered were fresh and not dried out. Moreover, the sampler wore surgeon's gloves and changed them with each new sample. At the end of sampling, the samples were placed in an ice filled cooler and were taken in for analysis.

If you need any additional information please contact James Romero of my staff at 505-722-0227 or feel free to contact me at 505-722-3217.

Sincerely,



Ed Riege, Environmental Superintendent
Giant Refining



Stockpile for spill 8/3/05



Stockpile for spill 8/15/05

COVER LETTER

September 06, 2005

Steve Morris
Giant Refining Co
Rt. 3 Box 7
Gallup, NM 87301
TEL: (505) 722-0258
FAX (505) 722-0210

RE: Soil Sample From 8/3/05 Event

Order No.: 0508180

Dear Steve Morris:

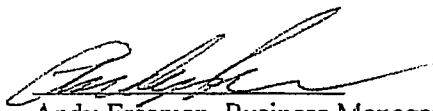
Hall Environmental Analysis Laboratory received 1 sample on 8/17/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 06-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0508180
 Project: Soil Sample From 8/3/05 Event
 Lab ID: 0508180-01

Client Sample ID: Soil 8 3 05
 Collection Date: 8/16/2005 11:00:00 AM
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	8/22/2005
Toluene	ND	0.050		mg/Kg	1	8/22/2005
Ethylbenzene	ND	0.050		mg/Kg	1	8/22/2005
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/22/2005
1,2,4-Trimethylbenzene	0.18	0.050		mg/Kg	1	8/22/2005
1,3,5-Trimethylbenzene	0.10	0.050		mg/Kg	1	8/22/2005
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/22/2005
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/22/2005
Naphthalene	0.15	0.10		mg/Kg	1	8/22/2005
1-Methylnaphthalene	0.65	0.20		mg/Kg	1	8/22/2005
2-Methylnaphthalene	0.47	0.20		mg/Kg	1	8/22/2005
Acetone	ND	0.50		mg/Kg	1	8/22/2005
Bromobenzene	ND	0.050		mg/Kg	1	8/22/2005
Bromochloromethane	ND	0.050		mg/Kg	1	8/22/2005
Bromodichloromethane	ND	0.050		mg/Kg	1	8/22/2005
Bromoform	ND	0.050		mg/Kg	1	8/22/2005
Bromomethane	ND	0.10		mg/Kg	1	8/22/2005
2-Butanone	ND	0.50		mg/Kg	1	8/22/2005
Carbon disulfide	ND	0.50		mg/Kg	1	8/22/2005
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/22/2005
Chlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
Chloroethane	ND	0.10		mg/Kg	1	8/22/2005
Chloroform	ND	0.050		mg/Kg	1	8/22/2005
Chloromethane	ND	0.050		mg/Kg	1	8/22/2005
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/22/2005
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/22/2005
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/22/2005
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/22/2005
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/22/2005
Dibromochloromethane	ND	0.050		mg/Kg	1	8/22/2005
Dibromomethane	ND	0.10		mg/Kg	1	8/22/2005
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/22/2005
1,1-Dichloroethane	ND	0.050		mg/Kg	1	8/22/2005
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/22/2005
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/22/2005
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/22/2005
2,2-Dichloropropane	ND	0.050		mg/Kg	1	8/22/2005
1,1-Dichloropropene	ND	0.050		mg/Kg	1	8/22/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: Soil 8 3 05

Lab Order: 0508180

Collection Date: 8/16/2005 11:00:00 AM

Project: Soil Sample From 8/3/05 Event

Lab ID: 0508180-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	0.050		mg/Kg	1	8/22/2005
2-Hexanone	ND	0.50		mg/Kg	1	8/22/2005
Isopropylbenzene	ND	0.050		mg/Kg	1	8/22/2005
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/22/2005
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/22/2005
Methylene chloride	ND	0.15		mg/Kg	1	8/22/2005
n-Butylbenzene	0.16	0.050		mg/Kg	1	8/22/2005
n-Propylbenzene	ND	0.050		mg/Kg	1	8/22/2005
sec-Butylbenzene	0.051	0.050		mg/Kg	1	8/22/2005
Styrene	ND	0.050		mg/Kg	1	8/22/2005
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/22/2005
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/22/2005
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/22/2005
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/22/2005
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/22/2005
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/22/2005
1,2,3-Trichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/22/2005
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/22/2005
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/22/2005
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/22/2005
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/22/2005
Vinyl chloride	ND	0.050		mg/Kg	1	8/22/2005
Xylenes, Total	0.055	0.050		mg/Kg	1	8/22/2005
Surr: 1,2-Dichloroethane-d4	101	82.3-110		%REC	1	8/22/2005
Surr: 4-Bromofluorobenzene	105	87.4-120		%REC	1	8/22/2005
Surr: Dibromofluoromethane	106	82.8-110		%REC	1	8/22/2005
Surr: Toluene-d8	89.1	81.5-114		%REC	1	8/22/2005
EPA METHOD 7471: MERCURY						Analyst: CMC
Mercury	0.14	0.033		mg/Kg	1	8/22/2005
EPA METHOD 6010C: SOIL METALS						Analyst: NMO
Arsenic	ND	2.5		mg/Kg	1	8/24/2005 3:07:11 PM
Barium	460	1.0		mg/Kg	10	8/26/2005 4:49:12 PM
Cadmium	ND	0.10		mg/Kg	1	8/24/2005 3:07:11 PM
Chromium	7.3	0.30		mg/Kg	1	8/24/2005 3:07:11 PM
Lead	6.3	0.25		mg/Kg	1	8/24/2005 3:07:11 PM
Selenium	ND	2.5		mg/Kg	1	8/24/2005 3:07:11 PM
Silver	ND	0.25		mg/Kg	1	8/24/2005 3:07:11 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

CLIENT: Giant Refining Co
 Work Order: 0508180
 Project: Soil Sample From 8/3/05 Event

QC SUMMARY REPORT

Method Blank

Sample ID MB-8591 Batch ID: 8591 Test Code: SW7471 Units: mg/Kg Analysis Date 8/22/2005 Prep Date 8/22/2005
 Client ID: MI-LA254_050822B Run ID: 390821 SeqNo: 390821
 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
 Mercury ND 0.033

Sample ID MB-8583 Batch ID: 8583 Test Code: SW6010A Units: mg/Kg Analysis Date 8/24/2005 2:00:56 PM Prep Date 8/22/2005
 Client ID: ICP_050824A Run ID: 392723 SeqNo: 392723

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND										
Barium	ND	2.5									
Cadmium	ND	0.1									
Chromium	ND	0.1									
Lead	ND	0.3									
Selenium	ND	0.25									
Silver	ND	2.5									

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co
 Work Order: 0508180
 Project: Soil Sample From 8/3/05 Event

Sample ID	mb-8554	Batch ID	8554	Test Code	SW6260B	Units	mg/Kg	Analysis Date	8/22/2005	SeqNo	390910	Prep Date	8/18/2005
Client ID	THOR_050822A	Run ID	THOR_050822A	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	0.0162	0.05									J		
Toluene	0.0186	0.05									J		
Ethylbenzene	0.0119	0.05									J		
Methyl tert-butyl ether (MTBE)	ND	0.05											
1,2,4-Trimethylbenzene	ND	0.05											
1,3,5-Trimethylbenzene	ND	0.05											
1,2-Dichloroethane (EDC)	0.0168	0.05									J		
1,2-Dibromoethane (EDB)	ND	0.05											
Naphthalene	ND	0.1											
1-Methylnaphthalene	ND	0.2											
2-Methylnaphthalene	ND	0.2											
Acetone	ND	0.5											
Bromobenzene	ND	0.05											
Bromochloromethane	ND	0.05											
Bromodichloromethane	ND	0.05											
Bromoforn	ND	0.05											
Bromomethane	ND	0.1									J		
2-Butanone	0.4807	0.5											
Carbon disulfide	ND	0.5											
Carbon tetrachloride	ND	0.1											
Chlorobenzene	ND	0.05											
Chloroethane	ND	0.1											
Chloroform	ND	0.05											
Chloromethane	ND	0.05											
2-Chlorotoluene	ND	0.05											
4-Chlorotoluene	ND	0.05											
cis-1,2-DCE	ND	0.05											

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

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co
Work Order: 0508180
Project: Soil Sample From 8/3/05 Event

cis-1,3-Dichloropropene	ND	0.05	
1,2-Dibromo-3-chloropropane	ND	0.1	
Dibromochloromethane	ND	0.05	
Dibromomethane	ND	0.1	
1,2-Dichlorobenzene	ND	0.05	
1,3-Dichlorobenzene	ND	0.05	
1,4-Dichlorobenzene	ND	0.05	
Dichlorodifluoromethane	ND	0.05	
1,1-Dichloroethane	ND	0.05	
1,1-Dichloroethene	ND	0.05	
1,2-Dichloropropane	0.0162	0.05	J
1,3-Dichloropropane	ND	0.05	
2,2-Dichloropropane	ND	0.05	
1,1-Dichloropropene	ND	0.05	
Hexachlorobutadiene	ND	0.05	
2-Hexanone	ND	0.5	
Isopropylbenzene	ND	0.05	
4-Isopropyltoluene	ND	0.05	
4-Methyl-2-pentanone	0.0973	0.5	J
Methylene chloride	ND	0.15	
n-Butylbenzene	ND	0.05	
n-Propylbenzene	ND	0.05	
sec-Butylbenzene	ND	0.05	
Styrene	ND	0.05	
tert-Butylbenzene	ND	0.05	
1,1,1,2-Tetrachloroethane	ND	0.05	
1,1,2,2-Tetrachloroethane	ND	0.05	
Tetrachloroethene (PCE)	0.0231	0.05	J
trans-1,2-DCE	ND	0.05	
trans-1,3-Dichloropropene	ND	0.05	
1,2,3-Trichlorobenzene	ND	0.05	
1,2,4-Trichlorobenzene	0.0057	0.05	J
1,1,1-Trichloroethane	ND	0.05	

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

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co

Work Order: 0508180

Project: Soil Sample From 8/3/05 Event

1,1,2-Trichloroethane	ND	0.05							
Trichloroethene (TCE)	ND	0.05							
Trichlorofluoromethane	ND	0.05							
1,2,3-Trichloropropane	ND	0.1							
Vinyl chloride	ND	0.05							
Xylenes, Total	ND	0.05							
Surr: 1,2-Dichloroethane-d4	0.5414	0	0.5	0	108	82.3	110	0	0
Surr: 4-Bromofluorobenzene	0.5253	0	0.5	0	105	87.4	120	0	0
Surr: Dibromofluoromethane	0.5481	0	0.5	0	110	82.8	110	0	0
Surr: Toluene-d8	0.4536	0	0.5	0	90.7	81.5	114	0	0

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

Date: 06-Sep-05

Hall Environmental Analysis Laboratory

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: Giant Refining Co
Work Order: 0508180
Project: Soil Sample From 8/3/05 Event

Sample ID	Ics-8554	Batch ID:	8554	Test Code:	SW8260B	Units:	mg/Kg	Analysis Date	8/22/2005	Prep Date	8/18/2005
Client ID:		Run ID:	THOR_050822A	SeqNo:	390944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.9753	0.05	1	0.0162	95.9	84	119	0			
Toluene	0.9313	0.05	1	0.0186	91.3	88.4	124	0			
Chlorobenzene	1.105	0.05	1	0	110	93.2	120	0			
1,1-Dichloroethene	0.9496	0.05	1	0	95.0	59	122	0			
Trichloroethene (TCE)	0.7693	0.05	1	0	76.9	69.4	120	0			

Sample ID	Icsd-8554	Batch ID:	8554	Test Code:	SW8260B	Units:	mg/Kg	Analysis Date	8/22/2005	Prep Date	8/18/2005
Client ID:		Run ID:	THOR_050822A	SeqNo:	390946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.011	0.05	1	0.0162	99.5	84	119	0.9753	3.61	20	
Toluene	0.9179	0.05	1	0.0186	89.9	88.4	124	0.9313	1.45	20	
Chlorobenzene	1.001	0.05	1	0	100	93.2	120	1.105	9.85	20	
1,1-Dichloroethene	0.941	0.05	1	0	94.1	59	122	0.9496	0.910	20	
Trichloroethene (TCE)	0.7953	0.05	1	0	79.5	69.4	120	0.7693	3.32	20	

Sample ID	LCS-8591	Batch ID:	8591	Test Code:	SW7471	Units:	mg/Kg	Analysis Date	8/22/2005	Prep Date	8/22/2005
Client ID:		Run ID:	MI-LA254_050822B	SeqNo:	390822						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1532	0.033	0.1667	0	91.9	75	125	0			

Sample ID	LCSd-8591	Batch ID:	8591	Test Code:	SW7471	Units:	mg/Kg	Analysis Date	8/22/2005	Prep Date	8/22/2005
Client ID:		Run ID:	MI-LA254_050822B	SeqNo:	390837						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1558	0.033	0.1667	0	93.5	75	125	0.1532	1.70	20	

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
 Work Order: 0508180
 Project: Soil Sample From 8/3/05 Event

Sample ID	LCS-8583	Batch ID	8583	Test Code	SW6010A	Units	mg/Kg	Analysis Date	8/24/2005 2:03:59 PM	Prep Date	8/22/2005
Client ID:		Run ID:	ICP_050824A	SeqNo:	392724						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24.43	2.5	25	0	97.7	80	120	0			
Barium	22.41	0.1	25	0	89.6	80	120	0			
Cadmium	23.64	0.1	25	0	94.6	80	120	0			
Chromium	22.99	0.3	25	0	92.0	80	120	0			
Lead	23.06	0.25	25	0	92.2	80	120	0			
Selenium	23.5	2.5	25	0	94.0	80	120	0			
Silver	24.55	0.25	25	0	98.2	80	120	0			

Sample ID	LCSD-8583	Batch ID	8583	Test Code	SW6010A	Units	mg/Kg	Analysis Date	8/24/2005 2:07:14 PM	Prep Date	8/22/2005
Client ID:		Run ID:	ICP_050824A	SeqNo:	392725						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24.85	2.5	25	0	99.4	80	120	24.43	1.70	20	
Barium	22.84	0.1	25	0	91.4	80	120	22.41	1.92	20	
Cadmium	23.89	0.1	25	0	95.6	80	120	23.64	1.04	20	
Chromium	23.21	0.3	25	0	92.8	80	120	22.99	0.939	20	
Lead	23.15	0.25	25	0	92.6	80	120	23.06	0.401	20	
Selenium	23.61	2.5	25	0	94.4	80	120	23.5	0.468	20	
Silver	24.89	0.25	25	0	99.5	80	120	24.55	1.38	20	

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANT REFINERY BLOOM

Date and Time Received:

8/17/2005

Work Order Number 0508180

Received by SSB

Checklist completed by B. Schlippe
Signature

8-17-05
Date

Matrix Carrier name Client drop-off

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? Yes No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? 5° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: *Giant Refining Company - Cimiga*
 Address: *Route 3 Box 7 Gallup, NM 87301*

QA/QC Package: Std Level 4 Other:

Project Name: *Soil sample from 8-3-05 event*

Project #: _____

Project Manager: *Steve Johnson*

Sampler: *Steve Johnson*

Sample Temperature: *50*

Phone #: *505 722 3833*

Fax #: *595 722 0210*

Date: _____

Time: _____

Matrix: _____

Sample I.D. No.: _____

Number/Volume: _____

HEAL No.: *0509160*

Preservative: HgCl₂ HNO₃

Date: *8/16/05*

Time: *11:00*

Matrix: *Soil*

Sample I.D. No.: *Soil 8305*

Number/Volume: *1*

HEAL No.: *0509160*

Relinquished By: (Signature) *Steve Johnson*

Relinquished By: (Signature) _____

Received By: (Signature) *[Signature]*

Received By: (Signature) _____

Date: *8/17/05*

Time: *08:00*

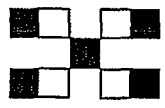
Date: *8/17/05*

Time: *07:58*

ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline Only)	
BTEX + MTBE + TPH (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
EDC (Method 8021)	
8310 (PNA or PAH)	
RCRA 8 Metals	X
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / PCB's (8082)	
8260B (VCA)	X
8270 (Semi-VCA)	
Air Bubbles or Headspace (Y or N)	

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com



Remarks:

OCT 3 2005

OIL CONSERVATION
DIVISION

COVER LETTER

September 06, 2005

Steve Morris
Giant Refining Co
Rt. 3 Box 7
Gallup, NM 87301
TEL: (505) 722-0258
FAX (505) 722-0210

RE: Soil Samples From 8/15/05 Event

Order No.: 0508182

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 8/17/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 06-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0508182
 Project: Soil Samples From 8/15/05 Event
 Lab ID: 0508182-01

Client Sample ID: Soil 8 15 05
 Collection Date: 8/16/2005 11:30:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	0.071	0.050		mg/Kg	1	8/22/2005
Toluene	0.32	0.050		mg/Kg	1	8/22/2005
Ethylbenzene	0.13	0.050		mg/Kg	1	8/22/2005
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/22/2005
1,2,4-Trimethylbenzene	0.46	0.050		mg/Kg	1	8/22/2005
1,3,5-Trimethylbenzene	0.11	0.050		mg/Kg	1	8/22/2005
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/22/2005
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/22/2005
Naphthalene	0.13	0.10		mg/Kg	1	8/22/2005
1-Methylnaphthalene	0.20	0.20		mg/Kg	1	8/22/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/22/2005
Acetone	ND	0.50		mg/Kg	1	8/22/2005
Bromobenzene	ND	0.050		mg/Kg	1	8/22/2005
Bromochloromethane	ND	0.050		mg/Kg	1	8/22/2005
Bromodichloromethane	ND	0.050		mg/Kg	1	8/22/2005
Bromoform	ND	0.050		mg/Kg	1	8/22/2005
Bromomethane	ND	0.10		mg/Kg	1	8/22/2005
2-Butanone	ND	0.50		mg/Kg	1	8/22/2005
Carbon disulfide	ND	0.50		mg/Kg	1	8/22/2005
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/22/2005
Chlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
Chloroethane	ND	0.10		mg/Kg	1	8/22/2005
Chloroform	ND	0.050		mg/Kg	1	8/22/2005
Chloromethane	ND	0.050		mg/Kg	1	8/22/2005
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/22/2005
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/22/2005
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/22/2005
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/22/2005
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/22/2005
Dibromochloromethane	ND	0.050		mg/Kg	1	8/22/2005
Dibromomethane	ND	0.10		mg/Kg	1	8/22/2005
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/22/2005
1,1-Dichloroethane	ND	0.050		mg/Kg	1	8/22/2005
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/22/2005
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/22/2005
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/22/2005
2,2-Dichloropropane	ND	0.050		mg/Kg	1	8/22/2005
1,1-Dichloropropene	ND	0.050		mg/Kg	1	8/22/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0508182
 Project: Soil Samples From 8/15/05 Event
 Lab ID: 0508182-01

Client Sample ID: Soil 8 15 05
 Collection Date: 8/16/2005 11:30:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	0.050		mg/Kg	1	8/22/2005
2-Hexanone	ND	0.50		mg/Kg	1	8/22/2005
Isopropylbenzene	ND	0.050		mg/Kg	1	8/22/2005
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/22/2005
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/22/2005
Methylene chloride	ND	0.15		mg/Kg	1	8/22/2005
n-Butylbenzene	0.062	0.050		mg/Kg	1	8/22/2005
n-Propylbenzene	ND	0.050		mg/Kg	1	8/22/2005
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/22/2005
Styrene	ND	0.050		mg/Kg	1	8/22/2005
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/22/2005
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/22/2005
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/22/2005
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/22/2005
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/22/2005
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/22/2005
1,2,3-Trichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/22/2005
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/22/2005
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/22/2005
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/22/2005
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/22/2005
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/22/2005
Vinyl chloride	ND	0.050		mg/Kg	1	8/22/2005
Xylenes, Total	1.4	0.050		mg/Kg	1	8/22/2005
Surr: 1,2-Dichloroethane-d4	98.5	82.3-110		%REC	1	8/22/2005
Surr: 4-Bromofluorobenzene	103	87.4-120		%REC	1	8/22/2005
Surr: Dibromofluoromethane	102	82.8-110		%REC	1	8/22/2005
Surr: Toluene-d8	91.5	81.5-114		%REC	1	8/22/2005

EPA METHOD 7471: MERCURY

Analyst: CMC

Mercury	0.091	0.033		mg/Kg	1	8/22/2005
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EPA METHOD 6010C: SOIL METALS

Analyst: NMO

Arsenic	ND	2.5		mg/Kg	1	8/24/2005 3:09:46 PM
Barium	450	1.0		mg/Kg	10	8/26/2005 4:51:35 PM
Cadmium	ND	0.10		mg/Kg	1	8/24/2005 3:09:46 PM
Chromium	7.7	0.30		mg/Kg	1	8/24/2005 3:09:46 PM
Lead	5.2	0.25		mg/Kg	1	8/24/2005 3:09:46 PM
Selenium	ND	2.5		mg/Kg	1	8/24/2005 3:09:46 PM
Silver	ND	0.25		mg/Kg	1	8/24/2005 3:09:46 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co
Work Order: 0308182
Project: Soil Samples From 8/15/05 Event

Sample ID MB-8591 Batch ID: 8591 Test Code: SW7471 Units: mg/Kg Analysis Date 8/22/2005 Prep Date 8/22/2005
Client ID: MI-LA254_050822B Run ID: 390821 SeqNo: 390821
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury ND 0.033

Sample ID MB-8583 Batch ID: 8583 Test Code: SW6010A Units: mg/Kg Analysis Date 8/24/2005 2:00:56 PM Prep Date 8/22/2005
Client ID: ICP_050824A Run ID: 392723 SeqNo: 392723
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	2.5
Barium	ND	0.1
Cadmium	ND	0.1
Chromium	ND	0.3
Lead	ND	0.25
Selenium	ND	2.5
Silver	ND	0.25

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

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co

Work Order: 0508182

Project: Soil Samples From 8/15/05 Event

Sample ID mb-8554 Batch ID: 8554 Test Code: SW8260B Units: mg/Kg Analysis Date 8/22/2005 Prep Date 8/18/2005

Client ID: THOR_050822A Run ID: THOR_050822A SeqNo: 390910

Analyte	Result	FCL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0162	0.05									J
Toluene	0.0186	0.05									J
Ethylbenzene	0.0119	0.05									J
Methyl tert-butyl ether (MTBE)	ND	0.05									
1,2,4-Trimethylbenzene	ND	0.05									
1,3,5-Trimethylbenzene	ND	0.05									
1,2-Dichloroethane (EDC)	0.0168	0.05									J
1,2-Dibromoethane (EDB)	ND	0.05									
Naphthalene	ND	0.1									
1-Methylnaphthalene	ND	0.2									
2-Methylnaphthalene	ND	0.2									
Acetone	ND	0.5									
Bromobenzene	ND	0.05									
Bromochloromethane	ND	0.05									
Bromodichloromethane	ND	0.05									
Bromoform	ND	0.05									
Bromomethane	ND	0.1									
2-Butanone	0.4807	0.5									J
Carbon disulfide	ND	0.5									
Carbon tetrachloride	ND	0.1									
Chlorobenzene	ND	0.05									
Chloroethane	ND	0.1									
Chloroform	ND	0.05									
Chloromethane	ND	0.05									
2-Chlorotoluene	ND	0.05									
4-Chlorotoluene	ND	0.05									
cis-1,2-DCE	ND	0.05									

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

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co

Work Order: 0508182

Project: Soil Samples From 8/15/05 Event

cis-1,3-Dichloropropene	ND	0.05	
1,2-Dibromo-3-chloropropane	ND	0.1	
Dibromochloromethane	ND	0.05	
Dibromomethane	ND	0.1	
1,2-Dichlorobenzene	ND	0.05	
1,3-Dichlorobenzene	ND	0.05	
1,4-Dichlorobenzene	ND	0.05	
Dichlorodifluoromethane	ND	0.05	
1,1-Dichloroethane	ND	0.05	
1,1-Dichloroethene	ND	0.05	
1,2-Dichloropropane	0.0162	0.05	J
1,3-Dichloropropane	ND	0.05	
2,2-Dichloropropane	ND	0.05	
1,1-Dichloropropene	ND	0.05	
Hexachlorobutadiene	ND	0.05	
2-Hexanone	ND	0.5	
Isopropylbenzene	ND	0.05	
4-Isopropyltoluene	ND	0.05	
4-Methyl-2-pentanone	0.0973	0.5	J
Methylene chloride	ND	0.15	
n-Butylbenzene	ND	0.05	
n-Propylbenzene	ND	0.05	
sec-Butylbenzene	ND	0.05	
Styrene	ND	0.05	
tert-Butylbenzene	ND	0.05	
1,1,1,2-Tetrachloroethane	ND	0.05	
1,1,2,2-Tetrachloroethane	ND	0.05	
Tetrachloroethene (PCE)	0.0231	0.05	J
trans-1,2-DCE	ND	0.05	
trans-1,3-Dichloropropene	ND	0.05	
1,2,3-Trichlorobenzene	ND	0.05	
1,2,4-Trichlorobenzene	0.0057	0.05	J
1,1,1-Trichloroethane	ND	0.05	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
2

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co

Work Order: 0508182

Project: Soil Samples From 8/15/05 Event

1,1,2-Trichloroethane	ND	0.05							
Trichloroethene (TCE)	ND	0.05							
Trichlorofluoromethane	ND	0.05							
1,2,3-Trichloropropane	ND	0.1							
Vinyl chloride	ND	0.05							
Xylenes, Total	ND	0.05							
Surr: 1,2-Dichloroethane-04	0.5414	0	0.5	0	108	82.3	110	0	0
Surr: 4-Bromofluorobenzene	0.5253	0	0.5	0	105	87.4	120	0	0
Surr: Dibromofluoromethane	0.5481	0	0.5	0	110	82.8	110	0	0
Surr: Toluene-08	0.4536	0	0.5	0	90.7	81.5	114	0	0

6/10

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

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

QC SUMMARY REPORT
Sample Duplicate

CLIENT: Giant Refining Co

Work Order: 0508182

Project: Soil Samples From 8/15/05 Event

Sample ID	0508182-01B DUP	Batch ID	8583	Test Code	SW6010A	Units	mg/Kg	Analysis Date	8/24/2005 3:12:14 PM	Prep Date	8/22/2005
Client ID	Soil 8 15 05	Run ID	ICP_050824A	SeqNo	392739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.005	2.4	0	0	0	0	0	1.832	0	30	J
Cadmium	ND	0.097	0	0	0	0	0	0	0	30	
Chromium	6.18	0.29	0	0	0	0	0	7.707	22.0	30	
Lead	3.836	0.24	0	0	0	0	0	5.232	30.8	30	R
Selenium	ND	2.4	0	0	0	0	0	0	0	30	
Silver	ND	0.24	0	0	0	0	0	0	0	30	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 06-Sep-05

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: Giant Refining Co
Work Order: 0508182
Project: Soil Samples From 8/15/05 Event

Sample ID	ics-8554	Batch ID:	8554	Test Code:	SW8260B	Units:	mg/Kg	Analysis Date	8/22/2005	SeqNo:	390944	Prep Date	8/18/2005
Client ID:		Run ID:	THOR_050822A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result		0.05	1	0.0162	95.9	84	119	0			
Benzene		0.9753		0.05	1	0.0186	91.3	88.4	124	0			
Toluene		0.9313		0.05	1	0	110	93.2	120	0			
Chlorobenzene		1.105		0.05	1	0	95.0	59	122	0			
1,1-Dichloroethene		0.9496		0.05	1	0	76.9	69.4	120	0			
Trichloroethene (TCE)		0.7693		0.05	1	0							

Sample ID	icsd-8554	Batch ID:	8554	Test Code:	SW8260B	Units:	mg/Kg	Analysis Date	8/22/2005	SeqNo:	390946	Prep Date	8/18/2005
Client ID:		Run ID:	THOR_050822A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result		0.05	1	0.0162	99.5	84	119	0.9753	3.61	20	
Benzene		1.011		0.05	1	0.0186	89.9	88.4	124	0.9313	1.45	20	
Toluene		0.9179		0.05	1	0	100	93.2	120	1.105	9.85	20	
Chlorobenzene		1.001		0.05	1	0	94.1	59	122	0.9496	0.910	20	
1,1-Dichloroethene		0.941		0.05	1	0	79.5	69.4	120	0.7693	3.32	20	
Trichloroethene (TCE)		0.7953		0.05	1	0							

Sample ID	LCS-8591	Batch ID:	8591	Test Code:	SW7471	Units:	mg/Kg	Analysis Date	8/22/2005	SeqNo:	390822	Prep Date	8/22/2005
Client ID:		Run ID:	MI-LA254_050822B	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result		0.033	0.1667	0	91.9	75	125	0			
Mercury		0.1532		0.033	0.1667	0							

Sample ID	LCSD-8591	Batch ID:	8591	Test Code:	SW7471	Units:	mg/Kg	Analysis Date	8/22/2005	SeqNo:	390837	Prep Date	8/22/2005
Client ID:		Run ID:	MI-LA254_050822B	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result		0.033	0.1667	0	93.5	75	125	0.1532	1.70	20	
Mercury		0.1558		0.033	0.1667	0							

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
 Work Order: 0508182
 Project: Soil Samples From 8/15/05 Event

Sample ID	LCS-8583	Batch ID: 8583	Test Code: SW6010A	Units: mg/Kg	Analysis Date	8/24/2005 2:03:59 PM	Prep Date	8/22/2005			
Client ID:		Run ID:	ICP_050824A		SeqNo:	392724					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24.43	2.5	25	0	97.7	80	120	0			
Barium	22.41	0.1	25	0	89.6	80	120	0			
Cadmium	23.64	0.1	25	0	94.6	80	120	0			
Chromium	22.99	0.3	25	0	92.0	80	120	0			
Lead	23.06	0.25	25	0	92.2	80	120	0			
Selenium	23.5	2.5	25	0	94.0	80	120	0			
Silver	24.55	0.25	25	0	98.2	80	120	0			

Sample ID	LCSD-8583	Batch ID: 8583	Test Code: SW6010A	Units: mg/Kg	Analysis Date	8/24/2005 2:07:14 PM	Prep Date	8/22/2005			
Client ID:		Run ID:	ICP_050824A		SeqNo:	392725					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24.85	2.5	25	0	99.4	80	120	24.43	1.70	20	
Barium	22.84	0.1	25	0	91.4	80	120	22.41	1.92	20	
Cadmium	23.89	0.1	25	0	95.6	80	120	23.64	1.04	20	
Chromium	23.21	0.3	25	0	92.8	80	120	22.99	0.939	20	
Lead	23.15	0.25	25	0	92.6	80	120	23.06	0.401	20	
Selenium	23.61	2.5	25	0	94.4	80	120	23.5	0.468	20	
Silver	24.89	0.25	25	0	99.5	80	120	24.55	1.38	20	

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

8/17/2005

Work Order Number 0508182

Received by SSB

Checklist completed by

M. Schlegel
Signature

8-17-05
Date

Matrix

Carrier name Client drop-off

- | | | | | |
|---|--|------------------------------|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Not Shipped <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |

Container/Temp Blank temperature?

5°

4° C ± 2 Acceptable

If given sufficient time to cool.

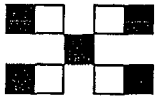
COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com

CHAIN-OF-CUSTODY RECORD

Client: *Giant Refining Company - Tinaja*
 Address: *Road 3 Box 7 Gallup, NM 87301*
 Project Name: *Soil samples from 8-15-05 event*
 Project #: _____
 Project Manager: *Steve Albino*
 Sampler: *Steve Albino*
 Sample Temperature: *50*

Phone #: *505 722 3833*
 Fax #: *505 722 0210*

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
<i>8/16/05</i>	<i>1130</i>	<i>Soil</i>	<i>Soil 81505</i>				<i>5588182 -1</i>

Date: *8/17/05* Time: *0800*
 Date: _____ Time: _____
 Relinquished By: (Signature) *Steve Albino*
 Relinquished By: (Signature) _____
 Received By: (Signature) *Steve Albino*
 Received By: (Signature) _____

8/17/05
08:02

ANALYSIS REQUEST

Analysis Method	Requested
BTEX + MTBE + TPH (Gasoline Only)	
BTEX + MTBE + TPH (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
EDC (Method 8021)	
8310 (PNA or PAH)	
RCRA Metals	X
Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	
8081 Pesticides / PCB's (8082)	
82608 (VDA)	X
8270 (Semi-VDA)	
Air Bubbles or Headspace (Y or N)	

Remarks:



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

Certified Mail: 7004 2510 0005 1641 4521

September 1, 2005

**RE: Giant Refining Company, Bloomfield Refinery
EPA ID# NMD089416416**

Dear Mr. Price,

Please find attached analytical results for the August 9, 2005 sampling event for wells MW #48 and MW #49 on the river terrace at the Giant Refining facility. Both wells were included in the Annual Sampling Event and therefore followed guidelines from the Corrective Measures Study and Corrective Measures Implementation letter dated January 6, 2003. In conjunction, OCD guidance was followed per the Site Investigation and Abatement Plan letter dated December 30, 2002. These results will be included in the Annual Report. Note that the results for well MW #49, located down-gradient of the barrier wall, had a detection of benzene at a concentration of 93 ug/L. We will continue to monitor both wells on a monthly basis and evaluate the concentration trends.

The third quarter 2005 sampling event for the San Juan River was conducted July 19, 2005. Analytical results are enclosed with this packet. There was not an exceedance of any WQCC standard or EPA maximum contaminant level during this sampling event.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Hurtado".

Cindy Hurtado
Environmental Coordinator
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

PHONE
505-632-8013
FAX
505-632-3911

50 ROAD 4990
P.O. BOX 159
BLOOMFIELD
NEW MEXICO
87413

COVER LETTER

August 05, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Sampling 3rd Qtr. 2005

Order No.: 0507181

Dear Cindy Hurtado:


Hall Environmental Analysis Laboratory received 5 samples on 7/20/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,


Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-01

Client Sample ID: River Upstream
 Collection Date: 7/19/2005 10:40:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Fluoride	0.20	0.10		mg/L	1	7/20/2005
Chloride	3.6	0.10		mg/L	1	7/20/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	7/20/2005
Bromide	ND	0.50		mg/L	1	7/20/2005
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	7/20/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	7/20/2005
Sulfate	74	0.50		mg/L	1	7/20/2005
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
Alkalinity, Total (As CaCO3)	99	2.0		mg/L CaCO3	1	7/28/2005
Carbonate	2.0	2.0		mg/L CaCO3	1	7/28/2005
Bicarbonate	97	2.0		mg/L CaCO3	1	7/28/2005
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/22/2005 4:14:41 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/22/2005 4:14:41 AM
Surr: DNOP	124	58-140		%REC	1	7/22/2005 4:14:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/22/2005 1:36:47 AM
Surr: BFB	92.1	78.3-120		%REC	1	7/22/2005 1:36:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/22/2005 1:36:47 AM
Benzene	ND	0.50		µg/L	1	7/22/2005 1:36:47 AM
Toluene	ND	0.50		µg/L	1	7/22/2005 1:36:47 AM
Ethylbenzene	ND	0.50		µg/L	1	7/22/2005 1:36:47 AM
Xylenes, Total	ND	0.50		µg/L	1	7/22/2005 1:36:47 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	10		µg/L	1	7/27/2005
Acenaphthylene	ND	10		µg/L	1	7/27/2005
Aniline	ND	10		µg/L	1	7/27/2005
Anthracene	ND	10		µg/L	1	7/27/2005
Azobenzene	ND	10		µg/L	1	7/27/2005
Benz(a)anthracene	ND	15		µg/L	1	7/27/2005
Benzo(a)pyrene	ND	10		µg/L	1	7/27/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	7/27/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	7/27/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	7/27/2005
Benzoic acid	ND	50		µg/L	1	7/27/2005
Benzyl alcohol	ND	20		µg/L	1	7/27/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	7/27/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-01

Client Sample ID: River Upstream
 Collection Date: 7/19/2005 10:40:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Bis(2-chloroethyl)ether	ND	15		µg/L	1	7/27/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	7/27/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	7/27/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	7/27/2005
Butyl benzyl phthalate	ND	15		µg/L	1	7/27/2005
Carbazole	ND	10		µg/L	1	7/27/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	7/27/2005
4-Chloroaniline	ND	20		µg/L	1	7/27/2005
2-Chloronaphthalene	ND	10		µg/L	1	7/27/2005
2-Chlorophenol	ND	10		µg/L	1	7/27/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	7/27/2005
Chrysene	ND	15		µg/L	1	7/27/2005
Di-n-butyl phthalate	ND	10		µg/L	1	7/27/2005
Di-n-octyl phthalate	ND	15		µg/L	1	7/27/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	7/27/2005
Dibenzofuran	ND	10		µg/L	1	7/27/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	7/27/2005
Diethyl phthalate	ND	10		µg/L	1	7/27/2005
Dimethyl phthalate	ND	10		µg/L	1	7/27/2005
2,4-Dichlorophenol	ND	10		µg/L	1	7/27/2005
2,4-Dimethylphenol	ND	10		µg/L	1	7/27/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	7/27/2005
2,4-Dinitrophenol	ND	50		µg/L	1	7/27/2005
2,4-Dinitrotoluene	ND	10		µg/L	1	7/27/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	7/27/2005
Fluoranthene	ND	10		µg/L	1	7/27/2005
Fluorene	ND	10		µg/L	1	7/27/2005
Hexachlorobenzene	ND	10		µg/L	1	7/27/2005
Hexachlorobutadiene	ND	10		µg/L	1	7/27/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	7/27/2005
Hexachloroethane	ND	10		µg/L	1	7/27/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/27/2005
Isophorone	ND	10		µg/L	1	7/27/2005
2-Methylnaphthalene	ND	10		µg/L	1	7/27/2005
2-Methylphenol	ND	15		µg/L	1	7/27/2005
3+4-Methylphenol	ND	10		µg/L	1	7/27/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/27/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	7/27/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/27/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
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Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-01

Client Sample ID: River Upstream
 Collection Date: 7/19/2005 10:40:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Naphthalene	ND	10		µg/L	1	7/27/2005
2-Nitroaniline	ND	50		µg/L	1	7/27/2005
3-Nitroaniline	ND	50		µg/L	1	7/27/2005
4-Nitroaniline	ND	20		µg/L	1	7/27/2005
Nitrobenzene	ND	10		µg/L	1	7/27/2005
2-Nitrophenol	ND	15		µg/L	1	7/27/2005
4-Nitrophenol	ND	50		µg/L	1	7/27/2005
Pentachlorophenol	ND	50		µg/L	1	7/27/2005
Phenanthrene	ND	10		µg/L	1	7/27/2005
Phenol	ND	10		µg/L	1	7/27/2005
Pyrene	ND	15		µg/L	1	7/27/2005
Pyridine	ND	30		µg/L	1	7/27/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/27/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/27/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	7/27/2005
Surr: 2,4,6-Tribromophenol	21.3	16.6-150		%REC	1	7/27/2005
Surr: 2-Fluorobiphenyl	44.6	19.6-134		%REC	1	7/27/2005
Surr: 2-Fluorophenol	31.8	9.54-113		%REC	1	7/27/2005
Surr: 4-Terphenyl-d14	50.2	22.7-145		%REC	1	7/27/2005
Surr: Nitrobenzene-d5	44.0	14.6-134		%REC	1	7/27/2005
Surr: Phenol-d6	23.8	10.7-80.3		%REC	1	7/27/2005

EPA 120.1: SPECIFIC CONDUCTANCE

Analyst: DK

Specific Conductance 350 0.010 µmhos/cm 1 7/21/2005

EPA METHOD 7470: MERCURY

Analyst: CMC

Mercury 0.00022 0.00020 mg/L 1 7/28/2005

EPA METHOD 6010C: DISSOLVED METALS

Analyst: NMO

Arsenic	ND	0.020		mg/L	1	7/25/2005 10:28:09 AM
Barium	0.071	0.0020		mg/L	1	7/25/2005 10:28:09 AM
Cadmium	ND	0.0020		mg/L	1	7/25/2005 10:28:09 AM
Calcium	36	1.0		mg/L	1	7/26/2005 9:38:19 AM
Chromium	ND	0.0060		mg/L	1	7/25/2005 10:28:09 AM
Copper	ND	0.0060		mg/L	1	7/25/2005 10:28:09 AM
Iron	ND	0.020		mg/L	1	7/25/2005 10:28:09 AM
Lead	ND	0.0050		mg/L	1	7/25/2005 10:28:09 AM
Magnesium	6.7	1.0		mg/L	1	7/26/2005 9:38:19 AM
Manganese	0.035	0.0020		mg/L	1	7/25/2005 10:28:09 AM
Potassium	2.0	1.0		mg/L	1	8/1/2005 1:45:21 PM
Selenium	ND	0.050		mg/L	1	7/25/2005 10:28:09 AM
Silver	ND	0.0050		mg/L	1	7/25/2005 10:28:09 AM
Sodium	22	1.0		mg/L	1	7/26/2005 9:38:19 AM
Uranium	ND	0.10		mg/L	1	7/25/2005 10:28:09 AM

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Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
Lab Order: 0507181
Project: River Sampling 3rd Qtr. 2005
Lab ID: 0507181-01

Client Sample ID: River Upstream
Collection Date: 7/19/2005 10:40:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Zinc	0.029	0.0050		mg/L	1	7/26/2005 9:38:19 AM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	7/26/2005 11:01:19 AM
Barium	0.070	0.020		mg/L	1	7/26/2005 11:01:19 AM
Cadmium	ND	0.0020		mg/L	1	7/26/2005 11:01:19 AM
Chromium	ND	0.0060		mg/L	1	7/26/2005 11:01:19 AM
Lead	ND	0.0050		mg/L	1	7/26/2005 11:01:19 AM
Selenium	ND	0.050		mg/L	1	7/26/2005 11:01:19 AM
Silver	ND	0.0050		mg/L	1	7/26/2005 11:01:19 AM
EPA METHOD 160.1: TDS						Analyst: DK
Total Dissolved Solids	250	50		mg/L	1	7/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
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 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
Lab Order: 0507181
Project: River Sampling 3rd Qtr. 2005
Lab ID: 0507181-02

Client Sample ID: River Downstream
Collection Date: 7/19/2005 11:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Fluoride	0.22	0.10		mg/L	1	7/20/2005
Chloride	3.6	0.10		mg/L	1	7/20/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	7/20/2005
Bromide	ND	0.50		mg/L	1	7/20/2005
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	7/20/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	7/20/2005
Sulfate	80	0.50		mg/L	1	7/20/2005
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
Alkalinity, Total (As CaCO3)	99	2.0		mg/L CaCO3	1	7/28/2005
Carbonate	2.0	2.0		mg/L CaCO3	1	7/28/2005
Bicarbonate	97	2.0		mg/L CaCO3	1	7/28/2005
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/22/2005 5:20:17 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/22/2005 5:20:17 AM
Surr: DNOP	97.4	58-140		%REC	1	7/22/2005 5:20:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/22/2005 2:07:21 AM
Surr: BFB	99.0	78.3-120		%REC	1	7/22/2005 2:07:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/22/2005 2:07:21 AM
Benzene	ND	0.50		µg/L	1	7/22/2005 2:07:21 AM
Toluene	ND	0.50		µg/L	1	7/22/2005 2:07:21 AM
Ethylbenzene	ND	0.50		µg/L	1	7/22/2005 2:07:21 AM
Xylenes, Total	ND	0.50		µg/L	1	7/22/2005 2:07:21 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	10		µg/L	1	7/27/2005
Acenaphthylene	ND	10		µg/L	1	7/27/2005
Aniline	ND	10		µg/L	1	7/27/2005
Anthracene	ND	10		µg/L	1	7/27/2005
Azobenzene	ND	10		µg/L	1	7/27/2005
Benz(a)anthracene	ND	15		µg/L	1	7/27/2005
Benzo(a)pyrene	ND	10		µg/L	1	7/27/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	7/27/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	7/27/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	7/27/2005
Benzoic acid	ND	50		µg/L	1	7/27/2005
Benzyl alcohol	ND	20		µg/L	1	7/27/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	7/27/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-02

Client Sample ID: River Downstream
 Collection Date: 7/19/2005 11:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Bis(2-chloroethyl)ether	ND	15		µg/L	1	7/27/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	7/27/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	7/27/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	7/27/2005
Butyl benzyl phthalate	ND	15		µg/L	1	7/27/2005
Carbazole	ND	10		µg/L	1	7/27/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	7/27/2005
4-Chloroaniline	ND	20		µg/L	1	7/27/2005
2-Chloronaphthalene	ND	10		µg/L	1	7/27/2005
2-Chlorophenol	ND	10		µg/L	1	7/27/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	7/27/2005
Chrysene	ND	15		µg/L	1	7/27/2005
Di-n-butyl phthalate	ND	10		µg/L	1	7/27/2005
Di-n-octyl phthalate	ND	15		µg/L	1	7/27/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	7/27/2005
Dibenzofuran	ND	10		µg/L	1	7/27/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	7/27/2005
Diethyl phthalate	ND	10		µg/L	1	7/27/2005
Dimethyl phthalate	ND	10		µg/L	1	7/27/2005
2,4-Dichlorophenol	ND	10		µg/L	1	7/27/2005
2,4-Dimethylphenol	ND	10		µg/L	1	7/27/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	7/27/2005
2,4-Dinitrophenol	ND	50		µg/L	1	7/27/2005
2,4-Dinitrotoluene	ND	10		µg/L	1	7/27/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	7/27/2005
Fluoranthene	ND	10		µg/L	1	7/27/2005
Fluorene	ND	10		µg/L	1	7/27/2005
Hexachlorobenzene	ND	10		µg/L	1	7/27/2005
Hexachlorobutadiene	ND	10		µg/L	1	7/27/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	7/27/2005
Hexachloroethane	ND	10		µg/L	1	7/27/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/27/2005
Isophorone	ND	10		µg/L	1	7/27/2005
2-Methylnaphthalene	ND	10		µg/L	1	7/27/2005
2-Methylphenol	ND	15		µg/L	1	7/27/2005
3+4-Methylphenol	ND	10		µg/L	1	7/27/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/27/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	7/27/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/27/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
Lab Order: 0507181
Project: River Sampling 3rd Qtr. 2005
Lab ID: 0507181-02

Client Sample ID: River Downstream
Collection Date: 7/19/2005 11:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Naphthalene	ND	10		µg/L	1	7/27/2005
2-Nitroaniline	ND	50		µg/L	1	7/27/2005
3-Nitroaniline	ND	50		µg/L	1	7/27/2005
4-Nitroaniline	ND	20		µg/L	1	7/27/2005
Nitrobenzene	ND	10		µg/L	1	7/27/2005
2-Nitrophenol	ND	15		µg/L	1	7/27/2005
4-Nitrophenol	ND	50		µg/L	1	7/27/2005
Pentachlorophenol	ND	50		µg/L	1	7/27/2005
Phenanthrene	ND	10		µg/L	1	7/27/2005
Phenol	ND	10		µg/L	1	7/27/2005
Pyrene	ND	15		µg/L	1	7/27/2005
Pyridine	ND	30		µg/L	1	7/27/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/27/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/27/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	7/27/2005
Surr: 2,4,6-Tribromophenol	29.7	16.6-150		%REC	1	7/27/2005
Surr: 2-Fluorobiphenyl	60.3	19.6-134		%REC	1	7/27/2005
Surr: 2-Fluorophenol	44.0	9.54-113		%REC	1	7/27/2005
Surr: 4-Terphenyl-d14	60.2	22.7-145		%REC	1	7/27/2005
Surr: Nitrobenzene-d5	60.8	14.6-134		%REC	1	7/27/2005
Surr: Phenol-d6	31.9	10.7-80.3		%REC	1	7/27/2005
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DK
Specific Conductance	380	0.010		µmhos/cm	1	7/21/2005
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	7/28/2005
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	7/25/2005 10:31:07 AM
Barium	0.070	0.0020		mg/L	1	7/25/2005 10:31:07 AM
Cadmium	ND	0.0020		mg/L	1	7/25/2005 10:31:07 AM
Calcium	39	1.0		mg/L	1	7/26/2005 9:40:51 AM
Chromium	ND	0.0060		mg/L	1	7/25/2005 10:31:07 AM
Copper	ND	0.0060		mg/L	1	7/25/2005 10:31:07 AM
Iron	ND	0.020		mg/L	1	7/25/2005 10:31:07 AM
Lead	ND	0.0050		mg/L	1	7/25/2005 10:31:07 AM
Magnesium	6.9	1.0		mg/L	1	7/26/2005 9:40:51 AM
Manganese	0.034	0.0020		mg/L	1	7/25/2005 10:31:07 AM
Potassium	2.1	1.0		mg/L	1	8/1/2005 1:47:34 PM
Selenium	ND	0.050		mg/L	1	7/25/2005 10:31:07 AM
Silver	ND	0.0050		mg/L	1	7/25/2005 10:31:07 AM
Sodium	23	1.0		mg/L	1	7/26/2005 9:40:51 AM
Uranium	ND	0.10		mg/L	1	7/25/2005 10:31:07 AM

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining

Client Sample ID: River Downstream

Lab Order: 0507181

Collection Date: 7/19/2005 11:00:00 AM

Project: River Sampling 3rd Qtr. 2005

Lab ID: 0507181-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Zinc	0.015	0.0050		mg/L	1	7/26/2005 9:40:51 AM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	7/26/2005 11:04:19 AM
Barium	0.070	0.020		mg/L	1	7/26/2005 11:04:19 AM
Cadmium	ND	0.0020		mg/L	1	7/26/2005 11:04:19 AM
Chromium	ND	0.0060		mg/L	1	7/26/2005 11:04:19 AM
Lead	ND	0.0050		mg/L	1	7/26/2005 11:04:19 AM
Selenium	ND	0.050		mg/L	1	7/26/2005 11:04:19 AM
Silver	ND	0.0050		mg/L	1	7/26/2005 11:04:19 AM
EPA METHOD 160.1: TDS						Analyst: DK
Total Dissolved Solids	250	50		mg/L	1	7/22/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
Lab Order: 0507181
Project: River Sampling 3rd Qtr. 2005
Lab ID: 0507181-03

Client Sample ID: N of MW #45
Collection Date: 7/19/2005 10:15:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Fluoride	0.20	0.10		mg/L	1	7/20/2005
Chloride	3.5	0.10		mg/L	1	7/20/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	7/20/2005
Bromide	ND	0.50		mg/L	1	7/20/2005
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	7/20/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	7/20/2005
Sulfate	74	0.50		mg/L	1	7/20/2005
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
Alkalinity, Total (As CaCO3)	97	2.0		mg/L CaCO3	1	7/28/2005
Carbonate	ND	2.0		mg/L CaCO3	1	7/28/2005
Bicarbonate	97	2.0		mg/L CaCO3	1	7/28/2005
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/22/2005 5:53:05 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/22/2005 5:53:05 AM
Surr: DNOP	104	58-140		%REC	1	7/22/2005 5:53:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/22/2005 2:37:42 AM
Surr: BFB	96.4	78.3-120		%REC	1	7/22/2005 2:37:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/22/2005 2:37:42 AM
Benzene	ND	0.50		µg/L	1	7/22/2005 2:37:42 AM
Toluene	ND	0.50		µg/L	1	7/22/2005 2:37:42 AM
Ethylbenzene	ND	0.50		µg/L	1	7/22/2005 2:37:42 AM
Xylenes, Total	0.61	0.50		µg/L	1	7/22/2005 2:37:42 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	10		µg/L	1	7/27/2005
Acenaphthylene	ND	10		µg/L	1	7/27/2005
Aniline	ND	10		µg/L	1	7/27/2005
Anthracene	ND	10		µg/L	1	7/27/2005
Azobenzene	ND	10		µg/L	1	7/27/2005
Benz(a)anthracene	ND	15		µg/L	1	7/27/2005
Benzo(a)pyrene	ND	10		µg/L	1	7/27/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	7/27/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	7/27/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	7/27/2005
Benzoic acid	ND	50		µg/L	1	7/27/2005
Benzyl alcohol	ND	20		µg/L	1	7/27/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	7/27/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-03

Client Sample ID: N of MW #45
 Collection Date: 7/19/2005 10:15:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Bis(2-chloroethyl)ether	ND	15		µg/L	1	7/27/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	7/27/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	7/27/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	7/27/2005
Butyl benzyl phthalate	ND	15		µg/L	1	7/27/2005
Carbazole	ND	10		µg/L	1	7/27/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	7/27/2005
4-Chloroaniline	ND	20		µg/L	1	7/27/2005
2-Chloronaphthalene	ND	10		µg/L	1	7/27/2005
2-Chlorophenol	ND	10		µg/L	1	7/27/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	7/27/2005
Chrysene	ND	15		µg/L	1	7/27/2005
Di-n-butyl phthalate	ND	10		µg/L	1	7/27/2005
Di-n-octyl phthalate	ND	15		µg/L	1	7/27/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	7/27/2005
Dibenzofuran	ND	10		µg/L	1	7/27/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	7/27/2005
Diethyl phthalate	ND	10		µg/L	1	7/27/2005
Dimethyl phthalate	ND	10		µg/L	1	7/27/2005
2,4-Dichlorophenol	ND	10		µg/L	1	7/27/2005
2,4-Dimethylphenol	ND	10		µg/L	1	7/27/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	7/27/2005
2,4-Dinitrophenol	ND	50		µg/L	1	7/27/2005
2,4-Dinitrotoluene	ND	10		µg/L	1	7/27/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	7/27/2005
Fluoranthene	ND	10		µg/L	1	7/27/2005
Fluorene	ND	10		µg/L	1	7/27/2005
Hexachlorobenzene	ND	10		µg/L	1	7/27/2005
Hexachlorobutadiene	ND	10		µg/L	1	7/27/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	7/27/2005
Hexachloroethane	ND	10		µg/L	1	7/27/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/27/2005
Isophorone	ND	10		µg/L	1	7/27/2005
2-Methylnaphthalene	ND	10		µg/L	1	7/27/2005
2-Methylphenol	ND	15		µg/L	1	7/27/2005
3+4-Methylphenol	ND	10		µg/L	1	7/27/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/27/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	7/27/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/27/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-03

Client Sample ID: N of MW #45
 Collection Date: 7/19/2005 10:15:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Naphthalene	ND	10		µg/L	1	7/27/2005
2-Nitroaniline	ND	50		µg/L	1	7/27/2005
3-Nitroaniline	ND	50		µg/L	1	7/27/2005
4-Nitroaniline	ND	20		µg/L	1	7/27/2005
Nitrobenzene	ND	10		µg/L	1	7/27/2005
2-Nitrophenol	ND	15		µg/L	1	7/27/2005
4-Nitrophenol	ND	50		µg/L	1	7/27/2005
Pentachlorophenol	ND	50		µg/L	1	7/27/2005
Phenanthrene	ND	10		µg/L	1	7/27/2005
Phenol	ND	10		µg/L	1	7/27/2005
Pyrene	ND	15		µg/L	1	7/27/2005
Pyridine	ND	30		µg/L	1	7/27/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/27/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/27/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	7/27/2005
Surr: 2,4,6-Tribromophenol	70.7	16.6-150		%REC	1	7/27/2005
Surr: 2-Fluorobiphenyl	116	19.6-134		%REC	1	7/27/2005
Surr: 2-Fluorophenol	81.6	9.54-113		%REC	1	7/27/2005
Surr: 4-Terphenyl-d14	127	22.7-145		%REC	1	7/27/2005
Surr: Nitrobenzene-d5	117	14.6-134		%REC	1	7/27/2005
Surr: Phenol-d6	61.1	10.7-80.3		%REC	1	7/27/2005
EPA 120.1: SPECIFIC CONDUCTANCE						
Specific Conductance	340	0.010		µmhos/cm	1	7/21/2005
EPA METHOD 7470: MERCURY						
Mercury	ND	0.00020		mg/L	1	7/28/2005
EPA METHOD 6010C: DISSOLVED METALS						
Arsenic	ND	0.020		mg/L	1	7/25/2005 10:34:06 AM
Barium	0.070	0.0020		mg/L	1	7/25/2005 10:34:06 AM
Cadmium	ND	0.0020		mg/L	1	7/25/2005 10:34:06 AM
Calcium	36	1.0		mg/L	1	7/26/2005 9:42:46 AM
Chromium	ND	0.0060		mg/L	1	7/25/2005 10:34:06 AM
Copper	ND	0.0060		mg/L	1	7/25/2005 10:34:06 AM
Iron	ND	0.020		mg/L	1	7/25/2005 10:34:06 AM
Lead	ND	0.0050		mg/L	1	7/25/2005 10:34:06 AM
Magnesium	6.6	1.0		mg/L	1	7/26/2005 9:42:46 AM
Manganese	0.020	0.0020		mg/L	1	7/25/2005 10:34:06 AM
Potassium	2.0	1.0		mg/L	1	8/1/2005 1:50:40 PM
Selenium	ND	0.050		mg/L	1	7/25/2005 10:34:06 AM
Silver	ND	0.0050		mg/L	1	7/25/2005 10:34:06 AM
Sodium	21	1.0		mg/L	1	7/26/2005 9:42:46 AM
Uranium	ND	0.10		mg/L	1	7/25/2005 10:34:06 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-03

Client Sample ID: N of MW #45
 Collection Date: 7/19/2005 10:15:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Zinc	0.014	0.0050		mg/L	1	7/26/2005 9:42:46 AM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	7/26/2005 11:07:18 AM
Barium	0.069	0.020		mg/L	1	7/26/2005 11:07:18 AM
Cadmium	ND	0.0020		mg/L	1	7/26/2005 11:07:18 AM
Chromium	ND	0.0060		mg/L	1	7/26/2005 11:07:18 AM
Lead	ND	0.0050		mg/L	1	7/26/2005 11:07:18 AM
Selenium	ND	0.050		mg/L	1	7/26/2005 11:07:18 AM
Silver	ND	0.0050		mg/L	1	7/26/2005 11:07:18 AM
EPA METHOD 160.1: TDS						Analyst: DK
Total Dissolved Solids	230	50		mg/L	1	7/22/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-04

Client Sample ID: N of MW #46
 Collection Date: 7/19/2005 9:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Fluoride	0.21	0.10		mg/L	1	7/20/2005
Chloride	3.6	0.10		mg/L	1	7/20/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	7/20/2005
Bromide	ND	0.50		mg/L	1	7/20/2005
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	7/20/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	7/20/2005
Sulfate	73	0.50		mg/L	1	7/20/2005
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
Alkalinity, Total (As CaCO3)	100	2.0		mg/L CaCO3	1	7/28/2005
Carbonate	ND	2.0		mg/L CaCO3	1	7/28/2005
Bicarbonate	100	2.0		mg/L CaCO3	1	7/28/2005
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/22/2005 6:25:58 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/22/2005 6:25:58 AM
Surr: DNOP	89.1	58-140		%REC	1	7/22/2005 6:25:58 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/22/2005 3:07:57 AM
Surr: BFB	94.6	78.3-120		%REC	1	7/22/2005 3:07:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/22/2005 3:07:57 AM
Benzene	ND	0.50		µg/L	1	7/22/2005 3:07:57 AM
Toluene	ND	0.50		µg/L	1	7/22/2005 3:07:57 AM
Ethylbenzene	ND	0.50		µg/L	1	7/22/2005 3:07:57 AM
Xylenes, Total	ND	0.50		µg/L	1	7/22/2005 3:07:57 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	10		µg/L	1	7/27/2005
Acenaphthylene	ND	10		µg/L	1	7/27/2005
Aniline	ND	10		µg/L	1	7/27/2005
Anthracene	ND	10		µg/L	1	7/27/2005
Azobenzene	ND	10		µg/L	1	7/27/2005
Benz(a)anthracene	ND	15		µg/L	1	7/27/2005
Benzo(a)pyrene	ND	10		µg/L	1	7/27/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	7/27/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	7/27/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	7/27/2005
Benzoic acid	ND	50		µg/L	1	7/27/2005
Benzyl alcohol	ND	20		µg/L	1	7/27/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	7/27/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-04

Client Sample ID: N of MW #46
 Collection Date: 7/19/2005 9:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Bis(2-chloroethyl)ether	ND	15		µg/L	1	7/27/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	7/27/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	7/27/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	7/27/2005
Butyl benzyl phthalate	ND	15		µg/L	1	7/27/2005
Carbazole	ND	10		µg/L	1	7/27/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	7/27/2005
4-Chloroaniline	ND	20		µg/L	1	7/27/2005
2-Chloronaphthalene	ND	10		µg/L	1	7/27/2005
2-Chlorophenol	ND	10		µg/L	1	7/27/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	7/27/2005
Chrysene	ND	15		µg/L	1	7/27/2005
Di-n-butyl phthalate	ND	10		µg/L	1	7/27/2005
Di-n-octyl phthalate	ND	15		µg/L	1	7/27/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	7/27/2005
Dibenzofuran	ND	10		µg/L	1	7/27/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	7/27/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	7/27/2005
Diethyl phthalate	ND	10		µg/L	1	7/27/2005
Dimethyl phthalate	ND	10		µg/L	1	7/27/2005
2,4-Dichlorophenol	ND	10		µg/L	1	7/27/2005
2,4-Dimethylphenol	ND	10		µg/L	1	7/27/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	7/27/2005
2,4-Dinitrophenol	ND	50		µg/L	1	7/27/2005
2,4-Dinitrotoluene	ND	10		µg/L	1	7/27/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	7/27/2005
Fluoranthene	ND	10		µg/L	1	7/27/2005
Fluorene	ND	10		µg/L	1	7/27/2005
Hexachlorobenzene	ND	10		µg/L	1	7/27/2005
Hexachlorobutadiene	ND	10		µg/L	1	7/27/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	7/27/2005
Hexachloroethane	ND	10		µg/L	1	7/27/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/27/2005
Isophorone	ND	10		µg/L	1	7/27/2005
2-Methylnaphthalene	ND	10		µg/L	1	7/27/2005
2-Methylphenol	ND	15		µg/L	1	7/27/2005
3+4-Methylphenol	ND	10		µg/L	1	7/27/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/27/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	7/27/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/27/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-04

Client Sample ID: N of MW #46
 Collection Date: 7/19/2005 9:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Naphthalene	ND	10		µg/L	1	7/27/2005
2-Nitroaniline	ND	50		µg/L	1	7/27/2005
3-Nitroaniline	ND	50		µg/L	1	7/27/2005
4-Nitroaniline	ND	20		µg/L	1	7/27/2005
Nitrobenzene	ND	10		µg/L	1	7/27/2005
2-Nitrophenol	ND	15		µg/L	1	7/27/2005
4-Nitrophenol	ND	50		µg/L	1	7/27/2005
Pentachlorophenol	ND	50		µg/L	1	7/27/2005
Phenanthrene	ND	10		µg/L	1	7/27/2005
Phenol	ND	10		µg/L	1	7/27/2005
Pyrene	ND	15		µg/L	1	7/27/2005
Pyridine	ND	30		µg/L	1	7/27/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/27/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/27/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	7/27/2005
Surr: 2,4,6-Tribromophenol	45.9	16.6-150		%REC	1	7/27/2005
Surr: 2-Fluorobiphenyl	54.3	19.6-134		%REC	1	7/27/2005
Surr: 2-Fluorophenol	41.8	9.54-113		%REC	1	7/27/2005
Surr: 4-Terphenyl-d14	57.3	22.7-145		%REC	1	7/27/2005
Surr: Nitrobenzene-d5	55.6	14.6-134		%REC	1	7/27/2005
Surr: Phenol-d6	28.9	10.7-80.3		%REC	1	7/27/2005
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DK
Specific Conductance	340	0.010		µmhos/cm	1	7/21/2005
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	7/28/2005
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	7/25/2005 10:37:06 AM
Barium	0.070	0.0020		mg/L	1	7/25/2005 10:37:06 AM
Cadmium	ND	0.0020		mg/L	1	7/25/2005 10:37:06 AM
Calcium	36	1.0		mg/L	1	7/26/2005 9:45:22 AM
Chromium	ND	0.0060		mg/L	1	7/25/2005 10:37:06 AM
Copper	ND	0.0060		mg/L	1	7/25/2005 10:37:06 AM
Iron	0.037	0.020		mg/L	1	7/25/2005 10:37:06 AM
Lead	ND	0.0050		mg/L	1	7/25/2005 10:37:06 AM
Magnesium	6.7	1.0		mg/L	1	7/26/2005 9:45:22 AM
Manganese	0.021	0.0020		mg/L	1	7/25/2005 10:37:06 AM
Potassium	2.0	1.0		mg/L	1	8/1/2005 1:53:41 PM
Selenium	ND	0.050		mg/L	1	7/25/2005 10:37:06 AM
Silver	ND	0.0050		mg/L	1	7/25/2005 10:37:06 AM
Sodium	22	1.0		mg/L	1	7/26/2005 9:45:22 AM
Uranium	ND	0.10		mg/L	1	7/25/2005 10:37:06 AM

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0507181
 Project: River Sampling 3rd Qtr. 2005
 Lab ID: 0507181-04

Client Sample ID: N of MW #46
 Collection Date: 7/19/2005 9:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Zinc	0.045	0.0050		mg/L	1	7/26/2005 9:45:22 AM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	7/26/2005 11:10:16 AM
Barium	0.070	0.020		mg/L	1	7/26/2005 11:10:16 AM
Cadmium	ND	0.0020		mg/L	1	7/26/2005 11:10:16 AM
Chromium	ND	0.0060		mg/L	1	7/26/2005 11:10:16 AM
Lead	ND	0.0050		mg/L	1	7/26/2005 11:10:16 AM
Selenium	ND	0.050		mg/L	1	7/26/2005 11:10:16 AM
Silver	ND	0.0050		mg/L	1	7/26/2005 11:10:16 AM
EPA METHOD 160.1: TDS						Analyst: DK
Total Dissolved Solids	240	50		mg/L	1	7/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

CLIENT: San Juan Refining
Lab Order: 0507181
Project: River Sampling 3rd Qtr. 2005
Lab ID: 0507181-05

Client Sample ID: Trip Blank
Collection Date:
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/22/2005 3:38:09 AM
Surr: BFB	101	78.3-120		%REC	1	7/22/2005 3:38:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/22/2005 3:38:09 AM
Benzene	ND	0.50		µg/L	1	7/22/2005 3:38:09 AM
Toluene	ND	0.50		µg/L	1	7/22/2005 3:38:09 AM
Ethylbenzene	ND	0.50		µg/L	1	7/22/2005 3:38:09 AM
Xylenes, Total	ND	0.50		µg/L	1	7/22/2005 3:38:09 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0507181
Project: River Sampling 3rd Qtr. 2005

Sample ID	MBLK	Batch ID: R16052	Test Code: E300	Units: mg/L	Analysis Date 7/20/2005	Prep Date					
Client ID:		Run ID: LC_050720A			SeqNo: 381430						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1									
Chloride	ND	0.1									
Nitrogen, Nitrite (As N)	ND	0.1									
Bromide	ND	0.5									
Nitrogen, Nitrate (As N)	ND	0.1									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									

Sample ID	MBLK	Batch ID: R16132	Test Code: E310.1	Units: mg/L CaCO3	Analysis Date 7/28/2005	Prep Date					
Client ID:		Run ID: WC_050728C			SeqNo: 383874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2									
Carbonate	ND	2									
Bicarbonate	ND	2									

Sample ID	MB-8382	Batch ID: 8382	Test Code: SW8015	Units: mg/L	Analysis Date 7/22/2005 2:36:12 AM	Prep Date 7/21/2005					
Client ID:		Run ID: FID(17A)_2_050721A			SeqNo: 381978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.129	0	1	0	113	58	140	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
/

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0507181
 Project: River Sampling 3rd Qtr. 2005

Sample ID: Reagent Blank Batch ID: R16066 Test Code: SW8015 Units: mg/L Analysis Date: 7/21/2005 9:25:29 AM Prep Date: SeqNo: 382110

Run ID: PIDFID_050721A

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.0168	0.05	20	0	99.3	78.3	120	0			J
Surr: BFB	19.86	0									

Sample ID: Reagent Blank Batch ID: R16066 Test Code: SW8021 Units: µg/L Analysis Date: 7/21/2005 9:25:29 AM Prep Date: SeqNo: 382069

Run ID: PIDFID_050721A

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									

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

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0507181
 Project: River Sampling 3rd Qtr. 2005

Sample ID MB-8383 Batch ID: 8383 Test Code: SW8270C Units: µg/L Analysis Date 7/27/2005 Prep Date 7/21/2005

Client ID: ELMO_050727A Run ID: PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Aniline	ND	10									
Anthracene	ND	10									
Azobenzene	ND	10									
Benz(a)anthracene	ND	15									
Benzo(a)pyrene	ND	10									
Benzo(b)fluoranthene	ND	10									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Benzoic acid	ND	50									
Benzyl alcohol	ND	20									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	15									
Bis(2-chloroisopropyl)ether	ND	15									
Bis(2-ethylhexyl)phthalate	ND	15									
4-Bromophenyl phenyl ether	ND	10									
Butyl benzyl phthalate	ND	15									
Carbazole	ND	10									
4-Chloro-3-methylphenol	ND	20									
4-Chloroaniline	ND	20									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
4-Chlorophenyl phenyl ether	ND	15									
Chrysene	ND	15									
Di-n-butyl phthalate	ND	10									
Di-n-octyl phthalate	ND	15									
Dibenz(a,h)anthracene	ND	10									

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

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0507181
 Project: River Sampling 3rd Qtr. 2005

Dibenzofuran	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
3,3'-Dichlorobenzidine	ND	15
Diethyl phthalate	ND	10
Dimethyl phthalate	ND	10
2,4-Dichlorophenol	ND	10
2,4-Dimethylphenol	ND	10
4,6-Dinitro-2-methylphenol	ND	50
2,4-Dinitrophenol	ND	50
2,4-Dinitrotoluene	ND	10
2,6-Dinitrotoluene	ND	10
Fluoranthene	ND	10
Fluorene	ND	10
Hexachlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Hexachlorocyclopentadiene	ND	10
Hexachloroethane	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Isophorone	ND	10
2-Methylnaphthalene	ND	10
2-Methylphenol	ND	15
3+4-Methylphenol	ND	10
N-Nitrosodi-n-propylamine	ND	10
N-Nitrosodimethylamine	ND	10
N-Nitrosodiphenylamine	ND	10
Naphthalene	ND	10
2-Nitroaniline	ND	50
3-Nitroaniline	ND	50
4-Nitroaniline	ND	20
Nitrobenzene	ND	10
2-Nitrophenol	ND	15

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
Work Order: 0507181
Project: River Sampling 3rd Qtr. 2005

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	ND	50									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	15									
Pyridine	ND	30									
1,2,4-Trichlorobenzene	ND	10									
2,4,5-Trichlorophenol	ND	10									
2,4,6-Trichlorophenol	ND	15									
Surr: 2,4,6-Tribromophenol	147.6	0	200	0	73.8	16.6	115	0			
Surr: 2-Fluorobiphenyl	70	0	100	0	70.0	37	95.7	0			
Surr: 2-Fluorophenol	119	0	200	0	59.5	9.54	89.8	0			
Surr: 4-Terphenyl-d14	63.04	0	100	0	63.0	51.2	125	0			
Surr: Nitrobenzene-d5	73.64	0	100	0	73.6	38	106	0			
Surr: Phenol-d6	86.34	0	200	0	43.2	10.7	63.4	0			

Sample ID: MB-8427 **Batch ID:** 8427 **Test Code:** SW7470 **Units:** mg/L **Analysis Date:** 7/28/2005 **Prep Date:** 7/28/2005
Client ID: MI-LA254_050728A **Run ID:** MI-LA254_050728A **SeqNo:** 383808

Analyte: Mercury **Result:** ND **PQL:** 0.0002 **SPK value:** **SPK Ref Val:** **%REC:** **LowLimit:** **HighLimit:** **RPD Ref Val:** **%RPD:** **RPDLimit:** **Qual:**

Sample ID: MB **Batch ID:** R16098 **Test Code:** SW6010A **Units:** mg/L **Analysis Date:** 7/26/2005 9:21:44 AM **Prep Date:**
Client ID: ICP_050725C **Run ID:** ICP_050725C **SeqNo:** 383117

Analyte: Calcium **Result:** ND **PQL:** 1 **SPK value:** **SPK Ref Val:** **%REC:** **LowLimit:** **HighLimit:** **RPD Ref Val:** **%RPD:** **RPDLimit:** **Qual:**
 Magnesium ND 1
 Zinc ND 0.05

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0507181
Project: River Sampling 3rd Qtr. 2005

Sample ID MB Batch ID: R16098 Test Code: SW6010A Units: mg/L Analysis Date 7/25/2005 9:32:56 AM Prep Date
Client ID: Run ID: ICP_050725C SeqNo: 383127

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Cadmium	ND	0.002									
Chromium	ND	0.006									
Copper	ND	0.006									
Iron	ND	0.02									
Lead	ND	0.005									
Manganese	ND	0.002									
Selenium	ND	0.02									
Silver	ND	0.005									
Uranium	ND	0.1									
Zinc	ND	0.05									

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0507181
Project: River Sampling 3rd Qtr. 2005

Sample ID MB Batch ID: R16160 Test Code: SW6010A Units: mg/L Analysis Date 8/1/2005 1:30:03 PM Prep Date
Client ID: ICP_050801A Run ID: 384640 SeqNo:

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Cadmium	ND	0.002									
Calcium	ND	1									
Chromium	ND	0.006									
Copper	ND	0.006									
Iron	ND	0.02									
Lead	ND	0.005									
Magnesium	0.1625	1									J
Manganese	ND	0.002									
Potassium	0.2152	1									J
Selenium	ND	0.02									
Silver	ND	0.005									
Sodium	ND	1									
Uranium	ND	0.1									
Zinc	ND	0.05									

Sample ID MB-8403 Batch ID: 8403 Test Code: SW6010A Units: mg/L Analysis Date 7/26/2005 10:41:51 AM Prep Date 7/25/2005
Client ID: ICP_050726A Run ID: 383287 SeqNo:

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Cadmium	ND	0.002									
Chromium	ND	0.006									
Lead	ND	0.005									
Selenium	ND	0.05									
Silver	0.007622	0.005									

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

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
Work Order: 0507181
Project: River Sampling 3rd Qtr. 2005

Sample ID MB-8377 Batch ID: 8377 Test Code: E160.1 Units: mg/L Analysis Date 7/22/2005 Prep Date 7/21/2005

Client ID: Run ID: WC_050622E SeqNo: 382620

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids ND 50

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

Hall Environmental Analysis Laboratory

Date: 05-Aug-05

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0507181
 Project: River Sampling 3rd Qtr. 2005

Sample ID: LCS	Batch ID: R16052	Test Code: E300	Units: mg/L	Analysis Date: 7/20/2005	Prep Date:						
Client ID:	Run ID: LC_050720A	SeqNo: 381431									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.5137	0.1	0.5	0	103	90	110	0			
Chloride	5.014	0.1	5	0	100	90	110	0			
Nitrogen, Nitrite (As N)	0.9945	0.1	1	0	99.5	90	110	0			
Bromide	2.637	0.5	2.5	0	105	90	110	0			
Nitrogen, Nitrate (As N)	2.542	0.1	2.5	0	102	90	110	0			
Phosphorus, Orthophosphate (As P)	5.094	0.5	5	0	102	90	110	0			
Sulfate	10.58	0.5	10	0	106	90	110	0			

Sample ID: LCS-8382	Batch ID: 8382	Test Code: SW8015	Units: mg/L	Analysis Date: 7/22/2005 3:09:02 AM	Prep Date: 7/21/2005						
Client ID:	Run ID: FID(17A)_2_050721A	SeqNo: 382005									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.491	1	5	0	110	81.2	149	0			
Surr: DNOP	0.5398	0	0.5	0	108	58	140	0			

Sample ID: LCSD-8382	Batch ID: 8382	Test Code: SW8015	Units: mg/L	Analysis Date: 7/22/2005 3:41:55 AM	Prep Date: 7/21/2005						
Client ID:	Run ID: FID(17A)_2_050721A	SeqNo: 382006									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.229	1	5	0	125	81.2	149	5.491	12.6	23	
Surr: DNOP	0.574	0	0.5	0	115	58	140	0.5398	6.14	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0507181
Project: River Sampling 3rd Qtr. 2005

Sample ID:	GRO lcs 2.5ug	Batch ID:	R16066	Test Code:	SW8015	Units:	mg/L	Analysis Date:	7/22/2005 1:06:12 AM	Prep Date:	
Client ID:		Run ID:	PIDFID_050721A	SeqNo:	382113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4686	0.05	0.5	0.0168	90.4	82.6	114	0			
Surr: BFB	26.15	0	20	0	131	78.3	120	0			S

Sample ID:	BTEX lcs 100ng	Batch ID:	R16066	Test Code:	SW8021	Units:	µg/L	Analysis Date:	7/22/2005 12:05:09 AM	Prep Date:	
Client ID:		Run ID:	PIDFID_050721A	SeqNo:	382081						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	26.97	2.5	20	0	135	64.5	133	0			S
Benzene	19.67	0.5	20	0	98.3	88.7	114	0			
Toluene	19.17	0.5	20	0	95.9	89.3	112	0			
Ethylbenzene	19.21	0.5	20	0	96.1	88.6	113	0			
Xylenes, Total	38.86	0.5	40	0	97.1	89.4	112	0			

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0507181
 Project: River Sampling 3rd Qtr. 2005

Sample ID:	LCS-8383	Batch ID:	8383	Test Code:	SW8270C	Units:	µg/L	Analysis Date:	7/27/2005	Prep Date:	7/21/2005
Client ID:		Run ID:		ELMO_050727A				SeqNo:	384017		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	63.86	10	100	0	63.9	11	123	0			
4-Chloro-3-methylphenol	143	20	200	0	71.5	15.4	119	0			
2-Chlorophenol	150.1	10	200	0	75.1	12.2	122	0			
1,4-Dichlorobenzene	64.96	10	100	0	65.0	16.9	100	0			
2,4-Dinitrotoluene	64.66	10	100	0	64.7	13	138	0			
N-Nitrosodi-n-propylamine	64.46	10	100	0	64.5	9.93	122	0			
4-Nitrophenol	62.56	50	200	0	31.3	-20.5	87.4	0			
Pentachlorophenol	118	50	200	0	59.0	-0.355	114	0			
Phenol	81.96	10	200	0	41.0	7.53	73.1	0			
Pyrene	63.18	15	100	0	63.2	12.6	140	0			
1,2,4-Trichlorobenzene	67.36	10	100	0	67.4	17.4	98.7	0			
Surr: 2,4,6-Tribromophenol	116.6	0	200	0	58.3	16.6	150	0			
Surr: 2-Fluorobiphenyl	64.44	0	100	0	64.4	19.6	134	0			
Surr: 2-Fluorophenol	113.1	0	200	0	56.6	9.54	113	0			
Surr: 4-Terphenyl-d14	60.7	0	100	0	60.7	22.7	145	0			
Surr: Nitrobenzene-d5	74.04	0	100	0	74.0	14.6	134	0			
Surr: Phenol-d6	85.12	0	200	0	42.6	10.7	80.3	0			

Sample ID:	LCS-8427	Batch ID:	8427	Test Code:	SW7470	Units:	mg/L	Analysis Date:	7/28/2005	Prep Date:	7/28/2005
Client ID:		Run ID:		MI-LA254_050728A				SeqNo:	383809		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005392	0.0002	0.005	0	108	75.2	134	0			

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

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0507181
 Project: River Sampling 3rd Qtr. 2005

Sample ID: LCSD-8427 Batch ID: 8427 Test Code: SW7470 Units: mg/L Analysis Date: 7/28/2005 Prep Date: 7/28/2005
 Client ID: MI-LA254_050728A SeqNo: 383820

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005386	0.0002	0.005	0	108	75.2	134	0.005392	0.103	0	0

Sample ID: LCS Batch ID: R16098 Test Code: SW6010A Units: mg/L Analysis Date: 7/26/2005 9:28:14 AM Prep Date:
 Client ID: ICP_050725C SeqNo: 383119

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	47.92	1	50.5	0	94.9	80	120	0			
Magnesium	48	1	50.5	0	95.1	80	120	0			
Zinc	0.5056	0.05	0.5	0	101	80	120	0			

Sample ID: LCSD Batch ID: R16098 Test Code: SW6010A Units: mg/L Analysis Date: 7/26/2005 9:30:50 AM Prep Date:
 Client ID: ICP_050725C SeqNo: 383120

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	48.23	1	50.5	0	95.5	80	120	47.92	0.645	20	
Magnesium	48.26	1	50.5	0	95.6	80	120	48	0.528	20	
Zinc	0.5105	0.05	0.5	0	102	80	120	0.5056	0.973	20	

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0507181
 Project: River Sampling 3rd Qtr. 2005

Sample ID: LCS Batch ID: R16098 Test Code: SW6010A Units: mg/L Analysis Date: 7/25/2005 9:35:50 AM Prep Date:

Client ID: ICP_050725C Run ID: ICP_050725C SeqNo: 383128

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.52	0.02	0.5	0	104	80	120	0			
Barium	0.4998	0.02	0.5	0	100	80	120	0			
Cadmium	0.5146	0.002	0.5	0	103	80	120	0			
Chromium	0.5045	0.006	0.5	0	101	80	120	0			
Copper	0.5097	0.006	0.5	0	102	80	120	0			
Iron	0.4907	0.02	0.5	0	98.1	80	120	0			
Lead	0.503	0.005	0.5	0	101	80	120	0			
Manganese	0.4825	0.002	0.5	0	96.5	80	120	0			
Selenium	0.4867	0.02	0.5	0	97.3	80	120	0			
Silver	0.5158	0.005	0.5	0	103	80	120	0			
Uranium	2.681	0.1	2.5	0	107	80	120	0			
Zinc	0.5071	0.05	0.5	0	101	80	120	0			

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

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0507181
Project: River Sampling 3rd Qtr. 2005

Sample ID: LCSD **Batch ID:** R16098 **Test Code:** SW6010A **Units:** mg/L **Analysis Date:** 7/25/2005 9:39:01 AM **Prep Date:**

Client ID: ICP_050725C **Run ID:** ICP_050725C **SeqNo:** 383129

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5368	0.02	0.5	0	107	80	120	0.52	3.18	20	
Barium	0.4961	0.02	0.5	0	99.2	80	120	0.4998	0.745	20	
Cadmium	0.5106	0.002	0.5	0	102	80	120	0.5146	0.779	20	
Chromium	0.5011	0.006	0.5	0	100	80	120	0.5045	0.678	20	
Copper	0.5053	0.006	0.5	0	101	80	120	0.5097	0.879	20	
Iron	0.484	0.02	0.5	0	96.8	80	120	0.4907	1.37	20	
Lead	0.5017	0.005	0.5	0	100	80	120	0.503	0.250	20	
Manganese	0.4792	0.002	0.5	0	95.8	80	120	0.4825	0.685	20	
Selenium	0.4768	0.02	0.5	0	95.4	80	120	0.4867	2.05	20	
Silver	0.5113	0.005	0.5	0	102	80	120	0.5158	0.875	20	
Uranium	2.665	0.1	2.5	0	107	80	120	2.681	0.593	20	
Zinc	0.5045	0.05	0.5	0	101	80	120	0.5071	0.509	20	

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

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0507181
Project: River Sampling 3rd Qtr. 2005

Sample ID: LCS **Batch ID:** R16160 **Test Code:** SW6010A **Units:** mg/L **Analysis Date:** 8/1/2005 1:33:01 PM **Prep Date:**

Client ID: **Run ID:** ICP_050801A **SeqNo:** 384641

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5354	0.02	0.5	0	107	80	120	0			
Barium	0.4903	0.02	0.5	0	98.1	80	120	0			
Cadmium	0.5104	0.002	0.5	0	102	80	120	0			
Calcium	50.2	1	50.5	0	99.4	80	120	0			
Chromium	0.497	0.006	0.5	0	99.4	80	120	0			
Copper	0.5006	0.006	0.5	0	100	80	120	0			
Iron	0.487	0.02	0.5	0	97.4	80	120	0			
Lead	0.4968	0.005	0.5	0	99.4	80	120	0			
Magnesium	50.63	1	50.5	0.1625	99.9	80	120	0			
Manganese	0.4774	0.002	0.5	0	95.5	80	120	0			
Potassium	53.53	1	55	0.2152	96.9	80	120	0			
Selenium	0.4913	0.02	0.5	0	98.3	80	120	0			
Silver	0.511	0.005	0.5	0	102	80	120	0			
Sodium	53.83	1	50.5	0	107	80	120	0			
Uranium	2.563	0.1	2.5	0	103	80	120	0			
Zinc	0.5061	0.05	0.5	0	101	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
7

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0507181
 Project: River Sampling 3rd Qtr. 2005

Sample ID: LCSD Batch ID: R16160 Test Code: SW6010A Units: mg/L Analysis Date: 8/1/2005 1:36:04 PM Prep Date:

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5145	0.02	0.5	0	103	80	120	0.5354	3.97	20	
Barium	0.4872	0.02	0.5	0	97.4	80	120	0.4903	0.625	20	
Cadmium	0.5015	0.002	0.5	0	100	80	120	0.5104	1.75	20	
Calcium	50.49	1	50.5	0	100	80	120	50.2	0.585	20	
Chromium	0.4906	0.006	0.5	0	98.1	80	120	0.497	1.30	20	
Copper	0.4988	0.006	0.5	0	99.8	80	120	0.5006	0.374	20	
Iron	0.4902	0.02	0.5	0	98.0	80	120	0.487	0.667	20	
Lead	0.4848	0.005	0.5	0	97.0	80	120	0.4968	2.46	20	
Magnesium	50.99	1	50.5	0.1625	101	80	120	50.63	0.710	20	
Manganese	0.4739	0.002	0.5	0	94.8	80	120	0.4774	0.733	20	
Potassium	53.74	1	55	0.2152	97.3	80	120	53.53	0.400	20	
Selenium	0.4831	0.02	0.5	0	96.6	80	120	0.4913	1.68	20	
Silver	0.5081	0.005	0.5	0	102	80	120	0.511	0.577	20	
Sodium	54.4	1	50.5	0	108	80	120	53.83	1.05	20	
Uranium	2.583	0.1	2.5	0	103	80	120	2.563	0.765	20	
Zinc	0.4981	0.05	0.5	0	99.6	80	120	0.5061	1.61	20	

Sample ID: LCS-8403 Batch ID: 8403 Test Code: SW6010A Units: mg/L Analysis Date: 7/26/2005 10:45:03 AM Prep Date: 7/25/2005

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4973	0.02	0.5	0	99.5	80	120	0			
Barium	0.4811	0.02	0.5	0	96.2	80	120	0			
Cadmium	0.486	0.002	0.5	0	97.2	80	120	0			
Chromium	0.4715	0.006	0.5	0	94.3	80	120	0			
Lead	0.4743	0.005	0.5	0	94.9	80	120	0			
Selenium	0.4658	0.05	0.5	0	93.2	80	120	0			
Silver	0.4973	0.005	0.5	0.007622	97.9	80	120	0			B

Client ID: LCS-8403 Batch ID: 8403 Test Code: SW6010A Units: mg/L Analysis Date: 7/26/2005 10:45:03 AM Prep Date: 7/25/2005
 SeqNo: 383288

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

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0507181
 Project: River Sampling 3rd Qtr. 2005

Sample ID:	LCSD-8403	Batch ID:	8403	Test Code:	SW6010A	Units:	mg/L	Analysis Date:	7/26/2005 10:48:12 AM	Prep Date:	7/25/2005
Client ID:		Run ID:	ICP_050726A	SeqNo:	383289						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5209	0.02	0.5	0	104	80	120	0.4973	4.64	20	
Barium	0.488	0.02	0.5	0	97.6	80	120	0.4811	1.43	20	
Cadmium	0.4972	0.002	0.5	0	99.4	80	120	0.486	2.29	20	
Chromium	0.4818	0.006	0.5	0	96.4	80	120	0.4715	2.18	20	
Lead	0.485	0.005	0.5	0	97.0	80	120	0.4743	2.23	20	
Selenium	0.4946	0.05	0.5	0	98.9	80	120	0.4658	6.01	20	
Silver	0.5044	0.005	0.5	0.007622	99.4	80	120	0.4973	1.43	20	B

Sample ID:	LCS-8377	Batch ID:	8377	Test Code:	E160.1	Units:	mg/L	Analysis Date:	7/22/2005	Prep Date:	7/21/2005
Client ID:		Run ID:	WC_050622E	SeqNo:	382621						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	1016	50	1000	0	102	80	120	0			

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

7/20/2005

Work Order Number 0507181

Received by AT

Checklist completed by

[Handwritten Signature]
Signature

7/20/05
Date

Matrix

Carrier name Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? **1°** *4° C ± 2 Acceptable*
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

COVER LETTER

August 24, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: Annual Sampling 2005

Order No.: 0508092

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 3 samples on 8/9/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0508092
 Project: Annual Sampling 2005
 Lab ID: 0508092-02

Client Sample ID: MW #48
 Collection Date: 8/9/2005 9:05:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: CMC
Fluoride	0.54	0.10		mg/L	1	8/9/2005
Chloride	120	1.0		mg/L	10	8/10/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	8/9/2005
Bromide	ND	0.50		mg/L	1	8/9/2005
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	8/9/2005
Phosphorus, Orthophosphate (As P)	0.53	0.50		mg/L	1	8/9/2005
Sulfate	140	5.0		mg/L	10	8/10/2005
EPA METHOD 310.1: ALKALINITY						Analyst: CMC
Alkalinity, Total (As CaCO ₃)	1300	2.0		mg/L CaCO ₃	1	8/11/2005
Carbonate	110	2.0		mg/L CaCO ₃	1	8/11/2005
Bicarbonate	1200	2.0		mg/L CaCO ₃	1	8/11/2005
EPA METHOD 8260: VOLATILES						Analyst: HLM
Benzene	620	20		µg/L	20	8/16/2005
Toluene	26	20		µg/L	20	8/16/2005
Ethylbenzene	2500	100		µg/L	100	8/17/2005
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	8/16/2005
1,2,4-Trimethylbenzene	1600	20		µg/L	20	8/16/2005
1,3,5-Trimethylbenzene	450	20		µg/L	20	8/16/2005
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	8/16/2005
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	8/16/2005
Naphthalene	380	40		µg/L	20	8/16/2005
1-Methylnaphthalene	180	80		µg/L	20	8/16/2005
2-Methylnaphthalene	170	80		µg/L	20	8/16/2005
Acetone	ND	200		µg/L	20	8/16/2005
Bromobenzene	ND	20		µg/L	20	8/16/2005
Bromochloromethane	ND	20		µg/L	20	8/16/2005
Bromodichloromethane	ND	20		µg/L	20	8/16/2005
Bromoform	ND	20		µg/L	20	8/16/2005
Bromomethane	ND	40		µg/L	20	8/16/2005
2-Butanone	ND	200		µg/L	20	8/16/2005
Carbon disulfide	ND	200		µg/L	20	8/16/2005
Carbon Tetrachloride	ND	20		µg/L	20	8/16/2005
Chlorobenzene	ND	20		µg/L	20	8/16/2005
Chloroethane	ND	40		µg/L	20	8/16/2005
Chloroform	ND	20		µg/L	20	8/16/2005
Chloromethane	ND	20		µg/L	20	8/16/2005
2-Chlorotoluene	ND	20		µg/L	20	8/16/2005
4-Chlorotoluene	ND	20		µg/L	20	8/16/2005
cis-1,2-DCE	ND	20		µg/L	20	8/16/2005
cis-1,3-Dichloropropene	ND	20		µg/L	20	8/16/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0508092
 Project: Annual Sampling 2005
 Lab ID: 0508092-02

Client Sample ID: MW #48
 Collection Date: 8/9/2005 9:05:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	8/16/2005
Dibromochloromethane	ND	20		µg/L	20	8/16/2005
Dibromomethane	ND	40		µg/L	20	8/16/2005
1,2-Dichlorobenzene	ND	20		µg/L	20	8/16/2005
1,3-Dichlorobenzene	ND	20		µg/L	20	8/16/2005
1,4-Dichlorobenzene	ND	20		µg/L	20	8/16/2005
Dichlorodifluoromethane	ND	20		µg/L	20	8/16/2005
1,1-Dichloroethane	ND	20		µg/L	20	8/16/2005
1,1-Dichloroethene	ND	20		µg/L	20	8/16/2005
1,2-Dichloropropane	ND	20		µg/L	20	8/16/2005
1,3-Dichloropropane	ND	20		µg/L	20	8/16/2005
2,2-Dichloropropane	ND	20		µg/L	20	8/16/2005
1,1-Dichloropropene	ND	20		µg/L	20	8/16/2005
Hexachlorobutadiene	ND	20		µg/L	20	8/16/2005
2-Hexanone	ND	200		µg/L	20	8/16/2005
Isopropylbenzene	230	20		µg/L	20	8/16/2005
4-Isopropyltoluene	ND	20		µg/L	20	8/16/2005
4-Methyl-2-pentanone	ND	200		µg/L	20	8/16/2005
Methylene Chloride	ND	60		µg/L	20	8/16/2005
n-Butylbenzene	110	20		µg/L	20	8/16/2005
n-Propylbenzene	420	20		µg/L	20	8/16/2005
sec-Butylbenzene	ND	20		µg/L	20	8/16/2005
Styrene	ND	20		µg/L	20	8/16/2005
tert-Butylbenzene	ND	20		µg/L	20	8/16/2005
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	8/16/2005
1,1,1,2,2-Tetrachloroethane	ND	20		µg/L	20	8/16/2005
Tetrachloroethene (PCE)	ND	20		µg/L	20	8/16/2005
trans-1,2-DCE	ND	20		µg/L	20	8/16/2005
trans-1,3-Dichloropropene	ND	20		µg/L	20	8/16/2005
1,2,3-Trichlorobenzene	ND	20		µg/L	20	8/16/2005
1,2,4-Trichlorobenzene	ND	20		µg/L	20	8/16/2005
1,1,1-Trichloroethane	ND	20		µg/L	20	8/16/2005
1,1,2-Trichloroethane	ND	20		µg/L	20	8/16/2005
Trichloroethene (TCE)	ND	20		µg/L	20	8/16/2005
Trichlorofluoromethane	ND	20		µg/L	20	8/16/2005
1,2,3-Trichloropropane	ND	40		µg/L	20	8/16/2005
Vinyl chloride	ND	20		µg/L	20	8/16/2005
Xylenes, Total	9900	100		µg/L	100	8/17/2005
Surr: 1,2-Dichloroethane-d4	99.5	87.7-108		%REC	20	8/16/2005
Surr: 4-Bromofluorobenzene	104	88.8-113		%REC	20	8/16/2005
Surr: Dibromofluoromethane	104	84.1-111		%REC	20	8/16/2005
Surr: Toluene-d8	95.3	85.9-109		%REC	20	8/16/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0508092
 Project: Annual Sampling 2005
 Lab ID: 0508092-02

Client Sample ID: MW #48
 Collection Date: 8/9/2005 9:05:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: CMC
Specific Conductance	2800	0.010		µmhos/cm	1	8/13/2005
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	8/11/2005 10:07:41 AM
Barium	0.23	0.0020		mg/L	1	8/11/2005 10:07:41 AM
Cadmium	ND	0.0020		mg/L	1	8/11/2005 10:07:41 AM
Calcium	100	10		mg/L	10	8/11/2005 11:55:35 AM
Chromium	ND	0.0060		mg/L	1	8/11/2005 10:07:41 AM
Copper	ND	0.0060		mg/L	1	8/11/2005 10:07:41 AM
Iron	ND	0.020		mg/L	1	8/11/2005 10:07:41 AM
Lead	0.012	0.0050		mg/L	1	8/11/2005 10:07:41 AM
Magnesium	20	1.0		mg/L	1	8/11/2005 10:07:41 AM
Manganese	0.12	0.0020		mg/L	1	8/11/2005 10:07:41 AM
Potassium	4.0	1.0		mg/L	1	8/11/2005 10:07:41 AM
Selenium	0.077	0.050		mg/L	1	8/11/2005 10:07:41 AM
Silver	ND	0.0050		mg/L	1	8/11/2005 10:07:41 AM
Sodium	510	10		mg/L	10	8/11/2005 11:55:35 AM
Uranium	ND	0.10		mg/L	1	8/11/2005 10:07:41 AM
Zinc	0.012	0.0050		mg/L	1	8/11/2005 10:07:41 AM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Chromium	ND	0.0060		mg/L	1	8/15/2005 12:56:42 PM
Lead	0.015	0.0050		mg/L	1	8/15/2005 12:56:42 PM
EPA METHOD 160.1: TDS						Analyst: DK
Total Dissolved Solids	1800	50		mg/L	1	8/12/2005

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0508092
 Project: Annual Sampling 2005
 Lab ID: 0508092-03

Client Sample ID: MW #49
 Collection Date: 8/9/2005 8:45:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: CMC
Fluoride	0.37	0.10		mg/L	1	8/9/2005
Chloride	140	0.50		mg/L	5	8/10/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	8/9/2005
Bromide	ND	2.5		mg/L	5	8/10/2005
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	8/10/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	8/9/2005
Sulfate	280	5.0		mg/L	10	8/10/2005
EPA METHOD 310.1: ALKALINITY						Analyst: CMC
Alkalinity, Total (As CaCO3)	960	2.0		mg/L CaCO3	1	8/11/2005
Carbonate	ND	2.0		mg/L CaCO3	1	8/11/2005
Bicarbonate	960	2.0		mg/L CaCO3	1	8/11/2005
EPA METHOD 8260: VOLATILES						Analyst: HLM
Benzene	93	2.0		µg/L	2	8/17/2005
Toluene	ND	2.0		µg/L	2	8/17/2005
Ethylbenzene	15	2.0		µg/L	2	8/17/2005
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	8/17/2005
1,2,4-Trimethylbenzene	34	2.0		µg/L	2	8/17/2005
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	8/17/2005
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	8/17/2005
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	8/17/2005
Naphthalene	9.1	4.0		µg/L	2	8/17/2005
1-Methylnaphthalene	ND	8.0		µg/L	2	8/17/2005
2-Methylnaphthalene	ND	8.0		µg/L	2	8/17/2005
Acetone	ND	20		µg/L	2	8/17/2005
Bromobenzene	ND	2.0		µg/L	2	8/17/2005
Bromochloromethane	ND	2.0		µg/L	2	8/17/2005
Bromodichloromethane	ND	2.0		µg/L	2	8/17/2005
Bromoform	ND	2.0		µg/L	2	8/17/2005
Bromomethane	ND	4.0		µg/L	2	8/17/2005
2-Butanone	ND	20		µg/L	2	8/17/2005
Carbon disulfide	ND	20		µg/L	2	8/17/2005
Carbon Tetrachloride	ND	2.0		µg/L	2	8/17/2005
Chlorobenzene	ND	2.0		µg/L	2	8/17/2005
Chloroethane	ND	4.0		µg/L	2	8/17/2005
Chloroform	ND	2.0		µg/L	2	8/17/2005
Chloromethane	ND	2.0		µg/L	2	8/17/2005
2-Chlorotoluene	ND	2.0		µg/L	2	8/17/2005
4-Chlorotoluene	ND	2.0		µg/L	2	8/17/2005
cis-1,2-DCE	ND	2.0		µg/L	2	8/17/2005
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	8/17/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0508092
 Project: Annual Sampling 2005
 Lab ID: 0508092-03

Client Sample ID: MW #49
 Collection Date: 8/9/2005 8:45:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	8/17/2005
Dibromochloromethane	ND	2.0		µg/L	2	8/17/2005
Dibromomethane	ND	4.0		µg/L	2	8/17/2005
1,2-Dichlorobenzene	ND	2.0		µg/L	2	8/17/2005
1,3-Dichlorobenzene	ND	2.0		µg/L	2	8/17/2005
1,4-Dichlorobenzene	ND	2.0		µg/L	2	8/17/2005
Dichlorodifluoromethane	ND	2.0		µg/L	2	8/17/2005
1,1-Dichloroethane	ND	2.0		µg/L	2	8/17/2005
1,1-Dichloroethene	ND	2.0		µg/L	2	8/17/2005
1,2-Dichloropropane	ND	2.0		µg/L	2	8/17/2005
1,3-Dichloropropane	ND	2.0		µg/L	2	8/17/2005
2,2-Dichloropropane	ND	2.0		µg/L	2	8/17/2005
1,1-Dichloropropene	ND	2.0		µg/L	2	8/17/2005
Hexachlorobutadiene	ND	2.0		µg/L	2	8/17/2005
2-Hexanone	ND	2.0		µg/L	2	8/17/2005
Isopropylbenzene	22	2.0		µg/L	2	8/17/2005
4-Isopropyltoluene	ND	2.0		µg/L	2	8/17/2005
4-Methyl-2-pentanone	ND	2.0		µg/L	2	8/17/2005
Methylene Chloride	ND	6.0		µg/L	2	8/17/2005
n-Butylbenzene	2.5	2.0		µg/L	2	8/17/2005
n-Propylbenzene	12	2.0		µg/L	2	8/17/2005
sec-Butylbenzene	ND	2.0		µg/L	2	8/17/2005
Styrene	ND	2.0		µg/L	2	8/17/2005
tert-Butylbenzene	ND	2.0		µg/L	2	8/17/2005
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	8/17/2005
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	2	8/17/2005
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	8/17/2005
trans-1,2-DCE	ND	2.0		µg/L	2	8/17/2005
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	8/17/2005
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	8/17/2005
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	8/17/2005
1,1,1-Trichloroethane	ND	2.0		µg/L	2	8/17/2005
1,1,2-Trichloroethane	ND	2.0		µg/L	2	8/17/2005
Trichloroethene (TCE)	ND	2.0		µg/L	2	8/17/2005
Trichlorofluoromethane	ND	2.0		µg/L	2	8/17/2005
1,2,3-Trichloropropane	ND	4.0		µg/L	2	8/17/2005
Vinyl chloride	ND	2.0		µg/L	2	8/17/2005
Xylenes, Total	4.1	2.0		µg/L	2	8/17/2005
Surr: 1,2-Dichloroethane-d4	97.2	87.7-108		%REC	2	8/17/2005
Surr: 4-Bromofluorobenzene	104	88.8-113		%REC	2	8/17/2005
Surr: Dibromofluoromethane	103	84.1-111		%REC	2	8/17/2005
Surr: Toluene-d8	91.7	85.9-109		%REC	2	8/17/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: San Juan Refining
 Lab Order: 0508092
 Project: Annual Sampling 2005
 Lab ID: 0508092-03

Client Sample ID: MW #49
 Collection Date: 8/9/2005 8:45:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: CMC
Specific Conductance	2500	0.010		µmhos/cm	1	8/13/2005
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	8/11/2005 10:11:55 AM
Barium	0.24	0.0020		mg/L	1	8/11/2005 10:11:55 AM
Cadmium	ND	0.0020		mg/L	1	8/11/2005 10:11:55 AM
Calcium	120	10		mg/L	10	8/11/2005 11:58:25 AM
Chromium	ND	0.0060		mg/L	1	8/11/2005 10:11:55 AM
Copper	ND	0.0060		mg/L	1	8/11/2005 10:11:55 AM
Iron	0.72	0.020		mg/L	1	8/11/2005 10:11:55 AM
Lead	ND	0.0050		mg/L	1	8/11/2005 10:11:55 AM
Magnesium	29	1.0		mg/L	1	8/11/2005 10:11:55 AM
Manganese	1.9	0.0020		mg/L	1	8/11/2005 10:11:55 AM
Potassium	4.7	1.0		mg/L	1	8/11/2005 10:11:55 AM
Selenium	ND	0.050		mg/L	1	8/11/2005 10:11:55 AM
Silver	ND	0.0050		mg/L	1	8/11/2005 10:11:55 AM
Sodium	360	10		mg/L	10	8/11/2005 11:58:25 AM
Uranium	ND	0.10		mg/L	1	8/11/2005 10:11:55 AM
Zinc	0.0055	0.0050		mg/L	1	8/11/2005 10:11:55 AM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Chromium	0.013	0.0060		mg/L	1	8/15/2005 1:13:50 PM
Lead	0.0075	0.0050		mg/L	1	8/15/2005 1:13:50 PM
EPA METHOD 160.1: TDS						Analyst: DK
Total Dissolved Solids	1600	50		mg/L	1	8/12/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0508092
Project: Annual Sampling 2005

Sample ID	MBLK	Batch ID: R16247	Test Code: E300	Units: mg/L	Analysis Date 8/9/2005	Prep Date				
Client ID:	LC_050809A	Run ID:	SeqNo: 386710							
Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1								
Chloride	ND	0.1								
Nitrogen, Nitrite (As N)	ND	0.1								
Bromide	ND	0.5								
Nitrogen, Nitrate (As N)	ND	0.1								
Phosphorus, Orthophosphate (As P)	ND	0.5								
Sulfate	ND	0.5								

Sample ID	MBLK	Batch ID: R16266	Test Code: E300	Units: mg/L	Analysis Date 8/10/2005	Prep Date				
Client ID:	LC_050810A	Run ID:	SeqNo: 387042							
Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1								
Chloride	ND	0.1								
Nitrogen, Nitrite (As N)	ND	0.1								
Bromide	ND	0.5								
Nitrogen, Nitrate (As N)	ND	0.1								
Phosphorus, Orthophosphate (As P)	ND	0.5								
Sulfate	ND	0.5								

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

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0508092
 Project: Annual Sampling 2005

Sample ID	MIBLK	Batch ID: R16266	Test Code: E300	Units: mg/L	Analysis Date 8/10/2005	Prep Date					
Client ID:		Run ID: LC_050810A			SeqNo: 387086						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1									
Chloride	ND	0.1									
Nitrogen, Nitrite (As N)	ND	0.1									
Bromide	ND	0.5									
Nitrogen, Nitrate (As N)	ND	0.1									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									

Sample ID	MB	Batch ID: R16272	Test Code: SW6010A	Units: mg/L	Analysis Date 8/11/2005 8:57:51 AM	Prep Date					
Client ID:		Run ID: ICP_050811B			SeqNo: 387315						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Cadmium	ND	0.002									
Calcium	ND	1									
Chromium	ND	0.006									
Copper	ND	0.006									
Iron	ND	0.02									
Lead	ND	0.005									
Magnesium	ND	1									
Manganese	ND	0.002									
Potassium	ND	1									
Selenium	ND	0.02									
Silver	ND	0.005									
Sodium	ND	1									
Uranium	ND	0.1									
Zinc	ND	0.05									

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0508092
Project: Annual Sampling 2005

Sample ID MB-8517 Batch ID: 8517 Test Code: SW6010A Units: mg/L Analysis Date 8/15/2005 12:28:52 PM Prep Date 8/11/2005
Client ID: Run ID: ICP_050815A SeqNo: 388298

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	0.006	0	0	0	0	0	0	0	0	0
Lead	ND	0.005	0	0	0	0	0	0	0	0	0

Sample ID MB-8519 Batch ID: 8519 Test Code: E160.1 Units: mg/L Analysis Date 8/12/2005 Prep Date 8/11/2005
Client ID: Run ID: WC_050812E SeqNo: 388615

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50									

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

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0508092
Project: Annual Sampling 2005

Sample ID 5ml rb Batch ID: R16318 Test Code: SW8260B Units: µg/L Analysis Date 8/16/2005 Prep Date
Client ID: VAL_050816A Run ID: PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
SeqNo: 388908

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1									
Toluene	ND	1									
Ethylbenzene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	1									
1,2,4-Trimethylbenzene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
1,2-Dichloroethane (EDC)	ND	1									
1,2-Dibromoethane (EDB)	ND	1									
Naphthalene	ND	2									
1-Methylnaphthalene	ND	4									
2-Methylnaphthalene	ND	4									
Acetone	ND	10									
Bromobenzene	ND	1									
Bromochloromethane	ND	1									
Bromodichloromethane	ND	1									
Bromoform	ND	1									
Bromomethane	ND	2									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	1									
Chlorobenzene	ND	1									
Chloroethane	ND	2									
Chloroform	ND	1									
Chloromethane	ND	1									
2-Chlorotoluene	ND	1									
4-Chlorotoluene	ND	1									
cis-1,2-DCE	ND	1									

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
 Work Order: 0508092
 Project: Annual Sampling 2005

cis-1,3-Dichloropropene	ND	1
1,2-Dibromo-3-chloropropane	ND	2
Dibromochloromethane	ND	1
Dibromomethane	ND	2
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Dichlorodifluoromethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,2-Dichloropropane	ND	1
1,3-Dichloropropane	ND	1
2,2-Dichloropropane	ND	1
1,1-Dichloropropene	ND	1
Hexachlorobutadiene	ND	1
2-Hexanone	ND	10
Isopropylbenzene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-pentanone	ND	10
Methylene Chloride	ND	3
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
1,1,1,2-Tetrachloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Tetrachloroethene (PCE)	ND	1
trans-1,2-DCE	ND	1
trans-1,3-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,4-Trichlorobenzene	ND	1
1,1,1-Trichloroethane	ND	1

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

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

QC SUMMARY REPORT
Sample Duplicate

CLIENT: San Juan Refining
Work Order: 0508092
Project: Annual Sampling 2005

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Prep Date
Alkalinity, Total (As CaCO3)	307	2	0	0	0	0	0	312	1.62	15		
Carbonate	ND	2	0	0	0	0	0	0	0	15		
Bicarbonate	307	2	0	0	0	0	0	312	1.62	15		

Sample ID: 0508092-01B DUP Batch ID: R16283 Test Code: E310.1 Units: mg/L CaCO3 Analysis Date: 8/11/2005
Client ID: MW #12 Run ID: WC_050811B SeqNo: 387649

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

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0508092
Project: Annual Sampling 2005

Sample ID	LCS	Batch ID: R16247	Test Code: E300	Units: mg/L	Analysis Date 8/9/2005	Prep Date					
Client ID:		Run ID: LC_050809A	SeqNo: 386711								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.5223	0.1	0.5	0	104	90	110	0			
Chloride	4.994	0.1	5	0	99.9	90	110	0			
Nitrogen, Nitrite (As N)	0.9494	0.1	1	0	94.9	90	110	0			
Bromide	2.637	0.5	2.5	0	105	90	110	0			
Nitrogen, Nitrate (As N)	2.525	0.1	2.5	0	101	90	110	0			
Phosphorus, Orthophosphate (As P)	5.092	0.5	5	0	102	90	110	0			
Sulfate	10.25	0.5	10	0	103	90	110	0			

Sample ID	LCS	Batch ID: R16266	Test Code: E300	Units: mg/L	Analysis Date 8/10/2005	Prep Date					
Client ID:		Run ID: LC_050810A	SeqNo: 387043								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.4754	0.1	0.5	0	95.1	90	110	0			
Chloride	4.805	0.1	5	0	96.1	90	110	0			
Nitrogen, Nitrite (As N)	0.9043	0.1	1	0	90.4	90	110	0			
Bromide	2.525	0.5	2.5	0	101	90	110	0			
Nitrogen, Nitrate (As N)	2.424	0.1	2.5	0	97.0	90	110	0			
Phosphorus, Orthophosphate (As P)	5.01	0.5	5	0	100	90	110	0			
Sulfate	9.757	0.5	10	0	97.6	90	110	0			

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
I

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0508092
Project: Annual Sampling 2005

Sample ID	LCS	Batch ID: R16286	Test Code: E300	Units: mg/L	Analysis Date 8/10/2005	Prep Date					
Client ID:		Run ID: LC_050810A			SeqNo: 387087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.495	0.1	0.5	0	99.0	90	110	0			
Chloride	4.883	0.1	5	0	97.7	90	110	0			
Nitrogen, Nitrite (As N)	0.9222	0.1	1	0	92.2	90	110	0			
Bromide	2.576	0.5	2.5	0	103	90	110	0			
Nitrogen, Nitrate (As N)	2.47	0.1	2.5	0	98.8	90	110	0			
Phosphorus, Orthophosphate (As P)	5.075	0.5	5	0	101	90	110	0			
Sulfate	9.928	0.5	10	0	99.3	90	110	0			

Sample ID	100ng Ics	Batch ID: R16318	Test Code: SW8260B	Units: µg/L	Analysis Date 8/16/2005	Prep Date					
Client ID:		Run ID: VAL_050816A			SeqNo: 388909						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.16	1	20	0	106	81.4	130	0			
Toluene	22.8	1	20	0	114	90.8	128	0			
Chlorobenzene	23.26	1	20	0	116	89.6	134	0			
1,1-Dichloroethene	20.37	1	20	0	102	75.1	120	0			
Trichloroethene (TCE)	17.95	1	20	0	89.8	75.8	110	0			

Sample ID	100ng Ics	Batch ID: R16334	Test Code: SW8260B	Units: µg/L	Analysis Date 8/17/2005	Prep Date					
Client ID:		Run ID: VAL_050817A			SeqNo: 389361						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.04	1	20	0	110	81.4	130	0			
Toluene	22.87	1	20	0	114	90.8	128	0			
Chlorobenzene	25.72	1	20	0	129	89.6	134	0			
1,1-Dichloroethene	20.58	1	20	0	103	75.1	120	0			
Trichloroethene (TCE)	18.9	1	20	0	94.5	75.8	110	0			

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

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0508092
Project: Annual Sampling 2005

Sample ID	LCS	Batch ID: R16272	Test Code: SW6010A	Units: mg/L	Analysis Date	8/11/2005 9:01:03 AM	Prep Date				
Client ID:		Run ID: ICP_050811B			SeqNo: 387316						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.533	0.02	0.5	0	107	80	120	0			
Barium	0.5048	0.02	0.5	0	101	80	120	0			
Cadmium	0.5223	0.002	0.5	0	104	80	120	0			
Calcium	51.98	1	50.5	0	103	80	120	0			
Chromium	0.5109	0.006	0.5	0	102	80	120	0			
Copper	0.5142	0.006	0.5	0	103	80	120	0			
Iron	0.498	0.02	0.5	0	99.6	80	120	0			
Lead	0.5109	0.005	0.5	0	102	80	120	0			
Magnesium	51.93	1	50.5	0	103	80	120	0			
Manganese	0.4902	0.002	0.5	0	98.0	80	120	0			
Potassium	54.41	1	55	0	98.9	80	120	0			
Selenium	0.5129	0.02	0.5	0	103	80	120	0			
Silver	0.5283	0.005	0.5	0	106	80	120	0			
Sodium	55.22	1	50.5	0	109	80	120	0			
Uranium	2.601	0.1	2.5	0	104	80	120	0			
Zinc	0.5238	0.05	0.5	0	105	80	120	0			

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

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0508092
Project: Annual Sampling 2005

Sample ID	LCSID	Batch ID	R16272	Test Code	SW6010A	Units	mg/L	Analysis Date	8/11/2005	9:04:22 AM	Prep Date
Client ID:		Run ID:	ICP_050811B	SeqNo:	387317						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5505	0.02	0.5	0	110	80	120	0.533	3.23	20	
Barium	0.5126	0.02	0.5	0	103	80	120	0.5048	1.53	20	
Cadmium	0.5311	0.002	0.5	0	106	80	120	0.5223	1.67	20	
Calcium	52.69	1	50.5	0	104	80	120	51.98	1.36	20	
Chromium	0.5196	0.006	0.5	0	104	80	120	0.5109	1.69	20	
Copper	0.5182	0.006	0.5	0	104	80	120	0.5142	0.774	20	
Iron	0.5	0.02	0.5	0	100	80	120	0.498	0.389	20	
Lead	0.5198	0.005	0.5	0	104	80	120	0.5109	1.74	20	
Magnesium	52.6	1	50.5	0	104	80	120	51.93	1.28	20	
Manganese	0.496	0.002	0.5	0	99.2	80	120	0.4902	1.19	20	
Potassium	55.16	1	55	0	100	80	120	54.41	1.36	20	
Selenium	0.533	0.02	0.5	0	107	80	120	0.5129	3.83	20	
Silver	0.5233	0.005	0.5	0	105	80	120	0.5283	0.954	20	
Sodium	55.88	1	50.5	0	111	80	120	55.22	1.19	20	
Uranium	2.61	0.1	2.5	0	104	80	120	2.601	0.322	20	
Zinc	0.5347	0.05	0.5	0	107	80	120	0.5238	2.06	20	

Sample ID	LCS-8517	Batch ID	8517	Test Code	SW6010A	Units	mg/L	Analysis Date	8/15/2005	12:32:07 PM	Prep Date
Client ID:		Run ID:	ICP_050815A	SeqNo:	388299						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.4884	0.006	0.5	0	97.7	80	120	0			
Lead	0.4996	0.005	0.5	0	99.9	80	120	0			

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

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0508092
Project: Annual Sampling 2005

Sample ID	LCSD-8517	Batch ID:	8517	Test Code:	SW6010A	Units:	mg/L	Analysis Date	8/15/2005 12:35:41 PM	Prep Date	8/11/2005
Client ID:		Run ID:	ICP_050815A					SeqNo:	388300		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.4983	0.008	0.5	0	99.7	80	120	0.4884	2.00	20	
Lead	0.5095	0.005	0.5	0	102	80	120	0.4996	1.98	20	

Sample ID	LCS-8519	Batch ID:	8519	Test Code:	E160.1	Units:	mg/L	Analysis Date	8/12/2005	Prep Date	8/11/2005
Client ID:		Run ID:	WC_050812E					SeqNo:	388616		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	1005	50	1000	0	101	80	120	0			

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

8/9/2005

Work Order Number 0508092

Received by AT

Checklist completed by

[Signature]

8/9/05

Signature

Date

Matrix

Carrier name Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: San Juan Refinery

Address: #50, Rd 4990

Bloomfield, NM

87413

Phone #: 505-632-4161

Fax #: 505-632-3911

QA/QC Package:
Std Level 4

Other:

Project Name:
Annual Sampling 2005

Project #:

Project Manager:

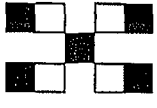
Sampler:
Cindy Hurtado / Angela Folk

Sample temperature:
37

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
8/6/05	1200	H ₂ O	MW# 12	1-500ml			H ₂ SO ₄ /HNO ₃ - 1
				1-500ml			
				1-250ml	X		Filtered
				1-500ml	X		
				2-VOA	X		
	905 AM						
8/6/05	8:45 AM	H ₂ O	MW# 48	1-500ml			H ₂ SO ₄ - 2
				1-500ml			
				1-250ml	X		Filtered
				1-500ml	X		
				2-VOA	X		

Date: 8/9/05 Time: 9:30 AM
 Relinquished By: (Signature) Cindy Hurtado
 Date: 8/9/05 Time: 10:45
 Received By: (Signature) [Signature]
 Received By: (Signature) [Signature]

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com



ANALYSIS REQUEST

BTEX + MTBE + TPB (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Carbon Dioxide Fraction Ba	Dissolved Wacc metals	Total Pb & Cr	TDS	Air Bubbles or Headspace (Y or N)
							X				X				
							X				X				
									X						

Remarks:

CHAIN-OF-CUSTODY RECORD

Client: San Juan Refining
 Address: #50 Rd 4990
Bloomfield, NM
87413
 Phone #: 505-632-4161
 Fax #: 505-632-3411

Other: Std Level 4 Other:
 Project Name: Annual Sampling - 2005
 Project #: _____
 Project Manager: _____
 Sampler: Cindy Chantado / Angela Folk
 Sample Temperature: 3

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
8/18/05	9:05 AM	H ₂ O	49 MW # 48	1-500ml			050882
				1-500ml			H ₂ SO ₄ -3
				1-250ml	X		Filtrated HNO ₃
				1-500ml	X		
				2-VOA	X		

Date: 8/18/05 Time: 9:50 AM
 Relinquished By: (Signature) Cindy Chantado
 Date: _____ Time: _____
 Relinquished By: (Signature) _____

Received By: (Signature) _____
 Date: 8/19/05
 Received By: (Signature) _____
 Date: 10/15

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	B310 (PMA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Carbon Dioxide / Total Balance	Dissolved W/Dic Metals	Total Pb & Cr	TDS	Air Bubbles or Headspace (Y or N)
								X				X				
								X				X				
										X						

Remarks:



2005 OCT 12 PM 1 21

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

Certified Mail: 7004 2510 0005 1641 4507

August 4, 2005

**RE: Giant Refining Company, Bloomfield Refinery
EPA ID# NMD089416416
GW - 001**

Dear Mr. Price,

Please find attached analytical results for the July 6, 2005 sampling event for wells MW #48 and MW #49 on the river terrace at the Giant Refining facility. Note that the results for well MW #49, located down gradient of the barrier wall, had a detection of benzene at a concentration of 35 ug/L. A BTEX sample was taken out of the San Juan River adjacent to MW #49. The results of that sample were non detect. We will continue to monitor both wells on a monthly basis and evaluate the concentration trends.

Tank #33 and Fresh Water Pond samples were pulled on July 6, 2005. Analytical results are included with this packet. Tank #33 benzene levels were non detect. Fresh Water Pond results were all non detect.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Hurtado".

Cindy Hurtado
Environmental Coordinator
Giant Refining – Bloomfield

Cc. Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

COVER LETTER

July 29, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Terrace - 7/05

Order No.: 0507047

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 4 samples on 7/7/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 29-Jul-05

CLIENT: San Juan Refining
 Lab Order: 0507047
 Project: River Terrace - 7/05
 Lab ID: 0507047-01

Client Sample ID: MW #49
 Collection Date: 7/6/2005 11:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/12/2005 6:02:54 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/12/2005 6:02:54 AM
Surr: DNOP	134	58-140		%REC	1	7/12/2005 6:02:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.33	0.050		mg/L	1	7/19/2005 2:03:08 PM
Surr: BFB	109	78.3-120		%REC	1	7/19/2005 2:03:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/19/2005 2:03:08 PM
Benzene	35	0.50		µg/L	1	7/19/2005 2:03:08 PM
Toluene	ND	0.50		µg/L	1	7/19/2005 2:03:08 PM
Ethylbenzene	3.8	0.50		µg/L	1	7/19/2005 2:03:08 PM
Xylenes, Total	5.1	0.50		µg/L	1	7/19/2005 2:03:08 PM
Surr: 4-Bromofluorobenzene	111	83.3-121		%REC	1	7/19/2005 2:03:08 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	ND	2.5		µg/L	1	7/20/2005 3:12:42 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	7/20/2005 3:12:42 PM
2-Methylnaphthalene	ND	2.5		µg/L	1	7/20/2005 3:12:42 PM
Acenaphthylene	ND	2.5		µg/L	1	7/20/2005 3:12:42 PM
Acenaphthene	ND	2.5		µg/L	1	7/20/2005 3:12:42 PM
Fluorene	ND	0.80		µg/L	1	7/20/2005 3:12:42 PM
Phenanthrene	ND	0.60		µg/L	1	7/20/2005 3:12:42 PM
Anthracene	ND	0.60		µg/L	1	7/20/2005 3:12:42 PM
Fluoranthene	ND	0.30		µg/L	1	7/20/2005 3:12:42 PM
Pyrene	ND	0.30		µg/L	1	7/20/2005 3:12:42 PM
Benz(a)anthracene	ND	0.020		µg/L	1	7/20/2005 3:12:42 PM
Chrysene	ND	0.20		µg/L	1	7/20/2005 3:12:42 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	7/20/2005 3:12:42 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	7/20/2005 3:12:42 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	7/20/2005 3:12:42 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	7/20/2005 3:12:42 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	7/20/2005 3:12:42 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	7/20/2005 3:12:42 PM
Surr: Benzo(e)pyrene	87.4	54-102		%REC	1	7/20/2005 3:12:42 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 29-Jul-05

CLIENT: San Juan Refining
 Lab Order: 0507047
 Project: River Terrace - 7/05
 Lab ID: 0507047-02

Client Sample ID: River near MW #49
 Collection Date: 7/6/2005 11:10:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/20/2005 11:26:24 AM
Benzene	ND	0.50		µg/L	1	7/20/2005 11:26:24 AM
Toluene	ND	0.50		µg/L	1	7/20/2005 11:26:24 AM
Ethylbenzene	ND	0.50		µg/L	1	7/20/2005 11:26:24 AM
Xylenes, Total	ND	0.50		µg/L	1	7/20/2005 11:26:24 AM
Surr: 4-Bromofluorobenzene	96.2	83.3-121		%REC	1	7/20/2005 11:26:24 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Jul-05

CLIENT: San Juan Refining
Lab Order: 0507047
Project: River Terrace - 7/05
Lab ID: 0507047-03

Client Sample ID: MW #48
Collection Date: 7/6/2005 10:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	6.5	1.0		mg/L	1	7/12/2005 6:35:59 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/12/2005 6:35:59 AM
Surr: DNOP	137	58-140		%REC	1	7/12/2005 6:35:59 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	26	2.0		mg/L	40	7/19/2005 4:09:37 PM
Surr: BFB	111	78.3-120		%REC	40	7/19/2005 4:09:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	40	7/19/2005 4:09:37 PM
Benzene	730	20		µg/L	40	7/19/2005 4:09:37 PM
Toluene	ND	20		µg/L	40	7/19/2005 4:09:37 PM
Ethylbenzene	2000	20		µg/L	40	7/19/2005 4:09:37 PM
Xylenes, Total	11000	100		µg/L	200	7/20/2005 11:57:20 AM
Surr: 4-Bromofluorobenzene	112	83.3-121		%REC	40	7/19/2005 4:09:37 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	410	13		µg/L	5	7/28/2005 5:58:30 AM
1-Methylnaphthalene	97	2.5		µg/L	1	7/20/2005 4:00:40 PM
2-Methylnaphthalene	120	2.5		µg/L	1	7/20/2005 4:00:40 PM
Acenaphthylene	ND	2.5		µg/L	1	7/20/2005 4:00:40 PM
Acenaphthene	ND	2.5		µg/L	1	7/20/2005 4:00:40 PM
Fluorene	0.87	0.80		µg/L	1	7/20/2005 4:00:40 PM
Phenanthrene	2.5	0.60		µg/L	1	7/20/2005 4:00:40 PM
Anthracene	ND	0.60		µg/L	1	7/20/2005 4:00:40 PM
Fluoranthene	ND	0.30		µg/L	1	7/20/2005 4:00:40 PM
Pyrene	ND	0.30		µg/L	1	7/20/2005 4:00:40 PM
Benz(a)anthracene	ND	0.020		µg/L	1	7/20/2005 4:00:40 PM
Chrysene	ND	0.20		µg/L	1	7/20/2005 4:00:40 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	7/20/2005 4:00:40 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	7/20/2005 4:00:40 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	7/20/2005 4:00:40 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	7/20/2005 4:00:40 PM
Benzo(g,h,i)perylene	0.16	0.030		µg/L	1	7/20/2005 4:00:40 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	7/20/2005 4:00:40 PM
Surr: Benzo(e)pyrene	90.1	54-102		%REC	1	7/20/2005 4:00:40 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 29-Jul-05

CLIENT: San Juan Refining
 Lab Order: 0507047
 Project: River Terrace - 7/05
 Lab ID: 0507047-04

Client Sample ID: TRIP BLANK
 Collection Date:
 Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/19/2005 4:41:39 PM
Surr: BFB	95.1	78.3-120		%REC	1	7/19/2005 4:41:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/19/2005 4:41:39 PM
Benzene	ND	0.50		µg/L	1	7/19/2005 4:41:39 PM
Toluene	ND	0.50		µg/L	1	7/19/2005 4:41:39 PM
Ethylbenzene	ND	0.50		µg/L	1	7/19/2005 4:41:39 PM
Xylenes, Total	ND	0.50		µg/L	1	7/19/2005 4:41:39 PM
Surr: 4-Bromofluorobenzene	99.8	83.3-121		%REC	1	7/19/2005 4:41:39 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Jul-05

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0507047
 Project: River Terrace - 7/05

Sample ID	MB-8317	Batch ID:	8317	Test Code:	SW8015	Units:	mg/L	Analysis Date	7/12/2005 4:23:35 AM	Prep Date	7/11/2005
Client ID:		Run ID:	FID(17A)2_050711A <th>SeqNo:</th> <td>379148</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	379148						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.127	0	1	0	113	58	140	0			

Sample ID	Reagent Blank	Batch ID:	R16034	Test Code:	SW8015	Units:	mg/L	Analysis Date	7/19/2005 9:21:22 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050719A <th>SeqNo:</th> <td>381013</td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	381013						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.0116	0.05									J
Surr: BFB	18.73	0	20	0	93.6	78.3	120	0			

Sample ID	Reagent Blank	Batch ID:	R16047	Test Code:	SW8015	Units:	mg/L	Analysis Date	7/20/2005 9:18:20 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050720A <th>SeqNo:</th> <td>381413</td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	381413						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.014	0.05									J
Surr: BFB	19.3	0	20	0	96.5	78.3	120	0			

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

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0507047
 Project: River Terrace - 7/05

Sample ID	Reagent Blank	Batch ID: R16034	Test Code: SW8021	Units: µg/L	Analysis Date 7/19/2005 9:21:22 AM	Prep Date					
Client ID:	Run ID: PIDFID_050719A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	18.86	0	20	0	94.3	83.3	121	0			

Sample ID	Reagent Blank	Batch ID: R16047	Test Code: SW8021	Units: µg/L	Analysis Date 7/20/2005 9:18:20 AM	Prep Date					
Client ID:	Run ID: PIDFID_050720A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	19.53	0	20	0	97.7	83.3	121	0			

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

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
Work Order: 0507047
Project: River Terrace - 7/05

Sample ID MB-8318 **Batch ID:** 8318 **Test Code:** SW8310 **Units:** µg/L **Analysis Date** 7/20/2005 10:26:02 AM **Prep Date** 7/11/2005
Client ID: **Run ID:** HUGO_050719A **SeqNo:** 382145

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.8									
Phenanthrene	ND	0.6									
Anthracene	ND	0.6									
Fluoranthene	ND	0.3									
Pyrene	ND	0.3									
Benz(a)anthracene	ND	0.02									
Chrysene	ND	0.2									
Benzo(b)fluoranthene	ND	0.05									
Benzo(k)fluoranthene	ND	0.02									
Benzo(a)pyrene	ND	0.02									
Dibenz(a,h)anthracene	ND	0.04									
Benzo(g,h,i)perylene	ND	0.03									
Indeno(1,2,3-cd)pyrene	ND	0.08									
Surr: Benzo(e)pyrene	7.6	0	10	0	76.0	54	102	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 29-Jul-05

QC SUMMARY REPORT
Sample Matrix Spike

CLIENT: San Juan Refining
Work Order: 0507047
Project: River Terrace - 7/05

Sample ID	0507047-01a ms	Batch ID: R16034	Test Code: SW8015	Units: mg/L	Analysis Date	7/19/2005 2:34:33 PM	Prep Date				
Client ID:	MW #49	Run ID:	PIDFID_050719A	SeqNo:	381025						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.7948	0.05	0.5	0.327	93.6	82.6	114	0			
Surr: BFB	26.95	0	25	0	108	78.3	120	0			

Sample ID	0507047-01a msd	Batch ID: R16034	Test Code: SW8015	Units: mg/L	Analysis Date	7/19/2005 3:06:18 PM	Prep Date				
Client ID:	MW #49	Run ID:	PIDFID_050719A	SeqNo:	381027						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.7952	0.05	0.5	0.327	93.6	82.6	114	0.7948	0.0503	8.39	
Surr: BFB	26.69	0	25	0	107	78.3	120	26.95	0.979	0	

Sample ID	0507047-01a ms	Batch ID: R16034	Test Code: SW8021	Units: µg/L	Analysis Date	7/19/2005 2:34:33 PM	Prep Date				
Client ID:	MW #49	Run ID:	PIDFID_050719A	SeqNo:	380908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	44.39	0.5	8	35.48	111	88.7	114	0			
Toluene	33.33	0.5	34	0.29	97.2	89.3	112	0			
Ethylbenzene	15.83	0.5	12	3.776	100	88.6	113	0			
Xylenes, Total	37.28	0.5	34	5.131	94.6	89.4	112	0			
Surr: 4-Bromofluorobenzene	25.75	0	25	0	103	83.3	121	0			

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

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0507047
 Project: River Terrace - 7/05

Sample ID	0507047-01a msd	Batch ID: R16034	Test Code: SW8021	Units: µg/L	Analysis Date	7/19/2005 3:06:18 PM	Prep Date				
Client ID:	MW #49	Run ID:	PIDFID_050719A		SeqNo:	380909					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.83	0.5	8	35.48	79.4	88.7	114	44.39	5.93	27	S
Toluene	33.04	0.5	34	0.29	96.3	89.3	112	33.33	0.879	19	
Ethylbenzene	15.32	0.5	12	3.776	96.2	88.6	113	15.83	3.29	10	
Xylenes, Total	37.48	0.5	34	5.131	95.2	89.4	112	37.28	0.549	13	
Surr: 4-Bromofluorobenzene	25.98	0	25	0	104	83.3	121	25.75	0.895	0	

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

Hall Environmental Analysis Laboratory

Date: 29-Jul-05

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0507047
 Project: River Terrace - 7/05

Sample ID	LCS-8317	Batch ID:	8317	Test Code:	SW8015	Units:	mg/L	Analysis Date	7/12/2005 4:56:42 AM	Prep Date	7/11/2005
Client ID:		Run ID:	FID(17A) 2_050711A <th>SeqNo:</th> <td>379149</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	379149						
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	
Diesel Range Organics (DRO)		5.736	1	5	0	0	0	0	0	115	81.2
											149
											0

Sample ID	LCS-8317	Batch ID:	8317	Test Code:	SW8015	Units:	mg/L	Analysis Date	7/12/2005 5:29:47 AM	Prep Date	7/11/2005
Client ID:		Run ID:	FID(17A) 2_050711A <th>SeqNo:</th> <td>379150</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	379150						
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	
Diesel Range Organics (DRO)		6.942	1	5	0	0	0	0	0	139	81.2
											149
											5.736
											19.0

Sample ID	LCS-8317	Batch ID:	8317	Test Code:	SW8015	Units:	mg/L	Analysis Date	7/20/2005 7:58:28 AM	Prep Date	7/11/2005
Client ID:		Run ID:	FID(17A) 2_050719A <th>SeqNo:</th> <td>381026</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	381026						
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	
Diesel Range Organics (DRO)		10.94	1	10	0	0	0	0	0	109	81.2
											149
											5.736
											62.4

Sample ID	GRO lcs 2.5ug	Batch ID:	R16034	Test Code:	SW8015	Units:	mg/L	Analysis Date	7/20/2005 1:02:35 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050719A <th>SeqNo:</th> <td>381015</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	381015						
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	
Gasoline Range Organics (GRO)		0.4292	0.05	0.5	0.0116	0	0	0	0	83.5	82.6
											114
											0

Sample ID	GRO lcs 2.5ug	Batch ID:	R16047	Test Code:	SW8015	Units:	mg/L	Analysis Date	7/21/2005 2:57:29 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050720A <th>SeqNo:</th> <td>381592</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	381592						
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	
Gasoline Range Organics (GRO)		0.456	0.05	0.5	0.014	0	0	0	0	88.4	82.6
											114
											0

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

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0507047
 Project: River Terrace - 7/05

Sample ID: GRO Icsd 2.5ug Batch ID: R16047 Test Code: SW8015 Units: mg/L Analysis Date: 7/21/2005 3:27:42 AM Prep Date:
 Client ID: Run ID: PIDFID_050720A SeqNo: 381593

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4874	0.05	0.5	0.014	94.7	82.6	114	0.456	6.66	8.39	

Sample ID: BTEX Ics 100ng Batch ID: R16034 Test Code: SW8021 Units: µg/L Analysis Date: 7/20/2005 2:03:39 AM Prep Date:
 Client ID: Run ID: PIDFID_050719A SeqNo: 380901

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	23.56	2.5	40	0	58.9	64.5	133	0			S
Benzene	20.04	0.5	20	0	100	88.7	114	0			
Toluene	19.49	0.5	20	0	97.4	89.3	112	0			
Ethylbenzene	19.32	0.5	20	0	96.6	88.6	113	0			
Xylenes, Total	39.2	0.5	60	0	65.3	89.4	112	0			S

Sample ID: BTEX Ics 100ng Batch ID: R16047 Test Code: SW8021 Units: µg/L Analysis Date: 7/20/2005 9:52:32 PM Prep Date:
 Client ID: Run ID: PIDFID_050720A SeqNo: 381330

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	26.36	2.5	20	0	132	64.5	133	0			
Benzene	20.03	0.5	20	0	100	88.7	114	0			
Toluene	19.28	0.5	20	0	96.4	89.3	112	0			
Ethylbenzene	19.56	0.5	20	0	97.8	88.6	113	0			
Xylenes, Total	39.49	0.5	40	0	98.7	89.4	112	0			

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining

Work Order: 0507047

Project: River Terrace - 7/05

Sample ID LC8-8318 Batch ID: 8318 Test Code: SW8310 Units: µg/L Analysis Date 7/20/2005 1:36:45 PM Prep Date 7/11/2005

Client ID: Run ID: HUGO_050719A SeqNo: 382149

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	25.93	2.5	40	0	64.8	34.8	97.4	0			
1-Methylnaphthalene	26.49	2.5	40.1	0	66.1	34.7	100	0			
2-Methylnaphthalene	25.69	2.5	40	0	64.2	35	98.1	0			
Acenaphthylene	28.76	2.5	40.1	0	71.7	48.3	95.1	0			
Acenaphthene	27.51	2.5	40	0	68.8	45	95	0			
Fluorene	2.8	0.8	4.01	0	69.8	46.8	93.4	0			
Phenanthrene	1.5	0.6	2.01	0	74.6	48.7	104	0			
Anthracene	1.51	0.6	2.01	0	75.1	47.5	102	0			
Fluoranthene	3.26	0.3	4.01	0	81.3	46.3	108	0			
Pyrene	3.01	0.3	4.01	0	75.1	43.8	109	0			
Benz(a)anthracene	0.33	0.02	0.401	0	82.3	40.3	115	0			
Chrysene	1.61	0.2	2.01	0	80.1	42.6	107	0			
Benzo(b)fluoranthene	0.36	0.05	0.501	0	71.9	48.6	107	0			
Benzo(k)fluoranthene	0.2	0.02	0.25	0	80.0	23.3	136	0			
Benzo(a)pyrene	0.18	0.02	0.251	0	71.7	33.4	117	0			
Dibenz(a,h)anthracene	0.42	0.04	0.501	0	83.8	27.3	139	0			
Benzo(g,h,i)perylene	0.38	0.03	0.5	0	76.0	38.2	117	0			
Indeno(1,2,3-cd)pyrene	0.798	0.08	1.002	0	79.6	39.9	125	0			

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

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0507047
 Project: River Terrace - 7/05

Sample ID	LCSD-8318	Batch ID: 8318	Test Code: SW8310	Units: µg/L	Analysis Date	7/20/2005 2:24:43 PM	Prep Date	7/11/2005			
Client ID:	HUGO_050719A		Run ID:	382155							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	29.45	2.5	40	0	73.6	34.8	97.4	25.93	12.7	32.1	
1-Methylnaphthalene	28.7	2.5	40.1	0	71.6	34.7	100	26.49	8.01	32.7	
2-Methylnaphthalene	28.1	2.5	40	0	70.3	35	98.1	25.69	8.96	34	
Acenaphthylene	30.25	2.5	40.1	0	75.4	48.3	95.1	28.76	5.03	38.8	
Acenaphthene	29.16	2.5	40	0	72.9	45	95	27.51	5.82	38.6	
Fluorene	2.9	0.8	4.01	0	72.3	46.8	93.4	2.8	3.51	39.3	
Phenanthrene	1.6	0.6	2.01	0	79.6	48.7	104	1.5	6.45	25	
Anthracene	1.59	0.6	2.01	0	79.1	47.5	102	1.51	5.16	23.9	
Fluoranthene	3.32	0.3	4.01	0	82.8	46.3	108	3.26	1.82	15.7	
Pyrene	3.05	0.3	4.01	0	76.1	43.8	109	3.01	1.32	15.3	
Benz(a)anthracene	0.32	0.02	0.401	0	79.8	40.3	115	0.33	3.08	119	
Chrysene	1.51	0.2	2.01	0	75.1	42.6	107	1.61	6.41	16.6	
Benzo(b)fluoranthene	0.36	0.05	0.501	0	71.9	48.6	107	0.36	0	21.7	
Benzo(k)fluoranthene	0.21	0.02	0.25	0	84.0	23.3	136	0.2	4.88	19.4	
Benzo(a)pyrene	0.2	0.02	0.251	0	79.7	33.4	117	0.18	10.5	16.7	
Dibenz(a,h)anthracene	0.43	0.04	0.501	0	85.8	27.3	139	0.42	2.35	17.3	
Benzo(g,h,i)perylene	0.39	0.03	0.5	0	78.0	38.2	117	0.38	2.60	118	
Indeno(1,2,3-cd)pyrene	0.814	0.08	1.002	0	81.2	39.9	125	0.798	1.99	17.7	

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

Work Order Number 0507047

Received by AT

Checklist completed by [Signature] 7/7/05
Signature Date

Matrix Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? 1° *4° C ± 2 Acceptable*
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments:

Corrective Action _____

COVER LETTER

July 20, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: TK #33 Effluent

Order No.: 0507046

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 2 samples on 7/7/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 20-Jul-05

CLIENT: San Juan Refining
 Project: TK #33 Effluent

Lab Order: 0507046

Lab ID: 0507046-01

Collection Date: 7/6/2005 11:30:00 AM

Client Sample ID: TK #33

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	7/19/2005 1:00:36 PM
Toluene	ND	0.50		µg/L	1	7/19/2005 1:00:36 PM
Ethylbenzene	ND	0.50		µg/L	1	7/19/2005 1:00:36 PM
Xylenes, Total	ND	0.50		µg/L	1	7/19/2005 1:00:36 PM
Surr: 4-Bromofluorobenzene	102	83.3-121		%REC	1	7/19/2005 1:00:36 PM

Lab ID: 0507046-02

Collection Date: 7/6/2005 11:35:00 AM

Client Sample ID: Fresh Water Pond

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	7/19/2005 1:31:41 PM
Toluene	ND	0.50		µg/L	1	7/19/2005 1:31:41 PM
Ethylbenzene	ND	0.50		µg/L	1	7/19/2005 1:31:41 PM
Xylenes, Total	ND	0.50		µg/L	1	7/19/2005 1:31:41 PM
Surr: 4-Bromofluorobenzene	97.5	83.3-121		%REC	1	7/19/2005 1:31:41 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 20-Jul-05

CLIENT: San Juan Refining
Work Order: 0507046
Project: TK #33 Effluent
QC SUMMARY REPORT
 Method Blank

Sample ID	Reagent Blank	Batch ID: R16034	Test Code: SW8021	Units: µg/L	Analysis Date 7/19/2005 9:21:22 AM	Prep Date			
Client ID:	Run ID: PIDFID_050719A	SeqNo: 380900	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5							
Toluene	ND	0.5							
Ethylbenzene	ND	0.5							
Xylenes, Total	ND	0.5							
Surr: 4-Bromofluorobenzene	18.86	0	20	0	94.3	83.3	121	0	

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

Hall Environmental Analysis Laboratory

Date: 20-Jul-05

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0507046
Project: TK #33 Effluent

Sample ID BTEX Ics 100ng Batch ID: R16034 Test Code: SW8021 Units: µg/L Analysis Date 7/20/2005 2:03:39 AM Prep Date
Client ID: Run ID: PIDFID_050719A SeqNo: 380901

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.04	0.5	20	0	100	88.7	114	0			
Toluene	19.49	0.5	20	0	97.4	89.3	112	0			
Ethylbenzene	19.32	0.5	20	0	96.6	88.6	113	0			
Xylenes, Total	39.2	0.5	60	0	65.3	89.4	112	0			S

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

Work Order Number 0507046

Received by AT

Checklist completed by [Signature] 7/7/05
Signature Date

Matrix Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? **10°** 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

GIANT

REFINING COMPANY
Wayne Price

New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Dr
Santa Fe, NM 87505

RECEIVED

JUN 20 2005

OIL CONSERVATION
DIVISION

Certified Mail: 7001 1140 0000 4022 0828

June 17, 2005

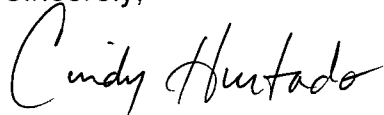
**RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001**

Dear Mr. Price,

Please find attached draft results of all analytical and collected data requested by NMED as a condition of approval for the North Boundary Barrier Collection System Design and Monitoring Plan Phase II. Please note that RW #1, RW #9, RW #22, RW #23, and RW #28 are active recovery wells and were not measured. MW #24 was designed for air sparging activities and does not accommodate monitoring.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,



Cindy Hurtado
Environmental Assistant
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Supervisor – Giant Refining

PHONE

505-632-8013

FAX

505-632-3911

50 ROAD 4990

P.O. BOX 159

BLOOMFIELD

NEW MEXICO

87413

PHASE II Collected Data - 2005

	May 9, 2005		May 12, 2005		May 17, 2005		May 19, 2005		May 24, 2005		May 26, 2005		May 31, 2005		Total Well Depth
	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	
OW 0+60	14.03	13.61	14.09	13.63	14.31	13.26	14.16	13.69	14.22	13.72	14.28	13.74	14.44	13.75	14.98
OW 1+50	13.21	13.19	14.29	13.22	14.13	13.65	14.25	13.28	14.35	13.33	14.38	13.36	14.42	13.41	14.98
OW 3+85	13.10	11.95	13.1	11.95	13.14	12.02	13.18	12.03	13.22	12.07	13.24	12.1	13.31	12.13	15.06
OW 5+50	Dry	Dry	Dry	13.88	13.16	12.02	Dry	13.4	Dry	13.27	Dry	13.24	Dry	13.22	14.09
OW 6+70	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	14.67
OW 8+10	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	17.99
OW 11+15	11.45	0	11.5	0	11.49	0	11.52	0	11.54	0	11.55	0	11.56	0	16.67
OW 14+10	12.25	0	12.3	0	12.3	0	12.32	0	12.33	0	12.3	0	12.37	12.36	13.03
OW 16+60	12.78	11.92	12.78	11.9	12.79	12.02	12.83	12.02	12.78	12.06	12.79	12.03	12.74	12.11	15.21
OW 19+50	11.27	0	11.93	0	12.64	0	12.38	0	12.03	0	11.94	0	11.8	0	13.07
OW 22+00	10.62	0	10.67	0	10.73	0	10.72	0	10.73	0	10.75	0	10.77	0	14.31
OW 23+10	13.58	0	13.58	0	13.63	0	13.62	0	13.62	0	13.61	0	13.61	0	15.79
OW 23+90	13.96	0	13.96	0	14.01	0	13.99	0	13.99	0	13.99	0	13.98	0	15.07
OW 25+70	10.69	0	10.69	0	10.71	0	10.72	0	10.72	0	10.72	0	10.72	0	14.01

DTW = Depth to Water

DTP = Depth to Product

PHASE II Collected Data - 2005

	May 9, 2005		May 12, 2005		May 17, 2005		May 19, 2005		May 24, 2005		May 26, 2005		May 31, 2005		Total Well Depth
	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	
CW 0+60	8.68	0	8.74	0	8.76	0	8.79	0	8.8	0	8.82	0	8.82	0	14.93
CW 1+50	6.71	0	6.76	0	6.8	0	6.82	0	6.82	0	6.83	0	6.85	0	13.84
CW 3+85	7.41	0	7.51	0	7.48	0	7.52	0	7.56	0	7.52	0	7.52	0	15.21
CW 5+50	7.37	0	7.4	0	7.37	0	7.4	0	7.38	0	7.38	0	7.38	0	13.45
CW 6+70	7.80	0	7.91	0	7.86	0	7.9	0	7.88	0	7.89	0	7.85	0	12.7
CW 8+10	7.78	0	7.85	0	7.8	0	7.88	0	7.84	0	7.86	0	7.85	0	12.02
CW 8+45	9.78	9.32	9.64	9.44	9.77	9.35	9.74	9.46	9.6	9.42	9.7	9.37	9.86	9.38	14.95
CW 11+15	7.39	7.27	7.39	7.35	7.41	7.34	7.5	7.4	7.47	7.37	7.42	7.32	7.47	7.37	13.88
CW 14+10	7.43	0	7.52	0	7.45	0	7.56	0	7.54	0	7.52	0	7.52	0	14.09
CW 16+60	8.34	0	8.39	0	8.35	0	8.36	0	8.38	0	8.39	0	8.4	0	14.87
CW 19+50	8.58	0	8.61	0	8.57	0	8.66	0	8.62	0	8.63	0	8.61	0	12.07
CW 22+00	10.97	0	10.98	0	10.98	0	11	0	11	0	11	0	10.77	0	14.1
CW 23+10	11.53	0	11.53	0	11.53	0	11.56	0	11.54	0	11.55	0	11.55	0	15.5
CW 23+90	9.27	0	9.27	0	9.28	0	9.29	0	9.28	0	9.28	0	9.27	0	12.66
CW 25+95	9.02	0	9.02	0	9.02	0	9.02	0	9.01	0	9.02	0	9.01	0	14.07

DTW = Depth to Water

DTP = Depth to Product

PHASE II Collected Data - 2005

	May 9, 2005		May 12, 2005		May 17, 2005		May 19, 2005		May 24, 2005		May 26, 2005		May 31, 2005		Total Well Depth
	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	
MW #11	11.30	0	11.32	0	11.35	0	11.37	0	11.43	0	11.4	0	11.5	0	22.94
MW #12	10.43	0	10.45	0	10.51	0	10.57	0	10.68	0	10.63	0	10.85	0	14.98
MW #20	21.18	20.91	21.2	20.92	21.18	20.89	21.2	20.93	21.19	20.91	21.2	20.91	21.18	20.9	27.13
MW #21	21.99	21.98	21.98	21.97	21.97	21.96	21.97	21.98	21.98	21.97	21.97	21.96	21.98	21.97	30.38
MW #39	29.46	0	29.18	0	28.72	0	28.58	0	28.35	0	28.51	0	28.34	0	38.34
MW #45	11.98	11.65	11.43	11.07	11.41	11.03	11.59	11.15	11.58	11.12	11.57	11.11	11.56	11.11	16.92
MW #46	10.28	0	10.28	0	10.27	0	10.26	0	10.28	0	10.28	0	10.27	0	10.39
MW #47	12.58	11.6	12.71	11.71	12.84	11.72	12.81	11.74	12.86	11.74	12.84	11.73	12.83	11.72	14.28

RW #1, RW #9, RW #22, RW #23, RW #28 are active recovery wells and were not measured.

MW #24 was designed for air sparging activities and does not accommodate monitoring

DTW = Depth to Water

DTP = Depth to Product

PHASE II MONITORING - 2005

General Chemistry - Observation Wells

		EPA Method 300.0										Field Data			
DATE SAMPLED	mg/L Fluoride	mg/L Chloride	mg/L P	mg/L Sulfate	mg/L Nitrate	mg/L E.C.	pH	Fahrenheit Temp.	mg/L D.O.	mg/L TDS					
WQCC 20NMAC 6.2.3103	1.6	250		600	10		6.0-9.0			1000					
OW 0+60	Well	Not	Sampled			no sample	well	contains	hydro-	carbons					
OW 1+50	Well	Not	Sampled			no sample	well	contains	hydro-	carbons					
OW 3+85	Well	Not	Sampled			no sample	well	contains	hydro-	carbons					
OW 5+50	Well	Not	Sampled			no sample	well	dry							
OW 6+70	Well	Not	Sampled			no sample	well	dry							
OW 8+10	Well	Not	Sampled			no sample	well	dry							
OW 11+15	0.43	320	<.5	130	<.5	2507	6.9	57	7	1951					
OW 14+10	0.53	73	<.5	350	<.5	2311	6.95	60	13.1	1784					
OW 16+60	Well	Not	Sampled			no sample	well	contains	hydro-	carbons					
OW 19+50	0.36	290	<.5	290	<.5	2896	6.82	58	>13.0	2288					
OW 22+00	0.78	480	<.5	140	<.5	2928	6.84	57	>13.0	2311					
OW 23+10	Not	Enough	Water	To	Sample	2678	6.96	59	trace water	2095					
OW 23+90	0.72	320	<.5	77	<.1	2268	6.97	60	trace water	1747					
OW 25+70	0.53	50	<.5	350	<.1	1303	6.94	56	7.7	963					

PHASE II MONITORING - 2005

General Chemistry - Collection Wells

EPA Method 300.0											Field Data				
DATE SAMPLED	mg/L Fluoride	mg/L Chloride	mg/L P	mg/L Sulfate	mg/L Nitrate	mg/L E.C.	pH	Farenheit Temp.	mg/L D.O.	mg/L TDS					
WQCC 20NIMAC 6.2.3103	1.6	250		600	10		6.0-9.0			1000					
CW 0+60	0.51	39	<.5	75	<.5	1378	6.82	55	>13.0	1023					
CW 1+50	0.59	43	<.5	5.8	<.5	1463	6.86	56	7.1	1084					
CW 3+85	0.21	270	<.5	32	<.5	2880	6.87	56	>13.0	2270					
CW 5+50	0.33	2700	<.5	75	<.5	8765	6.81	56	8.5	7762					
CW 6+70	<.5	2400	<.5	170	<.5	8175	6.86	55	8.7	7191					
CW 8+10	0.29	1100	<.5	720	<.5	5199	6.83	55	8	4358					
CW 8+45	Well	Not	Sampled			no sample	well	contains	hydro-	carbons					
CW 11+15	Well	Not	Sampled			no sample	well	contains	hydro-	carbons					
CW 14+10	2.1	78	<.5	2300	<.5	4103	6.85	58	6.5	3353					
CW 16+60	0.42	150	<.5	150	<.5	2420	6.91	60	7.4	1875					
CW 19+50	0.35	230	<.5	260	<.5	2844	6.83	56	9.3	6724					
CW 22+00	0.74	510	<.5	38	<.5	3202	6.83	57	12.2	2548					
CW 23+10	0.59	450	<.5	9.7	<.5	3046	6.92	54	7.8	2425					
CW 23+90	0.39	350	<.5	4.9	<.1	2702	6.86	55	7.6	2124					
CW 25+95	0.43	85	<.5	270	<.1	1287	6.92	56	8.2	949					

PHASE II MONITORING - 2005

BTEX & Total Metals - Collection Wells

DATE SAMPLED	EPA Method 8021B						EPA Method 6010C									
	mg/L Benzene	mg/L Toluene	mg/L EthylBen	mg/L Xylene	40CFR 141.62	mg/L Arsenic	mg/L Barium	mg/L Cadmium	mg/L Cr	mg/L Lead	mg/L Se	mg/L Silver	mg/L Mercury			
WQCC 20NMAC 6.2.3103	0.01	0.75	0.75	0.62	MCL	0.05	2	0.005	0.1	0.015	0.05	0.05	0.002			
CW 0+60	0.2	0.032	0.18	1		<.02	0.33	<.002	<.006	0.012	<.05	<.005	<.0002			
CW 1+50	1.2	0.041	0.24	2.3		<.02	0.59	<.002	<.006	0.007	<.05	<.005	<.0002			
CW 3+85	0.035	0.022	0.02	0.25		<.02	0.68	<.002	<.006	<.005	<.05	<.005	<.0002			
CW 5+50	0.2	0.011	0.064	0.24		<.02	0.83	<.002	<.006	<.005	<.05	<.005	<.0002			
CW 6+70	0.0027	<.5	<.5	0.0013		<.02	0.34	<.002	<.006	<.005	<.05	<.005	<.0002			
CW 8+10	0.43	<.00025	0.051	0.66		<.02	0.49	<.002	<.006	<.005	<.05	<.005	<.0002			
CW 8+45	Well	Not	Sampled			no sample	well	contains	hydro-	carbons						
CW 11+15	Well	Not	Sampled			no sample	well	contains	hydro-	carbons						
CW 14+10	9.8	<.00025	2.1	1.3		<.1	0.33	<.01	<.03	<.025	<.25	<.025	<.0002			
CW 16+60	5.3	0.075	3.8	7.3		<.02	0.6	<.002	<.006	0.01	<.05	<.005	<.0002			
CW 19+50	4.8	0.021	1.7	5.1		<.02	0.2	<.002	<.006	0.0061	<.05	<.005	<.0002			
CW 22+00	7	0.09	0.095	0.2		<.02	0.61	<.002	<.006	<.005	<.05	<.005	<.0002			
CW 23+10	6.3	0.076	0.19	3.5		<.02	0.73	<.002	<.006	<.005	<.05	<.005	0.00038			
CW 23+90	3.4	0.035	0.17	0.4		<.02	0.4	<.002	<.006	<.005	<.05	<.005	<.0002			
CW 25+95	0.001	<.0005	<.0005	<.0005		<.02	0.085	<.002	<.006	<.005	<.05	<.005	<.0002			

PHASE II MONITORING - 2005

BTEX & Total Metals - Observation Wells

	EPA Method 8021B										EPA Method 6010C EPA Method 7470: Mercury						
	DATE SAMPLED	mg/L Benzene	mg/L Toluene	mg/L EthylBen	mg/L Xylene	40CFR 141.62	mg/L Arsenic	mg/L Barium	mg/L Cadmium	mg/L Cr	mg/L Lead	mg/L Se	mg/L Silver	mg/L Mercury			
WQCC 20NMAC 6.2.3103		0.01	0.75	0.75	0.62	MCL	0.05	2	0.005	0.1	0.015	0.05	0.05	0.002			
OW 0+60	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons						
OW 1+50	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons						
OW 3+85	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons						
OW 5+50	5/9/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons						
OW 6+70	5/9/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons						
OW 8+10	5/9/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons						
OW 11+15	5/11/05	0.42	<.00025	0.14	0.52		0.037	1.9	<.002	0.02	0.028	<.05	<.005	<.0002			
OW 14+10	5/11/05	10	<.0005	3.9	3.2		0.11	11	<.002	0.09	0.73	<.05	<.005	<.0002			
OW 16+60	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons						
OW 19+50	5/10/05	1.9	0.013	0.86	3.2		<.02	0.23	<.002	<.006	0.024	<.05	<.005	<.0002			
OW 22+00	5/10/05	3.1	0.045	0.15	0.34		<.02	0.16	<.002	<.006	0.012	<.05	<.005	<.0002			
OW 23+10	5/10/05	0.34	0.0092	0.011	0.08		<.02	0.75	<.002	0.02	0.0091	<.05	<.005	0.00096			
OW 23+90	5/12/05	0.98	0.016	0.031	0.13		Not	enough	water	to	sample						
OW 25+70	5/12/05	0.00079	<.0005	<.0005	<.0005		0.14	25	<.01	0.44	0.13	<.025	<.025	<.0002			

GIANT

REFINING COMPANY

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

Certified Mail: 7004 2510 0005 1641 4439

July 15, 2005

**RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001**

Dear Mr. Price,

Please find attached draft results of collected data from June 2005 requested by NMED as a condition of approval for the North Boundary Barrier Collection System Design and Monitoring Plan Phase II.

Please note that RW #1, RW #9, RW #22, RW #23, and RW #28 are active recovery wells and were not measured. MW #24 was designed for air sparging activities and does not accommodate monitoring.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,



Cindy Hurtado
Environmental Assistant
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Supervisor – Giant Refining

PHONE
505-632-8013
FAX
505-632-3911

50 ROAD 4990
P.O. BOX 159
BLOOMFIELD
NEW MEXICO
87413

PHASE II Collected Data - June 2005

	June 2, 2005		June 7, 2005		June 9, 2005		June 14, 2005		June 14, 2005		June 16, 2005		June 21, 2005		June 23, 2005		June 28, 2005		Total Well Depth
	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	
OW 0+60	14.46	13.77	174.4	13.75	14.45	13.78	14.49	13.93	14.49	13.91	14.48	13.93	14.48	13.9	14.49	13.92			14.98
OW 1+50	14.43	13.43	14.41	13.37	14.44	13.44	14.56	13.6	14.51	13.56	14.5	13.57	14.49	13.57	14.51	13.58			14.98
OW 3+85	13.32	12.16	13.33	12.17	13.34	12.18	13.43	12.24	13.43	12.25	13.42	12.25	13.52	12.32	13.53	12.31			15.06
OW 5+50	0.00	13.22	0	13.21	0	13.22	0	13.28	0	13.29	0	13.3	0	13.31	0	13.32			14.09
OW 6+70	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry			14.67
OW 8+10	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry			17.99
OW 11+15	11.55	0	11.57	0	11.56	0	11.59	0	11.6	0	11.61	0	11.62	0	11.62	0			16.67
OW 14+10	12.38	12.37	12.37	12.36	12.35	12.34	12.46	12.43	12.46	12.43	12.46	12.42	12.54	12.5	12.59	12.5			13.03
OW 16+60	12.84	12.12	12.74	12.1	12.8	12.12	12.94	12.21	12.95	12.2	12.94	12.22	12.97	12.28	12.94	12.43			15.21
OW 19+50	11.77	0	11.76	0	11.77	0	11.83	0	11.85	0	11.84	0	11.94	0	11.97	0			13.07
OW 22+00	10.78	0	10.79	0	10.79	0	11.11	0	11.14	0	11.2	0	11.14	0	11.26	0			14.31
OW 23+10	13.61	0	13.62	0	13.63	0	13.64	0	13.63	0	13.66	0	13.63	0	13.64	0			15.79
OW 23+90	13.99	0	14	0	14	0	14	0	14	0	14.01	0	14.01	0	14.01	0			15.07
OW 25+70	10.71	0	10.72	0	10.73	0	10.73	0	10.73	0	10.72	0	10.73	0	10.72	0			14.01

DTW = Depth to Water

DTP = Depth to Product

PHASE II Collected Data - June 2005

	June 2, 2005		June 7, 2005		June 9, 2005		June 14, 2005		June 16, 2005		June 21, 2005		June 23, 2005		June 28, 2005		Total Well Depth
	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	
CW 0+60	8.83	0	8.82	0	8.85	0	8.9	0	8.88	0	8.84	0	8.89	0	8.91	0	14.93
CW 1+50	6.82	0	6.83	0	6.81	0	6.85	0	6.8	0	6.81	0	6.81	0	6.87	0	13.84
CW 3+85	7.50	0	7.51	0	7.49	0	7.41	0	7.52	0	7.52	0	7.53	0	7.52	0	15.21
CW 5+50	7.37	0	7.38	0	7.36	0	7.38	0	7.38	0	7.39	0	7.37	0	7.36	0	13.45
CW 6+70	7.87	0	7.86	0	7.86	0	7.9	0	7.9	0	7.91	0	7.9	0	7.9	0	12.7
CW 8+10	7.85	0	7.86	0	7.87	0	7.9	0	7.89	0	7.9	0	7.87	0	7.87	0	12.02
CW 8+45	9.52	9.43	9.6	9.4	9.73	9.44	11.59	9.5	9.53	9.49	9.62	9.47	9.49	9.47	9.55	9.46	14.95
CW 11+15	7.42	7.34	7.47	7.35	7.46	7.35	7.47	7.4	7.43	7.38	7.48	7.36	7.42	7.35	7.41	7.35	13.88
CW 14+10	7.50	0	7.51	0	7.46	0	7.55	0	7.54	0	7.55	0	7.53	0	7.52	0	14.09
CW 16+60	8.40	0	8.4	0	8.39	0	8.4	8.39	8.39	8.38	8.4	0	8.41	8.4	8.4	8.39	14.87
CW 19+50	8.60	0	8.61	0	8.58	0	8.62	0	8.64	0	8.65	0	8.62	0	8.6	0	12.07
CW 22+00	10.98	0	11	0	11	0	10.98	0	11	0	11.1	0	10.98	10.97	10.7	10.6	14.1
CW 23+10	11.52	0	11.54	0	11.53	0	11.55	0	11.55	0	11.54	0	11.54	0	11.53	0	15.5
CW 23+90	9.23	0	9.28	0	9.28	0	9.28	0	9.28	0	9.28	0	9.27	0	9.27	0	12.66
CW 25+95	8.97	0	9.01	0	9.01	0	9.01	0	9.01	0	9.01	0	9	0	9	0	14.07

DTW = Depth to Water

DTP = Depth to Product

PHASE II Collected Data - June 2005

	June 2, 2005	June 7, 2005	June 9, 2005	June 14, 2005	June 16, 2005	June 21, 2005	June 23, 2005	June 28, 2005	Total
	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	Well Depth
MMW #11	11.52	0	11.48	0	11.57	0	11.39	0	22.94
MMW #12	11.52	0	11.48	0	11.57	0	10.52	0	14.98
MMW #20	21.15	20.91	21.18	20.91	21.15	20.88	21.17	20.9	27.13
MMW #21	21.98	21.97	21.98	21.97	21.97	21.98	21.97	21.98	30.38
MMW #39	27.92	0	27.99	0	27.65	0	27.28	0	38.34
MMW #45	11.53	11.11	11.55	11.11	11.61	11.24	11.8	11.17	16.92
MMW #46	10.27	0	10.27	0	10.25	0	10.28	0	10.39
MMW #47	12.98	11.96	12.94	11.89	12.88	11.8	13.05	12	14.28

RW #1, RW #9, RW #22, RW #23, RW #28 are active recovery wells and were not measured.

MMW #24 was designed for air sparging activities and does not accommodate monitoring

DTW = Depth to Water

DTP = Depth to Product



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

Certified Mail: 7004 2510 0005 1641 4415

July 11, 2005

**RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001**

Dear Mr. Price,

Please find attached analytical results for the June 7, 2005 sampling event for wells MW #48 and MW #49 on the river terrace at the Giant Refining facility. Note that the results for well MW #49, located down gradient of the barrier wall, had a detection of benzene at a concentration of 2.7 ug/L. That result is well below the WQCC limit of 10 ug/l. A BTEX sample was taken out of the San Juan River adjacent to MW #49. The results of that sample were non detect. We will continue to monitor both wells on a monthly basis and evaluate the concentration trends.

Tank #33 and Fresh Water Pond samples were pulled on June 7, 2005. Analytical results are included with this packet. Tank #33 benzene levels were below WQCC standards at a concentration of 1.2 ug/L. Fresh Water Pond results were all non detect.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Hurtado".

Cindy Hurtado
Environmental Coordinator
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

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87413

COVER LETTER

July 05, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Terrace - 6/05

Order No.: 0506108

Dear Cindy Hurtado:


Hall Environmental Analysis Laboratory received 4 samples on 6/10/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: San Juan Refining
 Lab Order: 0506108
 Project: River Terrace - 6/05
 Lab ID: 0506108-01

Client Sample ID: MW #49
 Collection Date: 6/9/2005 10:35:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.1	1.0		mg/L	1	6/16/2005 1:56:32 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/16/2005 1:56:32 PM
Surr: DNOP	108	58-140		%REC	1	6/16/2005 1:56:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.29	0.050		mg/L	1	6/15/2005 6:04:55 PM
Surr: BFB	112	78.3-120		%REC	1	6/15/2005 6:04:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	6/15/2005 6:04:55 PM
Benzene	2.7	0.50		µg/L	1	6/15/2005 6:04:55 PM
Toluene	ND	0.50		µg/L	1	6/15/2005 6:04:55 PM
Ethylbenzene	ND	0.50		µg/L	1	6/15/2005 6:04:55 PM
Xylenes, Total	0.64	0.50		µg/L	1	6/15/2005 6:04:55 PM
Surr: 4-Bromofluorobenzene	108	83.3-121		%REC	1	6/15/2005 6:04:55 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	ND	2.5		µg/L	1	6/23/2005 3:31:47 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	6/23/2005 3:31:47 PM
2-Methylnaphthalene	ND	2.5		µg/L	1	6/23/2005 3:31:47 PM
Acenaphthylene	ND	2.5		µg/L	1	6/23/2005 3:31:47 PM
Acenaphthene	ND	2.5		µg/L	1	6/23/2005 3:31:47 PM
Fluorene	ND	0.80		µg/L	1	6/23/2005 3:31:47 PM
Phenanthrene	ND	0.60		µg/L	1	6/23/2005 3:31:47 PM
Anthracene	ND	0.60		µg/L	1	6/23/2005 3:31:47 PM
Fluoranthene	ND	0.30		µg/L	1	6/23/2005 3:31:47 PM
Pyrene	ND	0.30		µg/L	1	6/23/2005 3:31:47 PM
Benz(a)anthracene	ND	0.020		µg/L	1	6/23/2005 3:31:47 PM
Chrysene	ND	0.20		µg/L	1	6/23/2005 3:31:47 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	6/23/2005 3:31:47 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	6/23/2005 3:31:47 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	6/23/2005 3:31:47 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	6/23/2005 3:31:47 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	6/23/2005 3:31:47 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/23/2005 3:31:47 PM
Surr: Benzo(e)pyrene	71.9	54-102		%REC	1	6/23/2005 3:31:47 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: San Juan Refining
 Lab Order: 0506108
 Project: River Terrace - 6/05
 Lab ID: 0506108-02

Client Sample ID: River Near MW 49
 Collection Date: 6/9/2005 10:45:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	6/15/2005 6:36:20 PM
Benzene	ND	0.50		µg/L	1	6/15/2005 6:36:20 PM
Toluene	ND	0.50		µg/L	1	6/15/2005 6:36:20 PM
Ethylbenzene	ND	0.50		µg/L	1	6/15/2005 6:36:20 PM
Xylenes, Total	ND	0.50		µg/L	1	6/15/2005 6:36:20 PM
Surr: 4-Bromofluorobenzene	102	83.3-121		%REC	1	6/15/2005 6:36:20 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: San Juan Refining
 Lab Order: 0506108
 Project: River Terrace - 6/05
 Lab ID: 0506108-03

Client Sample ID: MW #48
 Collection Date: 6/9/2005 11:20:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.3	1.0		mg/L	1	6/16/2005 2:29:19 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/16/2005 2:29:19 PM
Surr: DNOP	134	58-140		%REC	1	6/16/2005 2:29:19 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	20	2.0		mg/L	40	6/15/2005 7:07:36 PM
Surr: BFB	107	78.3-120		%REC	40	6/15/2005 7:07:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	40	6/15/2005 7:07:36 PM
Benzene	540	20		µg/L	40	6/15/2005 7:07:36 PM
Toluene	20	20		µg/L	40	6/15/2005 7:07:36 PM
Ethylbenzene	1400	20		µg/L	40	6/15/2005 7:07:36 PM
Xylenes, Total	7200	20		µg/L	40	6/15/2005 7:07:36 PM
Surr: 4-Bromofluorobenzene	108	83.3-121		%REC	40	6/15/2005 7:07:36 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	160	2.0		µg/L	1	6/23/2005 4:19:47 PM
1-Methylnaphthalene	46	2.5		µg/L	1	6/23/2005 4:19:47 PM
2-Methylnaphthalene	49	2.5		µg/L	1	6/23/2005 4:19:47 PM
Acenaphthylene	ND	2.5		µg/L	1	6/23/2005 4:19:47 PM
Acenaphthene	ND	2.5		µg/L	1	6/23/2005 4:19:47 PM
Fluorene	ND	0.80		µg/L	1	6/23/2005 4:19:47 PM
Phenanthrene	1.3	0.60		µg/L	1	6/23/2005 4:19:47 PM
Anthracene	ND	0.60		µg/L	1	6/23/2005 4:19:47 PM
Fluoranthene	ND	0.30		µg/L	1	6/23/2005 4:19:47 PM
Pyrene	ND	0.30		µg/L	1	6/23/2005 4:19:47 PM
Benz(a)anthracene	ND	0.020		µg/L	1	6/23/2005 4:19:47 PM
Chrysene	ND	0.20		µg/L	1	6/23/2005 4:19:47 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	6/23/2005 4:19:47 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	6/23/2005 4:19:47 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	6/23/2005 4:19:47 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	6/23/2005 4:19:47 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	6/23/2005 4:19:47 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/23/2005 4:19:47 PM
Surr: Benzo(e)pyrene	75.2	54-102		%REC	1	6/23/2005 4:19:47 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: San Juan Refining
 Lab Order: 0506108
 Project: River Terrace - 6/05
 Lab ID: 0506108-04

Client Sample ID: Trip Blank
 Collection Date:

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/15/2005 7:38:45 PM
Surr: BFB	98.6	78.3-120		%REC	1	6/15/2005 7:38:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	6/15/2005 7:38:45 PM
Benzene	ND	0.50		µg/L	1	6/15/2005 7:38:45 PM
Toluene	ND	0.50		µg/L	1	6/15/2005 7:38:45 PM
Ethylbenzene	ND	0.50		µg/L	1	6/15/2005 7:38:45 PM
Xylenes, Total	ND	0.50		µg/L	1	6/15/2005 7:38:45 PM
Surr: 4-Bromofluorobenzene	98.1	83.3-121		%REC	1	6/15/2005 7:38:45 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

CLIENT: San Juan Refining
 Work Order: 0506108
 Project: River Terrace - 6/05

QC SUMMARY REPORT

Method Blank

Sample ID	MB-8160	Batch ID:	8160	Test Code:	SW8015	Units:	mg/L	Analysis Date	6/16/2005 10:40:32 AM	Prep Date	6/16/2005
Client ID:		Run ID:	FID(17A)_2_050613A <th>SeqNo:</th> <td>372186</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	372186						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MIRO)	ND	5									
Surr: DNOP	1.19	0	1	0	119	58	140	0			

Sample ID	Reagent Blank 5m	Batch ID:	R15696	Test Code:	SW8015	Units:	mg/L	Analysis Date	6/15/2005 10:13:36 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050615A <th>SeqNo:</th> <td>371885</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	371885						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	20.17	0	20	0	101	78.3	120	0			

Sample ID	Reagent Blank 5m	Batch ID:	R15696	Test Code:	SW8021	Units:	µg/L	Analysis Date	6/15/2005 10:13:36 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050615A <th>SeqNo:</th> <td>371884</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	371884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	19.32	0	20	0	96.6	83.3	121	0			

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0506108
Project: River Terrace - 6/05

Sample ID MB-8151 Batch ID: 8151 Test Code: SW8310 Units: µg/L Analysis Date 6/23/2005 11:31:49 AM Prep Date 6/14/2005
Client ID: HUGO_050623B SeqNo: 374867

Analyte	Result	PQL	SPK value	SPIK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.8									
Phenanthrene	ND	0.6									
Anthracene	ND	0.6									
Fluoranthene	ND	0.3									
Pyrene	ND	0.3									
Benz(a)anthracene	ND	0.02									
Chrysene	ND	0.2									
Benzo(b)fluoranthene	ND	0.05									
Benzo(k)fluoranthene	ND	0.02									
Benzo(a)pyrene	ND	0.02									
Dibenz(a,h)anthracene	ND	0.04									
Benzo(g,h,i)perylene	ND	0.03									
Indeno(1,2,3-cd)pyrene	ND	0.08									
Surr: Benzo(e)pyrene	7.36	0	10	0	73.6	54	102	0			

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

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

QC SUMMARY REPORT

Sample Matrix Spike

CLIENT: San Juan Refining
 Work Order: 0506108
 Project: River Terrace - 6/05

Sample ID	0506108-01a ms	Batch ID: R15696	Test Code: SW8015	Units: mg/L	Analysis Date	6/15/2005 8:09:56 PM	Prep Date				
Client ID:	MW #49	Run ID:	PIDFID_050615A	SeqNo:	371922						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.7714	0.05	0.5	0.2854	97.2	82.6	114	0			
Surr: BFB	26.49	0	25	0	106	78.3	120	0			

Sample ID	0506108-01a msd	Batch ID: R15696	Test Code: SW8015	Units: mg/L	Analysis Date	6/15/2005 8:41:12 PM	Prep Date				
Client ID:	MW #49	Run ID:	PIDFID_050615A	SeqNo:	371923						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.699	0.05	0.5	0.2854	80.7	80	114	0.7714	11.3	15	
Surr: BFB	26.2	0	25	0	105	78.3	120	26.49	1.08	0	

Sample ID	0506108-02a ms	Batch ID: R15696	Test Code: SW8021	Units: µg/L	Analysis Date	6/15/2005 9:43:09 PM	Prep Date				
Client ID:	River Near MW 49	Run ID:	PIDFID_050615A	SeqNo:	371915						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	42.63	2.5	40	0	107	64.5	133	0			
Benzene	19.78	0.5	20	0	98.9	86.7	114	0			
Toluene	20	0.5	20	0	100	89.3	112	0			
Ethylbenzene	19.9	0.5	20	0	99.5	88.6	113	0			
Xylenes, Total	60.02	0.5	60	0	100	89.4	112	0			
Surr: 4-Bromofluorobenzene	23.44	0	24	0	97.7	63.3	121	0			

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

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0506108
Project: River Terrace - 6/05

Sample ID 0506108-02a msd Batch ID: R15696 Test Code: SW8021 Units: µg/L Analysis Date 6/15/2005 10:14:07 PM Prep Date
Client ID: River Near MW 49 Run ID: PIDFID_050615A SeqNo: 371917

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	43.48	2.5	40	0	109	64.5	133	42.63	1.97	28	
Benzene	19.74	0.5	20	0	98.7	88.7	114	19.78	0.196	27	
Toluene	19.64	0.5	20	0	98.2	89.3	112	20	1.82	19	
Ethylbenzene	19.63	0.5	20	0	98.1	88.6	113	19.9	0.376	10	
Xylenes, Total	59.81	0.5	60	0	99.7	89.4	112	60.02	0.342	13	
Surr: 4-Bromofluorobenzene	23.83	0	24	0	99.3	83.3	121	23.44	1.63	0	

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

Hall Environmental Analysis Laboratory

Date: 05-Jul-05

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0506108
Project: River Terrace - 6/05

Sample ID LCS-8160 Batch ID: 8160 Test Code: SW8015 Units: mg/L Analysis Date 6/16/2005 12:03:17 PM Prep Date 6/16/2005
Client ID: FID(17A)_2_050613A SeqNo: 372224
Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO) 1 5 0 136 81.2 149 0

Sample ID LCSD-8160 Batch ID: 8160 Test Code: SW8015 Units: mg/L Analysis Date 6/16/2005 11:44:30 AM Prep Date 6/16/2005
Client ID: FID(17A)_2_050613A SeqNo: 372236
Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO) 1 5 0 132 81.2 149 6.801 3.14 23

Sample ID GRO ccv 2.5ug Batch ID: R15696 Test Code: SW8015 Units: mg/L Analysis Date 6/15/2005 4:30:43 PM Prep Date
Client ID: PIDFID_050615A SeqNo: 371908
Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 0.05 0.5 0 94.2 82.6 114 0

Sample ID BTEX ccv 100ng Batch ID: R15696 Test Code: SW8021 Units: µg/L Analysis Date 6/15/2005 5:02:10 PM Prep Date
Client ID: PIDFID_050615A SeqNo: 371900
Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methyl tert-butyl ether (MTBE) 2.5 40 0 93.9 64.5 133 0
Benzene 0.5 20 0 97.4 88.7 114 0
Toluene 0.5 20 0 97.7 89.3 112 0
Ethylbenzene 0.5 20 0 97.3 88.6 113 0
Xylenes, Total 0.5 60 0 98.8 89.4 112 0

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

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0506108
Project: River Terrace - 6/05

Sample ID LCS-8151 Batch ID: 8151 Test Code: SW8310 Units: µg/L Analysis Date 6/23/2005 12:19:49 PM Prep Date 6/14/2005
Client ID: HUGO_050623B Run ID: SeqNo: 374875

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	20.55	2.5	40	0	51.4	34.8	97.4	0			
1-Methylnaphthalene	20.42	2.5	40.1	0	50.9	34.7	100	0			
2-Methylnaphthalene	19.32	2.5	40	0	48.3	35	98.1	0			
Acenaphthylene	22.61	2.5	40.1	0	56.4	48.3	95.1	0			
Acenaphthene	22.91	2.5	40	0	57.3	45	95	0			
Fluorene	2.38	0.8	4.01	0	59.4	46.8	93.4	0			
Phenanthrene	1.25	0.6	2.01	0	62.2	48.7	104	0			
Anthracene	1.42	0.6	2.01	0	70.6	47.5	102	0			
Fluoranthene	2.81	0.3	4.01	0	70.1	46.3	108	0			
Pyrene	2.45	0.3	4.01	0	61.1	43.8	109	0			
Benz(a)anthracene	0.27	0.02	0.401	0	67.3	40.3	115	0			
Chrysene	1.24	0.2	2.01	0	61.7	42.6	107	0			
Benzo(b)fluoranthene	0.3	0.05	0.501	0	59.9	48.6	107	0			
Benzo(k)fluoranthene	0.17	0.02	0.25	0	68.0	23.3	136	0			
Benzo(a)pyrene	0.17	0.02	0.251	0	67.7	33.4	117	0			
Dibenz(a,h)anthracene	0.29	0.04	0.501	0	57.9	27.3	139	0			
Benzo(g,h,i)perylene	0.372	0.03	0.5	0	74.4	38.2	117	0			
Indeno(1,2,3-cd)pyrene	0.666	0.08	1.002	0	66.5	39.9	125	0			

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

6/10/2005

Work Order Number 0506108

Received by AT

Checklist completed by

[Handwritten Signature]

6/10/05

Matrix

Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? **5°** *4° C ± 2 Acceptable*
If given sufficient time to cool.

COMMENTS:

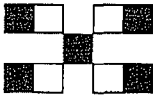
Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

HALL ENVIRONMENTAL
 ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com



Accreditation Applied:
 NELAC USAACE

Other: _____
 Project Name: River Terrace - Ce/ps

Project #: _____
 Project Manager: _____

Sample #: _____
 Sample Temperature: _____

Phone #: 505-632-4161
 Fax #: 505-632-3911

Date: _____
 Time: _____
 Matrix: _____
 Sample I.D. No.: _____
 Number/Volume: _____
 Preservative: _____
 HgCl₂ HNO₃

Date: _____
 Time: _____
 Matrix: _____
 Sample I.D. No.: _____
 Number/Volume: _____
 Preservative: _____
 HgCl₂ HNO₃

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 HgCl₂ HNO₃

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 HgCl₂ HNO₃

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 HgCl₂ HNO₃

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 Preservative: _____
 HgCl₂ HNO₃

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 Preservative: _____
 HgCl₂ HNO₃

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 Preservative: _____
 HgCl₂ HNO₃

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 Number/Volume: _____
 Preservative: _____
 HgCl₂ HNO₃

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 HgCl₂ HNO₃

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 Preservative: _____
 HgCl₂ HNO₃

Date: _____
 Time: _____
 Matrix: _____
 Sample I.D. No.: _____
 Number/Volume: _____
 Preservative: _____
 HgCl₂ HNO₃

Date: _____
 Time: _____
 Matrix: _____
 Sample I.D. No.: _____
 Number/Volume: _____
 Preservative: _____
 HgCl₂ HNO₃

ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline Only)	BTEX + MTBE + TPH (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PMA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles or Headspace (Y or N)
X	X				X						
X											

Remarks:

Received By: (Signature) *Janice Shuman*

Received By: (Signature) _____

Date: 6/09/05 Time: 2PM

Date: _____ Time: _____

Relinquished By: (Signature) _____

Relinquished By: (Signature) _____

1535

COVER LETTER

June 10, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: TC #33 Effluent

Order No.: 0506078

Dear Cindy Hurtado:

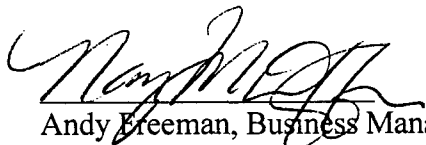
Hall Environmental Analysis Laboratory received 2 samples on 6/8/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 10-Jun-05

CLIENT: San Juan Refining
Project: TC #33 Effluent

Lab Order: 0506078

Lab ID: 0506078-01

Collection Date: 6/7/2005 2:10:00 PM

Client Sample ID: T/c#33

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	1.2	0.50		µg/L	1	6/10/2005 1:12:44 AM
Toluene	ND	0.50		µg/L	1	6/10/2005 1:12:44 AM
Ethylbenzene	0.63	0.50		µg/L	1	6/10/2005 1:12:44 AM
Xylenes, Total	1.3	0.50		µg/L	1	6/10/2005 1:12:44 AM
Surr: 4-Bromofluorobenzene	109	83.3-121		%REC	1	6/10/2005 1:12:44 AM

Lab ID: 0506078-02

Collection Date: 6/7/2005 2:16:00 PM

Client Sample ID: Fresh Water Ponds

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	0.50		µg/L	1	6/10/2005 1:43:07 AM
Toluene	ND	0.50		µg/L	1	6/10/2005 1:43:07 AM
Ethylbenzene	ND	0.50		µg/L	1	6/10/2005 1:43:07 AM
Xylenes, Total	ND	0.50		µg/L	1	6/10/2005 1:43:07 AM
Surr: 4-Bromofluorobenzene	102	83.3-121		%REC	1	6/10/2005 1:43:07 AM

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 10-Jun-05

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0506078
Project: TC #33 Effluent

Sample ID: Reagent Blank 5m Batch ID: R15641 Test Code: SW8021 Units: µg/L Analysis Date: 6/9/2005 9:16:17 AM Prep Date
Client ID: Run ID: PIDFID_050609A SeqNo: 369704

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr. 4-Bromofluorobenzene	19.39	0	20	0	96.9	83.3	121	0			

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

Hall Environmental Analysis Laboratory

Date: 10-Jun-05

CLIENT: San Juan Refining
Work Order: 0506078
Project: TC #33 Effluent

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	0506078-02a ms	Batch ID:	R15641	Test Code:	SW8021	Units:	µg/L	Analysis Date	6/10/2005 2:13:27 AM	Prep Date	
Client ID:	Fresh Water Pond	Run ID:	PIDFID_050609A	SeqNo:	369824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.68	0.5	20	0	103	88.7	114	0			
Toluene	21.37	0.5	20	0	107	89.3	112	0			
Ethylbenzene	21.09	0.5	20	0	105	88.6	113	0			
Xylenes, Total	63.74	0.5	60	0.4698	105	89.4	112	0			
Surr: 4-Bromofluorobenzene	24.89	0	24	0	104	83.3	121	0			

Sample ID	0506078-02a msd	Batch ID:	R15641	Test Code:	SW8021	Units:	µg/L	Analysis Date	6/10/2005 2:43:48 AM	Prep Date	
Client ID:	Fresh Water Pond	Run ID:	PIDFID_050609A	SeqNo:	369825						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.3	0.5	20	0	102	88.7	114	20.68	1.86	27	
Toluene	20.97	0.5	20	0	105	89.3	112	21.37	1.84	19	
Ethylbenzene	20.81	0.5	20	0	104	88.6	113	21.09	1.32	10	
Xylenes, Total	62.82	0.5	60	0.4698	104	89.4	112	63.74	1.46	13	
Surr: 4-Bromofluorobenzene	24.68	0	24	0	103	83.3	121	24.89	0.851	0	

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

Date: 10-Jun-05

Hall Environmental Analysis Laboratory

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0506078
Project: TC #33 Effluent

Sample ID BTEX Ics 100ng Batch ID: R15641 Test Code: SW8021 Units: µg/L Analysis Date 6/9/2005 12:51:23 PM Prep Date

Client ID: Run ID: PIDFID_050609A SeqNo: 369826

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.81	0.5	20	0	104	88.7	114	0			
Toluene	20.97	0.5	20	0	105	89.3	112	0			
Ethylbenzene	20.6	0.5	20	0	103	88.6	113	0			
Xylenes, Total	62.78	0.5	60	0	105	89.4	112	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
I

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

Work Order Number 0506078

Received by AMG

Checklist completed by

Abonzals 6/8/05
Signature Date

Matrix

Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? **13°** *4° C ± 2 Acceptable*
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____



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

Certified Mail: 7004 2510 0005 1641 4415

July 11, 2005

**RE: Giant Refining Company, Bloomfield Refinery
EPA ID# NMD089416416**

Dear Mr. Price,

Please find attached results of analytical data and boring logs for TP-9 through TP-13 requested by NMED. These piezometers are located at the river terrace.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Hurtado".

Cindy Hurtado
Environmental Coordinator
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

PHONE
505-632-8013
FAX
505-632-3911

50 ROAD 4990
P.O. BOX 159
BLOOMFIELD
NEW MEXICO
87413

COVER LETTER

April 19, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Terrace Investigation TP9-TP13

Order No.: 0504087

Dear Cindy Hurtado:

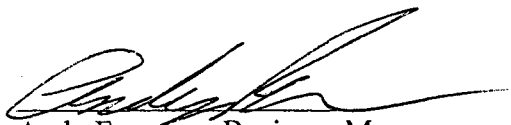
Hall Environmental Analysis Laboratory received 5 samples on 4/8/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,


Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504087
 Project: River Terrace Investigation TP9-TP13
 Lab ID: 0504087-01

Client Sample ID: TP-9
 Collection Date: 4/7/2005 2:00:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/13/2005 8:22:05 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/13/2005 8:22:05 AM
Surr: DNOP	113	58-140		%REC	1	4/13/2005 8:22:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.67	0.050		mg/L	1	4/8/2005 11:26:46 PM
Surr: BFB	103	78.3-120		%REC	1	4/8/2005 11:26:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/8/2005 11:26:46 PM
Benzene	3.3	0.50		µg/L	1	4/8/2005 11:26:46 PM
Toluene	5.0	0.50		µg/L	1	4/8/2005 11:26:46 PM
Ethylbenzene	7.0	0.50		µg/L	1	4/8/2005 11:26:46 PM
Xylenes, Total	22	0.50		µg/L	1	4/8/2005 11:26:46 PM
Surr: 4-Bromofluorobenzene	116	83.3-121		%REC	1	4/8/2005 11:26:46 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining

Client Sample ID: TP-10

Lab Order: 0504087

Collection Date: 4/7/2005 2:20:00 PM

Project: River Terrace Investigation TP9-TP13

Lab ID: 0504087-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/13/2005 9:22:37 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/13/2005 9:22:37 AM
Surr: DNOP	90.4	58-140		%REC	1	4/13/2005 9:22:37 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/8/2005 11:56:47 PM
Surr: BFB	101	78.3-120		%REC	1	4/8/2005 11:56:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/11/2005 1:01:27 PM
Benzene	ND	0.50		µg/L	1	4/11/2005 1:01:27 PM
Toluene	ND	0.50		µg/L	1	4/11/2005 1:01:27 PM
Ethylbenzene	ND	0.50		µg/L	1	4/11/2005 1:01:27 PM
Xylenes, Total	0.56	0.50		µg/L	1	4/11/2005 1:01:27 PM
Surr: 4-Bromofluorobenzene	98.6	83.3-121		%REC	1	4/11/2005 1:01:27 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining

Client Sample ID: TP-11

Lab Order: 0504087

Collection Date: 4/7/2005 1:00:00 PM

Project: River Terrace Investigation TP9-TP13

Lab ID: 0504087-03

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/13/2005 9:52:33 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/13/2005 9:52:33 AM
Surr: DNOP	124	58-140		%REC	1	4/13/2005 9:52:33 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.082	0.050		mg/L	1	4/9/2005 12:26:49 AM
Surr: BFB	101	78.3-120		%REC	1	4/9/2005 12:26:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/9/2005 12:26:49 AM
Benzene	1.5	0.50		µg/L	1	4/9/2005 12:26:49 AM
Toluene	1.6	0.50		µg/L	1	4/9/2005 12:26:49 AM
Ethylbenzene	ND	0.50		µg/L	1	4/9/2005 12:26:49 AM
Xylenes, Total	2.7	0.50		µg/L	1	4/9/2005 12:26:49 AM
Surr: 4-Bromofluorobenzene	103	83.3-121		%REC	1	4/9/2005 12:26:49 AM

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining

Client Sample ID: TP-12

Lab Order: 0504087

Collection Date: 4/7/2005 1:20:00 PM

Project: River Terrace Investigation TP9-TP13

Lab ID: 0504087-04

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/13/2005 10:22:31 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/13/2005 10:22:31 AM
Surr: DNOP	112	58-140		%REC	1	4/13/2005 10:22:31 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/9/2005 12:56:46 AM
Surr: BFB	99.2	78.3-120		%REC	1	4/9/2005 12:56:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/9/2005 12:56:46 AM
Benzene	0.75	0.50		µg/L	1	4/9/2005 12:56:46 AM
Toluene	0.80	0.50		µg/L	1	4/9/2005 12:56:46 AM
Ethylbenzene	ND	0.50		µg/L	1	4/9/2005 12:56:46 AM
Xylenes, Total	1.0	0.50		µg/L	1	4/9/2005 12:56:46 AM
Surr: 4-Bromofluorobenzene	103	83.3-121		%REC	1	4/9/2005 12:56:46 AM

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining **Client Sample ID:** TP-13
Lab Order: 0504087 **Collection Date:** 4/7/2005 2:45:00 PM
Project: River Terrace Investigation TP9-TP13
Lab ID: 0504087-05 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/13/2005 10:52:24 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/13/2005 10:52:24 AM
Surr: DNOP	128	58-140		%REC	1	4/13/2005 10:52:24 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/9/2005 1:26:44 AM
Surr: BFB	102	78.3-120		%REC	1	4/9/2005 1:26:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/9/2005 1:26:44 AM
Benzene	2.3	0.50		µg/L	1	4/9/2005 1:26:44 AM
Toluene	2.2	0.50		µg/L	1	4/9/2005 1:26:44 AM
Ethylbenzene	0.55	0.50		µg/L	1	4/9/2005 1:26:44 AM
Xylenes, Total	3.6	0.50		µg/L	1	4/9/2005 1:26:44 AM
Surr: 4-Bromofluorobenzene	101	83.3-121		%REC	1	4/9/2005 1:26:44 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining

Work Order: 0504087

Project: River Terrace Investigation TP9-TP13

QC SUMMARY REPORT

Method Blank

Sample ID	MB-7741	Batch ID:	7741	Test Code:	SW8015	Units:	mg/L	Analysis Date	4/13/2005 5:23:14 AM	Prep Date	4/11/2005
Client ID:		Run ID:	FID(17A)_2_050412A <th>SeqNo:</th> <td>351425</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	351425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.079	0	1	0	108	58	140	0			

Sample ID	Reagent Blank 5m	Batch ID:	R15047	Test Code:	SW8015	Units:	mg/L	Analysis Date	4/8/2005 8:25:08 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050408A <th>SeqNo:</th> <td>350502</td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	350502						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	19.39	0	20	0	96.9	78.3	120	0			

Sample ID	Reagent Blank 5m	Batch ID:	R15061	Test Code:	SW8015	Units:	mg/L	Analysis Date	4/11/2005 9:28:42 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050411A <th>SeqNo:</th> <td>350886</td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	350886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	18.94	0	20	0	94.7	78.3	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0504087
 Project: River Terrace Investigation TP9-TP13

Sample ID	Reagent Blank 5m	Batch ID: R15047	Test Code: SW8021	Units: µg/L	Analysis Date 4/8/2005 8:25:08 AM	Prep Date				
Client ID:	Run ID: PIDFID_050408A	SeqNo: 350499								
Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	2.5									
Benzene	0.5									
Toluene	0.5									
Ethylbenzene	0.5									
Xylenes, Total	0.5									
Surr: 4-Bromofluorobenzene	19.22	0	20	96.1	83.3	121	0			

Sample ID	Reagent Blank 5m	Batch ID: R15061	Test Code: SW8021	Units: µg/L	Analysis Date 4/11/2005 9:28:42 AM	Prep Date				
Client ID:	Run ID: PIDFID_050411A	SeqNo: 350885								
Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	2.5									
Benzene	0.5									
Toluene	0.5									
Ethylbenzene	0.5									
Xylenes, Total	0.5									
Surr: 4-Bromofluorobenzene	19.9	0	20	99.5	83.3	121	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

QC SUMMARY REPORT

CLIENT: San Juan Refining

Work Order: 0504087

Project: River Terrace Investigation TP9-TP13

Sample Matrix Spike

Sample ID	0504087-02a ms	Batch ID: R15047	Test Code: SW8015	Units: mg/L	Run ID: PIDFID_050408A	SeqNo: 350590	Analysis Date	4/9/2005 2:56:36 AM	Prep Date		
Client ID:	TP-10										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.5284	0.05	0.5	0.0158	103	82.6	114	0			
Surr: BFB	24.25	0	25	0	97.0	78.3	120	0			

Sample ID	0504087-02a msd	Batch ID: R15047	Test Code: SW8015	Units: mg/L	Run ID: PIDFID_050408A	SeqNo: 350593	Analysis Date	4/9/2005 3:26:38 AM	Prep Date		
Client ID:	TP-10										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4692	0.05	0.5	0.0158	90.7	82.6	114	0.5284	11.9	15	
Surr: BFB	23.55	0	25	0	94.2	78.3	120	24.25	2.95	0	

Sample ID	0504087-01a ms	Batch ID: R15047	Test Code: SW8021	Units: µg/L	Run ID: PIDFID_050408A	SeqNo: 350560	Analysis Date	4/9/2005 1:56:44 AM	Prep Date		
Client ID:	TP-9										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	28.94	2.5	40	0	72.3	64.5	133	0			
Benzene	24.18	0.5	20	3.293	104	88.7	114	0			
Toluene	25.66	0.5	20	4.956	104	89.3	112	0			
Ethylbenzene	27.64	0.5	20	7.037	103	88.6	113	0			
Xylenes, Total	85.02	0.5	60	22.34	104	89.4	112	0			
Surr: 4-Bromofluorobenzene	25.41	0	24	0	106	83.3	121	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 /

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

CLIENT: San Juan Refining

Work Order: 0504087

Project: River Terrace Investigation TP9-TP13

Sample ID	0504087-01a.ms	Batch ID	R15047	Test Code	SW8021	Units	µg/L	Analysis Date	4/9/2005 2:26:39 AM	Prep Date	
Client ID	TP-9	Run ID	PIDFID_050408A	SeqNo	350570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	28.3	2.5	40	0	70.7	64.5	133	28.94	2.25	28	
Benzene	23.47	0.5	20	3.293	101	88.7	114	24.18	3.00	27	
Toluene	25.25	0.5	20	4.956	101	89.3	112	25.66	1.61	19	
Ethylbenzene	27.72	0.5	20	7.037	103	88.6	113	27.64	0.284	10	
Xylenes, Total	82.62	0.5	60	22.34	100	89.4	112	85.02	2.86	13	
Surr: 4-Bromofluorobenzene	24.62	0	24	0	103	83.3	121	25.41	3.15	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining

Work Order: 0504087

Project: River Terrace Investigation TP9-TP13

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID LCS-7741 Batch ID: 7741 Test Code: SW8015 Units: mg/L Analysis Date 4/13/2005 5:53:08 AM Prep Date 4/11/2005
 Client ID: Run ID: FID(17A)_2_050412A SeqNo: 351426

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.687	1	5	0	134	81.2	149	0			

Sample ID LCSD-7741 Batch ID: 7741 Test Code: SW8015 Units: mg/L Analysis Date 4/13/2005 5:12:01 PM Prep Date 4/11/2005
 Client ID: Run ID: FID(17A)_2_050412A SeqNo: 351565

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.592	1	5	0	112	81.2	149	6.687	17.8	23	

Sample ID GRO lcs 2.5ug Batch ID: R15047 Test Code: SW8015 Units: mg/L Analysis Date 4/9/2005 3:56:36 AM Prep Date
 Client ID: Run ID: PIDFID_050408A SeqNo: 350595

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4986	0.05	0.5	0	99.7	82.6	114	0			

Sample ID GRO lcs 2.5ug Batch ID: R15061 Test Code: SW8015 Units: mg/L Analysis Date 4/12/2005 1:05:11 AM Prep Date
 Client ID: Run ID: PIDFID_050411A SeqNo: 350892

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4896	0.05	0.5	0	97.9	82.6	114	0			

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining

Work Order: 0504087

Project: River Terrace Investigation TP9-TP13

Sample ID BTEX Ics 100ng Batch ID: R15047 Test Code: SW8021 Units: µg/L Analysis Date 4/8/2005 7:55:35 PM Prep Date

Client ID: PIDFID_050408A Run ID: PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	36.12	2.5	40	0	90.3	64.5	133	0			
Benzene	19.64	0.5	20	0	98.2	88.7	114	0			
Toluene	19.71	0.5	20	0	98.6	89.3	112	0			
Ethylbenzene	20.82	0.5	20	0	104	88.6	113	0			
Xylenes, Total	58.33	0.5	60	0	97.2	89.4	112	0			

Sample ID BTEX Ics 100ng Batch ID: R15061 Test Code: SW8021 Units: µg/L Analysis Date 4/11/2005 11:04:48 PM Prep Date

Client ID: PIDFID_050411A Run ID: PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	38.6	2.5	40	0	96.5	64.5	133	0			
Benzene	21.07	0.5	20	0	105	88.7	114	0			
Toluene	20.71	0.5	20	0	104	89.3	112	0			
Ethylbenzene	22.01	0.5	20	0	110	88.6	113	0			
Xylenes, Total	62.29	0.5	60	0	104	89.4	112	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

4/8/2005

Work Order Number 0504087

Received by GLS

Checklist completed by

[Signature]
Signature

4-8-05
Date

Matrix

Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? **3°** *4° C ± 2 Acceptable*
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Sheet: 1 OF 5
 Bore Point: River Terrace
 Water Elevation: 7.0'
 Boring No.: TP-9

Precision Engineering, Inc.
 P.O. Box 422
 Las Cruces, NM 88004
 505-523-7674

File #: 05-038
 Site: Bloomfield
 Giant Refining
 Elevation: EXISTING
 Date: 4/5/2005

Log of Test Borings

LAB #	DEPTH	BLOW COUNT	PLOT	SCALE	MATERIAL CHARACTERISTICS (MOISTURE, CONDITION, COLOR, ETC.)	%M	LL	PI	CLASS.
	0.0-7.5		///**/// ///**/// ///**/// ///**/// ///**/// ///**/// ///**/// ///**/// ///**/// ///**/// ///**/// ///**/// ///**/// ///**/// ///**///	<u>2.5</u> <u>5.0</u>	Clay, Slightly Sandy, Very Fine, Brown, Moist, Gravel, Cobbles				
	7.0		///**/// ///**///	<u>7.5</u>	Water				
	7.5-10.0		***** ***** ***** ***** *****	<u>10.0</u>	Sand, Very Fine, Grey, Water Bearing				
	10.0			<u>15.0</u> <u>20.0</u>	TD Set 2" Well @ 10.0' 5' of Screen, 6' of Riser Top of Sand 3.1' Top of Bentonite 1.5'				

SIZE & TYPE OF BORING: 4 1/4" ID HOLLOW STEMMED AUGER LOGGED BY: KMM

Sheet: 2 OF 5

Bore Point: River Terrace

Water Elevation: 4'2"

Boring No.: TP-10

Precision Engineering, Inc.

P.O. Box 422

Las Cruces, NM 88004

505-523-7674

File #: 05-038

Site: Bloomfield

Giant Refining

Elevation: EXISTING

Date: 4/5/2005

Log of Test Borings

LAB #	DEPTH	BLOW COUNT	PLOT	SCALE	MATERIAL CHARACTERISTICS (MOISTURE, CONDITION, COLOR, ETC.)	%M	LL	PI	CLASS.
	0.0-2.0		*-----* *-----* *-----*		<u>Silt</u> , Sandy, Very Fine, Brown, Gravel, Cobbles Moist				
	2.0-8.5		***_*** ***_*** ***_*** ***_*** ***_***	<u>2.5</u>	<u>Sand</u> , Very Fine to Fine, Silty, Brown, Gravel, Cobbles, Damp				
			_ ***_*** ***_*** ***_*** ***_*** ***_*** ***_*** ***_***	<u>5.0</u> <u>7.5</u>	Water /				
	8.5			<u>10.0</u> <u>15.0</u> <u>20.0</u>	TD Set 2" Well @ 8.5' 5' of Screen, 5' of Riser Top of Sand 2.5' Top of Bentonite 1.5'				

SIZE & TYPE OF BORING: 4 1/4" ID HOLLOW STEMMED AUGER

LOGGED BY: KMM

Sheet: 3 OF 5
 Bore Point: River Terrace
 Water Elevation: 5.3'
 Boring No.: TP-11

Precision Engineering, Inc.
 P.O. Box 422
 Las Cruces, NM 88004
 505-523-7674

File #: 05-038
 Site: Bloomfield
 Giant Refining
 Elevation: EXISTING
 Date: 4/5/2005

Log of Test Borings

LAB #	DEPTH	BLOW COUNT	PLOT	SCALE	MATERIAL CHARACTERISTICS (MOISTURE, CONDITION, COLOR, ETC.)	%M	LL	PI	CLASS.
	0.0-2.0		/////// /////// ///////		Clay, Brown, Moist, Gravel, Cobbles				
	2.0-3.5		***//*** ***//*** ***//***	<u>2.5</u>	Sand, Clayey, Brown, Moist, Gravel, Cobbles				
	3.5-5.0		***_*** ***_*** ***_***	<u>5.0</u>	Sand, Silty, Brown, Damp, Gravel, Cobbles				
	5.0-9.5		*****		Sand, Fine to Coarse, Tan, Damp, Wet				
	5.3'		***** ***** ***** ***** ***** *****	<u>7.5</u>	Water				
	9.5			<u>10.0</u>	TD				
				<u>15.0</u>	Set 2" Well @ 9.5' 5' of Screen, 5' of Riser Top of Sand 3.5' Top of Bentonite 1.4'				
				<u>20.0</u>					
SIZE & TYPE OF BORING: 4 1/4" ID HOLLOW STEMMED AUGER						LOGGED BY: KMM			

Sheet: 4 OF 5
 Bore Point: RiverTerrace
 Water Elevation: 7.5'
 Boring No.: TP-12

Precision Engineering, Inc.
 P.O. Box 422
 Las Cruces, NM 88004
 505-523-7674

File #: 05-038
 Site: Bloomfield
 Giant Refining
 Elevation: EXISTING
 Date: 4/5/2005

Log of Test Borings

LAB #	DEPTH	BLOW COUNT	PLOT	SCALE	MATERIAL CHARACTERISTICS (MOISTURE, CONDITION, COLOR, ETC.)	%M	LL	PI	CLASS.
	0.0-3.0		***_*** ***_*** ***_*** ***_*** ***_***	<u>2.5</u>	<u>Sand</u> , Very Fine to Fine, Slightly Silty, Brown, Gravel, Cobbles, Moist				
	3.0-4.5		////**// ////**// ////**//		<u>Clay</u> , Sandy, Very Fine, Brown, Some Gravel/ Cobbles, Moist				
	4.5-9.0		***//*** ***//*** ***//*** ***//*** ***//*** ***//*** ***//***	<u>5.0</u> <u>7.5</u>	<u>Sand</u> , Very Fine to Fine, Clayey, Brown, Moist, Some Gravel				
	9.0-13.0		***** ***** ***** ***** ***** ***** ***** ***** ***** *****	<u>10.0</u>	Water <u>Sand</u> , Fine to Coarse, Tan, Water Bearing				
	13.0			<u>15.0</u> <u>20.0</u>	TD Set 2" Well @ 12.0' 5' of Screen, 8' of Riser Top of Sand 5'2" Top of Bentonite 4'2"				
SIZE & TYPE OF BORING: 4 1/4" ID HOLLOW STEMMED AUGER						LOGGED BY: KMM			

GIANT

REFINING COMPANY

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

Certified Mail: 7001 1140 0000 4022 0804

May 26, 2005

**RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001**

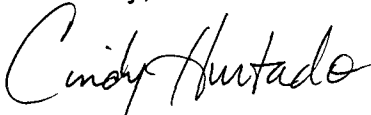
Dear Mr. Price,

Please find attached analytical results for the May 4, 2005 sampling event for wells MW #48 and MW #49 on the river terrace at the Giant Refining facility. Note that the results for well MW #49, located down gradient of the barrier wall, had a detection of benzene at a concentration of 38 ug/L. A BTEX sample was taken out of the San Juan River adjacent to MW #49. The results of that sample were non detect. We will continue to monitor both wells on a monthly basis and evaluate the concentration trends.

Tank #33 and Fresh Water Pond samples were pulled on May 4, 2005. Analytical results are included with this packet. Tank #33 benzene levels were below WQCC standards at a concentration of 1.8 ug/L. Fresh Water Pond results were all non detect.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,



Cindy Hurtado
Environmental Coordinator
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

COVER LETTER

May 12, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: TK #33 Effluent

Order No.: 0505035

Dear Cindy Hurtado:


Hall Environmental Analysis Laboratory received 2 samples on 5/4/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,


Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 12-May-05

CLIENT: San Juan Refining
 Lab Order: 0505035
 Project: TK #33 Effluent
 Lab ID: 0505035-01

Client Sample ID: TK#33
 Collection Date: 5/4/2005 10:35:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	23	2.5		µg/L	1	5/9/2005 11:14:16 AM
Benzene	1.8	0.50		µg/L	1	5/9/2005 11:14:16 AM
Toluene	ND	0.50		µg/L	1	5/9/2005 11:14:16 AM
Ethylbenzene	1.1	0.50		µg/L	1	5/9/2005 11:14:16 AM
Xylenes, Total	1.4	0.50		µg/L	1	5/9/2005 11:14:16 AM
Surr: 4-Bromofluorobenzene	104	83.3-121		%REC	1	5/9/2005 11:14:16 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 12-May-05

CLIENT: San Juan Refining
 Lab Order: 0505035
 Project: TK #33 Effluent
 Lab ID: 0505035-02

Client Sample ID: Fresh Water Ponds
 Collection Date: 5/4/2005 10:50:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	5/9/2005 11:44:55 AM
Benzene	ND	0.50		µg/L	1	5/9/2005 11:44:55 AM
Toluene	ND	0.50		µg/L	1	5/9/2005 11:44:55 AM
Ethylbenzene	ND	0.50		µg/L	1	5/9/2005 11:44:55 AM
Xylenes, Total	ND	0.50		µg/L	1	5/9/2005 11:44:55 AM
Surr: 4-Bromofluorobenzene	99.4	83.3-121		%REC	1	5/9/2005 11:44:55 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 12-May-05

CLIENT: San Juan Refining
Work Order: 0505035
Project: TK #33 Effluent
QC SUMMARY REPORT
 Method Blank

Sample ID: Reagent Blank 5m **Batch ID:** R15328 **Test Code:** SW8021 **Units:** µg/L **Analysis Date:** 5/9/2005 6:52:11 AM **Prep Date:**
Client ID: PIDFID_050509A **Run ID:** PIDFID_050509A **SeqNo:** 359328

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5										
Benzene	ND	0.5										
Toluene	ND	0.5										
Ethylbenzene	ND	0.5										
Xylenes, Total	ND	0.5										
Surr: 4-Bromofluorobenzene	20.48	0	20	0		102	83.3	121	0			

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

Date: 12-May-05

Hall Environmental Analysis Laboratory

QC SUMMARY REPORT

CLIENT: San Juan Refining
Work Order: 0505035
Project: TK #33 Effluent

Laboratory Control Spike - generic

Sample ID	BTEX Ics 100ng	Batch ID: R15328	Test Code: SW8021	Units: µg/L	Analysis Date 5/9/2005 11:28:27 PM	Prep Date				
Client ID:	Run ID: PIDFID_050509A		SeqNo: 359338							
Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	2.5	40	0	109	64.5	133	0			
Benzene	0.5	20	0	105	88.7	114	0			
Toluene	0.5	20	0	104	89.3	112	0			
Ethylbenzene	0.5	20	0	109	88.6	113	0			
Xylenes, Total	0.5	60	0	104	89.4	112	0			

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

5/4/2005

Work Order Number 0505035

Received by GLS

Checklist completed by

B. Schleppe
Signature

5-5-05
Date

Matrix

Carrier name UPS

- | | | | |
|---|---|---|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| Container/Temp Blank temperature? | 5° | 4° C ± 2 Acceptable | If given sufficient time to cool. |

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: SAN JUAN Refining

Address: # 50 Rd 4990

Bloomfield, NM 87413

Phone #: 505-632-4161

Fax #: 505-632-3911

Date: _____ Time: _____ Matrix: _____ Sample I.D. No.:

5/04/05 1035A H2O TK # 33
1 1050A 1 Fresh Water Ponds 2-VDA

QA/QC Package:

Std Level 4

Other:

Project Name:

TK # 33 Effluent

Project #:

Project Manager:

Sampler: Cindy Hurtado

Sample Temperature: 52

Number/Volume

2-VDA
2-VDA

Preservative

HgCl₂ HNO₃

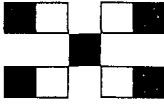
HCL
HCL

HEAL No.

0505035
-1
-2

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com



ANALYSIS REQUEST

Analysis Request	Response
BTEX + MTBE + 4MB's (0021)	X
BTEX + MTBE + TPH (Gasoline Only)	
TPH Method 8015B (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
EDC (Method 802.1)	
8310 (PNA or PAH)	
PCRA 8 Metals	
Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	
8081 Pesticides / PCB's (8082)	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles or Headspace (Y or N)	

Remarks:

Received By: [Signature]
 Received By: (Signature) 5-5-05
Salgado @ 1600

Date: 5/04/05 Time: 2pm Relinquished By: (Signature) Cindy Hurtado
 Date: _____ Time: _____ Relinquished By: (Signature) _____

COVER LETTER

May 20, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Terrace - 5/05

Order No.: 0505034

Dear Cindy Hurtado:


Hall Environmental Analysis Laboratory received 4 samples on 5/5/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,


Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 20-May-05

CLIENT: San Juan Refining
 Lab Order: 0505034
 Project: River Terrace - 5/05
 Lab ID: 0505034-01

Client Sample ID: MW-48
 Collection Date: 5/4/2005 10:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.2	1.0		mg/L	1	5/19/2005 9:22:39 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/19/2005 9:22:39 PM
Surr: DNOP	120	58-140		%REC	1	5/19/2005 9:22:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	14	2.5		mg/L	50	5/9/2005 9:12:52 AM
Surr: BFB	109	78.3-120		%REC	50	5/9/2005 9:12:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	5/9/2005 9:12:52 AM
Benzene	280	25		µg/L	50	5/9/2005 9:12:52 AM
Toluene	ND	25		µg/L	50	5/9/2005 9:12:52 AM
Ethylbenzene	900	25		µg/L	50	5/9/2005 9:12:52 AM
Xylenes, Total	3700	25		µg/L	50	5/9/2005 9:12:52 AM
Surr: 4-Bromofluorobenzene	106	83.3-121		%REC	50	5/9/2005 9:12:52 AM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	160	2.5		µg/L	1	5/19/2005 2:37:36 AM
1-Methylnaphthalene	52	2.5		µg/L	1	5/19/2005 2:37:36 AM
2-Methylnaphthalene	72	2.5		µg/L	1	5/19/2005 2:37:36 AM
Acenaphthylene	ND	2.5		µg/L	1	5/19/2005 2:37:36 AM
Acenaphthene	ND	2.5		µg/L	1	5/19/2005 2:37:36 AM
Fluorene	0.86	0.80		µg/L	1	5/19/2005 2:37:36 AM
Phenanthrene	2.4	0.60		µg/L	1	5/19/2005 2:37:36 AM
Anthracene	ND	0.60		µg/L	1	5/19/2005 2:37:36 AM
Fluoranthene	ND	0.30		µg/L	1	5/19/2005 2:37:36 AM
Pyrene	ND	0.30		µg/L	1	5/19/2005 2:37:36 AM
Benz(a)anthracene	ND	0.020		µg/L	1	5/19/2005 2:37:36 AM
Chrysene	ND	0.20		µg/L	1	5/19/2005 2:37:36 AM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	5/19/2005 2:37:36 AM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	5/19/2005 2:37:36 AM
Benzo(a)pyrene	ND	0.020		µg/L	1	5/19/2005 2:37:36 AM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	5/19/2005 2:37:36 AM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	5/19/2005 2:37:36 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	5/19/2005 2:37:36 AM
Surr: Benzo(e)pyrene	78.0	54-102		%REC	1	5/19/2005 2:37:36 AM

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 20-May-05

CLIENT: San Juan Refining
 Lab Order: 0505034
 Project: River Terrace - 5/05
 Lab ID: 0505034-02

Client Sample ID: MW-49
 Collection Date: 5/4/2005 9:20:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/19/2005 9:53:25 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/19/2005 9:53:25 PM
Surr: DNOP	139	58-140		%REC	1	5/19/2005 9:53:25 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.42	0.050		mg/L	1	5/9/2005 9:43:05 AM
Surr: BFB	109	78.3-120		%REC	1	5/9/2005 9:43:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	5/9/2005 9:43:05 AM
Benzene	38	0.50		µg/L	1	5/9/2005 9:43:05 AM
Toluene	0.55	0.50		µg/L	1	5/9/2005 9:43:05 AM
Ethylbenzene	3.0	0.50		µg/L	1	5/9/2005 9:43:05 AM
Xylenes, Total	3.4	0.50		µg/L	1	5/9/2005 9:43:05 AM
Surr: 4-Bromofluorobenzene	106	83.3-121		%REC	1	5/9/2005 9:43:05 AM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	ND	2.5		µg/L	1	5/19/2005 3:25:36 AM
1-Methylnaphthalene	ND	2.5		µg/L	1	5/19/2005 3:25:36 AM
2-Methylnaphthalene	ND	2.5		µg/L	1	5/19/2005 3:25:36 AM
Acenaphthylene	ND	2.5		µg/L	1	5/19/2005 3:25:36 AM
Acenaphthene	ND	2.5		µg/L	1	5/19/2005 3:25:36 AM
Fluorene	ND	0.80		µg/L	1	5/19/2005 3:25:36 AM
Phenanthrene	ND	0.60		µg/L	1	5/19/2005 3:25:36 AM
Anthracene	ND	0.60		µg/L	1	5/19/2005 3:25:36 AM
Fluoranthene	ND	0.30		µg/L	1	5/19/2005 3:25:36 AM
Pyrene	ND	0.30		µg/L	1	5/19/2005 3:25:36 AM
Benz(a)anthracene	ND	0.020		µg/L	1	5/19/2005 3:25:36 AM
Chrysene	ND	0.20		µg/L	1	5/19/2005 3:25:36 AM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	5/19/2005 3:25:36 AM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	5/19/2005 3:25:36 AM
Benzo(a)pyrene	ND	0.020		µg/L	1	5/19/2005 3:25:36 AM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	5/19/2005 3:25:36 AM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	5/19/2005 3:25:36 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	5/19/2005 3:25:36 AM
Surr: Benzo(e)pyrene	74.7	54-102		%REC	1	5/19/2005 3:25:36 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method.Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 20-May-05

CLIENT: San Juan Refining
 Lab Order: 0505034
 Project: River Terrace - 5/05
 Lab ID: 0505034-03

Client Sample ID: River Near MW-49
 Collection Date: 5/4/2005 9:35:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	5/9/2005 10:13:33 AM
Benzene	ND	0.50		µg/L	1	5/9/2005 10:13:33 AM
Toluene	ND	0.50		µg/L	1	5/9/2005 10:13:33 AM
Ethylbenzene	ND	0.50		µg/L	1	5/9/2005 10:13:33 AM
Xylenes, Total	ND	0.50		µg/L	1	5/9/2005 10:13:33 AM
Surr: 4-Bromofluorobenzene	102	83.3-121		%REC	1	5/9/2005 10:13:33 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 20-May-05

CLIENT: San Juan Refining
Lab Order: 0505034
Project: River Terrace - 5/05
Lab ID: 0505034-04

Client Sample ID: Trip Blank
Collection Date:
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/9/2005 10:43:53 AM
Surr: BFB	102	78.3-120		%REC	1	5/9/2005 10:43:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	5/9/2005 10:43:53 AM
Benzene	ND	0.50		µg/L	1	5/9/2005 10:43:53 AM
Toluene	ND	0.50		µg/L	1	5/9/2005 10:43:53 AM
Ethylbenzene	ND	0.50		µg/L	1	5/9/2005 10:43:53 AM
Xylenes, Total	ND	0.50		µg/L	1	5/9/2005 10:43:53 AM
Surr: 4-Bromofluorobenzene	100	83.3-121		%REC	1	5/9/2005 10:43:53 AM

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 20-May-05

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0505034
 Project: River Terrace - 5/05

Sample ID	MB-7949	Batch ID: 7949	Test Code: SW8015	Units: mg/L	Analysis Date 5/19/2005 8:20:40 PM	Prep Date 5/11/2005					
Client ID:			Run ID: FID(17A)_2_050518A	SeqNo: 363970							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	0.8745	0	1	0	87.5	58	140	0			

Sample ID	Reagent Blank 5m	Batch ID: R15328	Test Code: SW8015	Units: mg/L	Analysis Date 5/9/2005 6:52:11 AM	Prep Date					
Client ID:			Run ID: PIDFID_050509A	SeqNo: 359329							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	22	0	20	0	110	78.3	120	0			

Sample ID	Reagent Blank 5m	Batch ID: R15328	Test Code: SW8021	Units: µg/L	Analysis Date 5/9/2005 6:52:11 AM	Prep Date					
Client ID:			Run ID: PIDFID_050509A	SeqNo: 359328							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	20.48	0	20	0	102	83.3	121	0			

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0505034
Project: River Terrace - 5/05

Sample ID MB-7940 Batch ID: 7940 Test Code: SW8310 Units: µg/L Analysis Date 5/18/2005 11:25:38 PM Prep Date 5/10/2005
Client ID: HUGO_050518A Run ID: HUGO_050518A SeqNo: 363800

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	2.5									
1-Methylanthracene	ND	2.5									
2-Methylanthracene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.8									
Phenanthrene	ND	0.6									
Anthracene	ND	0.6									
Fluoranthene	ND	0.3									
Pyrene	ND	0.3									
Benz(a)anthracene	ND	0.02									
Chrysene	ND	0.2									
Benzo(b)fluoranthene	ND	0.05									
Benzo(k)fluoranthene	ND	0.02									
Benzo(a)pyrene	ND	0.02									
Dibenz(a,h)anthracene	ND	0.04									
Benzo(g,h,i)perylene	ND	0.03									
Indeno(1,2,3-cd)pyrene	ND	0.08									
Surr: Benzo(e)pyrene	7.16	0	10	0	71.6	54	102	0			

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

Hall Environmental Analysis Laboratory

Date: 20-May-05

QC SUMMARY REPORT

Sample Matrix Spike

CLIENT: San Juan Refining
 Work Order: 0505034
 Project: River Terrace - 5/05

Sample ID 0505034-02a ms Batch ID: R15328 Test Code: SW8015 Units: mg/L Analysis Date 5/9/2005 1:16:44 PM Prep Date
 Client ID: MW-49 Run ID: PIDFID_050509A SeqNo: 359342

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.939	0.05	0.5	0.4158	105	82.6	114	0			
Surr: BFB	26.17	0	25	0	105	78.3	120	0			

Sample ID 0505034-02a msd Batch ID: R15328 Test Code: SW8015 Units: mg/L Analysis Date 5/9/2005 1:47:23 PM Prep Date
 Client ID: MW-49 Run ID: PIDFID_050509A SeqNo: 359343

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.9164	0.05	0.5	0.4158	100	82.6	114	0.939	2.44	8.39	
Surr: BFB	25.5	0	25	0	102	78.3	120	26.17	2.59	0	

Sample ID 0505034-03a ms Batch ID: R15328 Test Code: SW6021 Units: µg/L Analysis Date 5/9/2005 12:15:26 PM Prep Date
 Client ID: River Near MW-49 Run ID: PIDFID_050509A SeqNo: 359336

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	41.39	2.5	40	0	103	64.5	133	0			
Benzene	19.52	0.5	20	0	97.6	88.7	114	0			
Toluene	19.56	0.5	20	0	97.8	89.3	112	0			
Ethylbenzene	19.75	0.5	20	0	98.8	88.6	113	0			
Xylenes, Total	59.02	0.5	60	0	98.4	89.4	112	0			
Surr: 4-Bromofluorobenzene	22.85	0	24	0	95.2	83.3	121	0			

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

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0505034
Project: River Terrace - 5/05

Sample ID: 0505034-03a msd Batch ID: R15328 Test Code: SW8021 Units: µg/L Analysis Date: 5/9/2005 12:45:57 PM Prep Date:
Client ID: River Near MW-49 Run ID: PIDFID_050509A SeqNo: 359337

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	40.37	2.5	40	0	101	64.5	133	41.39	2.51	28	
Benzene	19.8	0.5	20	0	99.0	86.7	114	19.52	1.41	27	
Toluene	19.99	0.5	20	0	100	89.3	112	19.56	2.22	19	
Ethylbenzene	20.52	0.5	20	0	103	86.6	113	19.75	3.82	10	
Xylenes, Total	59.39	0.5	60	0	99.0	89.4	112	59.02	0.630	13	
Surr: 4-Bromofluorobenzene	23.07	0	24	0	96.1	83.3	121	22.85	0.974	0	

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

Hall Environmental Analysis Laboratory

Date: 20-May-05

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0505034
 Project: River Terrace - 5/05

Sample ID LCS-7949 Batch ID: 7949 Test Code: SW8015 Units: mg/L Analysis Date 5/19/2005 8:51:41 PM Prep Date 5/11/2005
 Client ID: Run ID: FID(17A)2_050518A SeqNo: 363971

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.28	1	5	0	126	81.2	149	0			

Sample ID GRO lcs 2.5ug Batch ID: R15328 Test Code: SW8015 Units: mg/L Analysis Date 5/9/2005 10:27:44 PM Prep Date
 Client ID: Run ID: PIDFID_050509A SeqNo: 359344

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4752	0.05	0.5	0	95.0	82.6	114	0			

Sample ID BTEX lcs 100ng Batch ID: R15328 Test Code: SW8021 Units: µg/L Analysis Date 5/9/2005 11:28:27 PM Prep Date
 Client ID: Run ID: PIDFID_050509A SeqNo: 359338

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	43.54	2.5	40	0	109	64.5	133	0			
Benzene	21.07	0.5	20	0	105	88.7	114	0			
Toluene	20.74	0.5	20	0	104	89.3	112	0			
Ethylbenzene	21.84	0.5	20	0	109	88.6	113	0			
Xylenes, Total	62.36	0.5	60	0	104	89.4	112	0			

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

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0505034
Project: River Terrace - 5/05

Sample ID LCS-7940 Batch ID: 7940 Test Code: SW8310 Units: µg/L Analysis Date 5/19/2005 12:13:38 AM Prep Date 5/10/2005

Client ID: Run ID: HUGO_050518A SeqNo: 363803

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	16.22	2.5	40	0	40.6	34.8	97.4	0			
1-Methylnaphthalene	18.04	2.5	40.1	0	45.0	34.7	100	0			
2-Methylnaphthalene	17.41	2.5	40	0	43.5	35	98.1	0			
Acenaphthylene	22.83	2.5	40.1	0	56.9	48.3	95.1	0			
Acenaphthene	21.32	2.5	40	0	53.3	45	95	0			
Fluorene	2.63	0.8	4.01	0	65.6	46.8	93.4	0			
Phenanthrene	1.44	0.6	2.01	0	71.6	48.7	104	0			
Anthracene	1.56	0.6	2.01	0	77.6	47.5	102	0			
Fluoranthene	3.17	0.3	4.01	0	79.1	45.3	108	0			
Pyrene	3.12	0.3	4.01	0	77.8	43.8	109	0			
Benz(a)anthracene	0.32	0.02	0.401	0	79.8	40.3	115	0			
Chrysene	1.63	0.2	2.01	0	81.1	42.6	107	0			
Benzo(b)fluoranthene	0.39	0.05	0.501	0	77.8	48.6	107	0			
Benzo(k)fluoranthene	0.21	0.02	0.25	0	84.0	23.3	136	0			
Benzo(a)pyrene	0.21	0.02	0.251	0	83.7	33.4	117	0			
Dibenz(a,h)anthracene	0.42	0.04	0.501	0	83.8	27.3	139	0			
Benzo(g,h,i)perylene	0.41	0.03	0.5	0	82.0	38.2	117	0			
Indeno(1,2,3-cd)pyrene	0.898	0.08	1.002	0	89.6	39.9	125	0			

10/11

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

5/5/2005

Work Order Number 0505034

Received by GLS

Checklist completed by [Signature] | 5-5-05
Signature | Date

Matrix Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? 5° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____



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

Certified Mail: 7001 1140 0000 4022 0781

May 3, 2005

**RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001**

Dear Mr. Price,

Please find attached analytical results for the April 4, 2005 sampling event for wells MW #48 and MW #49 on the river terrace at the Giant Refining facility. Note that the results for well MW #49, located down gradient of the barrier wall, had a detection of benzene at a concentration of 41 ug/L. A BTEX sample was taken out of the San Juan River adjacent to MW #49. The results of that sample were non detect. We will continue to monitor both wells on a monthly basis and evaluate the concentration trends.

The second quarter 2005 sampling event for the San Juan River was conducted April 14, 2005. Analytical results are enclosed with this packet. There was not an exceedance of any WQCC standard or EPA maximum contaminant level during this sampling event.

Tank #33 and Fresh Water Pond samples were pulled on April 4, 2005. Analytical results are included with this packet. Tank #33 benzene levels were below WQCC standards at a concentration of 8.4 ug/L. Fresh Water Pond results were all non detect.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Hurtado".

Cindy Hurtado
Environmental Coordinator
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

COVER LETTER

April 19, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Terrace 4/05

Order No.: 0504042

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 3 samples on 4/5/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504042
 Project: River Terrace 4/05
 Lab ID: 0504042-01

Client Sample ID: MW #48
 Collection Date: 4/4/2005 9:45:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.8	1.0		mg/L	1	4/13/2005 6:53:11 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/13/2005 6:53:11 AM
Surr: DNOP	101	58-140		%REC	1	4/13/2005 6:53:11 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	22	2.5		mg/L	50	4/6/2005 11:19:58 PM
Surr: BFB	104	78.3-120		%REC	50	4/6/2005 11:19:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	4/6/2005 11:19:58 PM
Benzene	480	25		µg/L	50	4/6/2005 11:19:58 PM
Toluene	ND	25		µg/L	50	4/6/2005 11:19:58 PM
Ethylbenzene	1700	25		µg/L	50	4/6/2005 11:19:58 PM
Xylenes, Total	7500	25		µg/L	50	4/6/2005 11:19:58 PM
Surr: 4-Bromofluorobenzene	112	83.3-121		%REC	50	4/6/2005 11:19:58 PM
Surr: 4-Bromofluorobenzene	104	83.3-121		%REC	50	4/7/2005 2:24:43 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	150	13		µg/L	1	4/12/2005 8:45:38 PM
1-Methylnaphthalene	54	13		µg/L	1	4/12/2005 8:45:38 PM
2-Methylnaphthalene	70	13		µg/L	1	4/12/2005 8:45:38 PM
Acenaphthylene	ND	13		µg/L	1	4/12/2005 8:45:38 PM
Acenaphthene	ND	13		µg/L	1	4/12/2005 8:45:38 PM
Fluorene	ND	4.0		µg/L	1	4/12/2005 8:45:38 PM
Phenanthrene	ND	3.0		µg/L	1	4/12/2005 8:45:38 PM
Anthracene	ND	3.0		µg/L	1	4/12/2005 8:45:38 PM
Fluoranthene	ND	1.5		µg/L	1	4/12/2005 8:45:38 PM
Pyrene	ND	1.5		µg/L	1	4/12/2005 8:45:38 PM
Benz(a)anthracene	ND	0.10		µg/L	1	4/12/2005 8:45:38 PM
Chrysene	ND	1.0		µg/L	1	4/12/2005 8:45:38 PM
Benzo(b)fluoranthene	ND	0.25		µg/L	1	4/12/2005 8:45:38 PM
Benzo(k)fluoranthene	ND	0.10		µg/L	1	4/12/2005 8:45:38 PM
Benzo(a)pyrene	ND	0.10		µg/L	1	4/12/2005 8:45:38 PM
Dibenz(a,h)anthracene	ND	0.20		µg/L	1	4/12/2005 8:45:38 PM
Benzo(g,h,i)perylene	ND	0.15		µg/L	1	4/12/2005 8:45:38 PM
Indeno(1,2,3-cd)pyrene	ND	0.40		µg/L	1	4/12/2005 8:45:38 PM
Surr: Benzo(e)pyrene	63.9	54-102		%REC	1	4/12/2005 8:45:38 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504042
 Project: River Terrace 4/05
 Lab ID: 0504042-02

Client Sample ID: MW #49
 Collection Date: 4/4/2005 9:15:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/13/2005 7:22:48 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/13/2005 7:22:48 AM
Surr: DNOP	106	58-140		%REC	1	4/13/2005 7:22:48 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.52	0.050		mg/L	1	4/7/2005 12:19:51 AM
Surr: BFB	103	78.3-120		%REC	1	4/7/2005 12:19:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/7/2005 12:19:51 AM
Benzene	41	0.50		µg/L	1	4/7/2005 12:19:51 AM
Toluene	0.68	0.50		µg/L	1	4/7/2005 12:19:51 AM
Ethylbenzene	15	0.50		µg/L	1	4/7/2005 12:19:51 AM
Xylenes, Total	24	0.50		µg/L	1	4/7/2005 12:19:51 AM
Surr: 4-Bromofluorobenzene	111	83.3-121		%REC	1	4/7/2005 12:19:51 AM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	ND	2.5		µg/L	1	4/12/2005 9:33:38 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	4/12/2005 9:33:38 PM
2-Methylnaphthalene	ND	2.5		µg/L	1	4/12/2005 9:33:38 PM
Acenaphthylene	ND	2.5		µg/L	1	4/12/2005 9:33:38 PM
Acenaphthene	ND	2.5		µg/L	1	4/12/2005 9:33:38 PM
Fluorene	ND	0.80		µg/L	1	4/12/2005 9:33:38 PM
Phenanthrene	ND	0.60		µg/L	1	4/12/2005 9:33:38 PM
Anthracene	ND	0.60		µg/L	1	4/12/2005 9:33:38 PM
Fluoranthene	ND	0.30		µg/L	1	4/12/2005 9:33:38 PM
Pyrene	ND	0.30		µg/L	1	4/12/2005 9:33:38 PM
Benz(a)anthracene	ND	0.020		µg/L	1	4/12/2005 9:33:38 PM
Chrysene	ND	0.20		µg/L	1	4/12/2005 9:33:38 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	4/12/2005 9:33:38 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	4/12/2005 9:33:38 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	4/12/2005 9:33:38 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	4/12/2005 9:33:38 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	4/12/2005 9:33:38 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	4/12/2005 9:33:38 PM
Surr: Benzo(e)pyrene	71.5	54-102		%REC	1	4/12/2005 9:33:38 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining
Lab Order: 0504042
Project: River Terrace 4/05
Lab ID: 0504042-03

Client Sample ID: River Near MW # 49
Collection Date: 4/4/2005 9:30:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/7/2005 1:44:06 PM
Benzene	ND	0.50		µg/L	1	4/7/2005 1:44:06 PM
Toluene	ND	0.50		µg/L	1	4/7/2005 1:44:06 PM
Ethylbenzene	ND	0.50		µg/L	1	4/7/2005 1:44:06 PM
Xylenes, Total	ND	0.50		µg/L	1	4/7/2005 1:44:06 PM
Surr: 4-Bromofluorobenzene	103	83.3-121		%REC	1	4/7/2005 1:44:06 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
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0504042
 Project: River Terrace 4/05

Sample ID MB-7741 Batch ID: 7741 Test Code: SW8015 Units: mg/L Analysis Date 4/13/2005 5:23:14 AM Prep Date 4/11/2005
 Client ID: Run ID: FID(17A)_2_050412A SeqNo: 351425

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.079	0	1	0	108	58	140	0			

Sample ID Reagent Blank 5m Batch ID: R15025 Test Code: SW8015 Units: mg/L Analysis Date 4/6/2005 8:42:50 AM Prep Date
 Client ID: Run ID: PIDFID_050406A SeqNo: 349807

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	19.11	0	20	0	95.6	78.3	120	0			

Sample ID Reagent Blank 5m Batch ID: R15025 Test Code: SW8021 Units: µg/L Analysis Date 4/6/2005 8:42:50 AM Prep Date
 Client ID: Run ID: PIDFID_050406A SeqNo: 349804

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	20.01	0	20	0	100	83.3	121	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 /

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0504042
Project: River Terrace 4/05

Sample ID	Reagent Blank 5m	Batch ID: R15031	Test Code: SW8021	Units: µg/L	Analysis Date 4/7/2005 8:45:25 AM	Prep Date					
Client ID:	Run ID: PIDFID_050407A	SeqNo: 350059									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr. 4-Bromofluorobenzene	19.57	0	20	0	97.8	83.3	121	0			

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

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining

Work Order: 0504042

Project: River Terrace 4/05

Sample ID MB-7723 Batch ID: 7723 Test Code: SW8310 Units: µg/L Analysis Date 4/12/2005 4:45:40 PM Prep Date 4/6/2005

Client ID: Run ID: HUGO_050412A SeqNo: 351527

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.8									
Phenanthrene	ND	0.6									
Anthracene	ND	0.6									
Fluoranthene	ND	0.3									
Pyrene	ND	0.3									
Benz(a)anthracene	ND	0.02									
Chrysene	ND	0.2									
Benzo(b)fluoranthene	ND	0.05									
Benzo(k)fluoranthene	ND	0.02									
Benzo(a)pyrene	ND	0.02									
Dibenz(a,h)anthracene	ND	0.04									
Benzo(g,h,i)perylene	ND	0.03									
Indeno(1,2,3-cd)pyrene	ND	0.08									
Surr: Benzo(e)pyrene	7.65	0	10	0	76.5	54	102	0			

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

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

QC SUMMARY REPORT

Sample Matrix Spike

CLIENT: San Juan Refining
 Work Order: 0504042
 Project: River Terrace 4/05

Sample ID	0504042-02A MS	Batch ID:	R15025	Test Code:	SW8021	Units:	µg/L	Analysis Date	4/7/2005 1:19:46 AM	Prep Date	
Client ID:	MW #49	Run ID:	PIDFID_050406A	SeqNo:	349855						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	28.49	2.5	40	0	71.2	64.5	133	0			S
Benzene	49.58	0.5	20	33.78	79.0	85	114	0			
Toluene	19.58	0.5	20	2.239	86.7	85	112	0			
Ethylbenzene	30.76	0.5	20	12.48	91.4	88.6	113	0			
Xylenes, Total	73.53	0.5	60	18.86	91.1	89.4	112	0			
Surr: 4-Bromofluorobenzene	23.39	0	24	0	97.5	83.3	121	0			

Sample ID	0504042-02A MSD	Batch ID:	R15025	Test Code:	SW8021	Units:	µg/L	Analysis Date	4/7/2005 1:49:48 AM	Prep Date	
Client ID:	MW #49	Run ID:	PIDFID_050406A	SeqNo:	349857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	27.7	2.5	40	0	69.2	64.5	133	28.49	2.83	28	
Benzene	50	0.5	20	33.78	81.1	88.7	114	49.58	0.856	27	S
Toluene	19.25	0.5	20	2.239	85.1	85	112	19.58	1.68	19	
Ethylbenzene	30.82	0.5	20	12.48	91.7	88.6	113	30.76	0.209	10	
Xylenes, Total	73.21	0.5	60	18.86	90.6	89.4	112	73.53	0.440	13	
Surr: 4-Bromofluorobenzene	23.19	0	24	0	96.6	83.3	121	23.39	0.868	0	

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

Hall Environmental Analysis Laboratory

Date: 19-Apr-05

CLIENT: San Juan Refining
Work Order: 0504042
Project: River Terrace 4/05

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS-7741 Batch ID: 7741 Test Code: SW8015 Units: mg/L Analysis Date: 4/13/2005 5:53:08 AM Prep Date: 4/11/2005
 Client ID: Run ID: FID(17A) 2_050412A SeqNo: 351426

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.687	1	5	0	134	81.2	149	0			

Sample ID: LCS-7741 Batch ID: 7741 Test Code: SW8015 Units: mg/L Analysis Date: 4/13/2005 5:12:01 PM Prep Date: 4/11/2005
 Client ID: Run ID: FID(17A) 2_050412A SeqNo: 351565

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.592	1	5	0	112	81.2	149	6.687	17.8	23	

Sample ID: GRO lcs 2.5ug Batch ID: R15025 Test Code: SW8015 Units: mg/L Analysis Date: 4/7/2005 2:49:49 AM Prep Date:
 Client ID: Run ID: PIDFID_050406A SeqNo: 349934

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4384	0.05	0.5	0	87.7	82.6	114	0			

Sample ID: GRO lcsd 2.5ug Batch ID: R15025 Test Code: SW8015 Units: mg/L Analysis Date: 4/7/2005 3:19:52 AM Prep Date:
 Client ID: Run ID: PIDFID_050406A SeqNo: 349935

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.417	0.05	0.5	0	83.4	82.6	114	0.4384	5.00	8.39	

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0504042
 Project: River Terrace 4/05

Sample ID BTEX LCS 100ng Batch ID: R15025 Test Code: SW8021 Analysis Date 4/16/2005 9:19:48 PM Prep Date

Client ID: Run ID: PIDFID_050406A Units: µg/L SeqNo: 349859

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	34.55	2.5	40	0	86.4	64.5	133	0			
Benzene	20.08	0.5	20	0	100	88.7	114	0			
Toluene	20.21	0.5	20	0	101	89.3	112	0			
Ethylbenzene	20.92	0.5	20	0	105	88.6	113	0			
Xylenes, Total	59.68	0.5	60	0	99.5	89.4	112	0			

Sample ID BTEX lcs 100ng Batch ID: R15031 Test Code: SW8021 Analysis Date 4/7/2005 11:29:24 AM Prep Date

Client ID: Run ID: PIDFID_050407A Units: µg/L SeqNo: 350061

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	36.16	2.5	40	0	90.4	64.5	133	0			
Benzene	20.94	0.5	20	0	105	88.7	114	0			
Toluene	20.37	0.5	20	0	102	89.3	112	0			
Ethylbenzene	21.18	0.5	20	0	106	88.6	113	0			
Xylenes, Total	61.63	0.5	60	0	103	89.4	112	0			

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0504042
 Project: River Terrace 4/05

Sample ID LCS-7723 Batch ID: 7723 Test Code: SW8310 Units: µg/L Analysis Date 4/12/2005 5:33:40 PM Prep Date 4/6/2005
 Client ID: Run ID: HUGO_050412A SeqNo: 351528

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	22.91	2.5	40	0	57.3	49.1	92.3	0			
1-Methylnaphthalene	23.88	2.5	40.1	0	59.6	49.7	93.6	0			
2-Methylnaphthalene	23.53	2.5	40	0	58.8	50.1	91.7	0			
Acenaphthylene	28.14	2.5	40.1	0	70.2	54	93	0			
Acenaphthene	27.26	2.5	40	0	68.2	49.5	93.6	0			
Fluorene	2.91	0.8	4.01	0	72.6	46.8	93.4	0			
Phenanthrene	1.46	0.6	2.01	0	72.6	48.7	104	0			
Anthracene	1.52	0.6	2.01	0	75.6	47.5	102	0			
Fluoranthene	3.02	0.3	4.01	0	75.3	46.3	108	0			
Pyrene	2.99	0.3	4.01	0	74.6	43.8	109	0			
Benz(a)anthracene	0.3	0.02	0.401	0	74.8	40.3	115	0			
Chrysene	1.61	0.2	2.01	0	80.1	42.6	107	0			
Benzo(b)fluoranthene	0.29	0.05	0.501	0	57.9	48.6	107	0			
Benzo(k)fluoranthene	0.19	0.02	0.25	0	76.0	23.3	136	0			
Benzo(a)pyrene	0.18	0.02	0.251	0	71.7	33.4	117	0			
Dibenz(a,h)anthracene	0.37	0.04	0.501	0	73.9	27.3	139	0			
Benzo(g,h,i)perylene	0.35	0.03	0.5	0	70.0	38.2	117	0			
Indeno(1,2,3-cd)pyrene	0.738	0.08	1.002	0	73.7	39.9	125	0			

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

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0504042
 Project: River Terrace 4/05

Sample ID LCSD-7723 Batch ID: 7723 Test Code: SW8310 Units: µg/L Analysis Date 4/12/2005 6:21:40 PM Prep Date 4/6/2005

Client ID: HUGO_050412A Run ID: HUGO_050412A SeqNo: 351529

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Naphthalene	18.58	2.5	40	0	46.5	49.1	92.3	22.91	20.9	32.1	S
1-Methylnaphthalene	18.89	2.5	40.1	0	47.1	49.7	93.6	23.88	23.3	32.7	S
2-Methylnaphthalene	18.72	2.5	40	0	46.8	50.1	91.7	23.53	22.8	34	S
Acenaphthylene	22.63	2.5	40.1	0	56.4	54	93	28.14	21.7	38.8	
Acenaphthene	22.34	2.5	40	0	55.9	49.5	93.6	27.26	19.8	38.6	
Fluorene	2.51	0.8	4.01	0	62.6	46.8	93.4	2.91	14.8	39.3	
Phenanthrene	1.31	0.6	2.01	0	65.2	48.7	104	1.46	10.8	25	
Anthracene	1.37	0.6	2.01	0	68.2	47.5	102	1.52	10.4	23.9	
Fluoranthene	2.86	0.3	4.01	0	71.3	46.3	108	3.02	5.44	15.7	
Pyrene	2.89	0.3	4.01	0	72.1	43.8	109	2.99	3.40	15.3	
Benz(a)anthracene	0.28	0.02	0.401	0	69.8	40.3	115	0.3	6.90	119	
Chrysene	1.42	0.2	2.01	0	70.6	42.6	107	1.61	12.5	16.6	
Benzo(b)fluoranthene	0.27	0.05	0.501	0	53.9	48.6	107	0.29	7.14	21.7	
Benzo(k)fluoranthene	0.17	0.02	0.25	0	68.0	23.3	136	0.19	11.1	19.4	
Benzo(a)pyrene	0.15	0.02	0.251	0	59.8	33.4	117	0.18	18.2	16.7	R
Dibenz(a,h)anthracene	0.33	0.04	0.501	0	65.9	27.3	139	0.37	11.4	17.3	
Benzo(g,h,i)perylene	0.34	0.03	0.5	0	68.0	38.2	117	0.35	2.90	118	
Indeno(1,2,3-cd)pyrene	0.711	0.08	1.002	0	71.0	39.9	125	0.738	3.73	17.7	

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

4/5/2005

Work Order Number 0504042

Received by AT

Checklist completed by

[Handwritten Signature]

Signature

4/5/05

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 Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature?

1°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: SAN JUAN Refining

Address: #50 Rd 4990
Bloomfield, NM
87413

Phone #: 505-632-4141
 Fax #: 505-632-3911

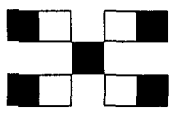
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
4/24/05	9:55A	H2O	MW# 48	2-VOA		HCL	50442-1
				2-VOA		HCL	-1
				1-liter		Amoy	-1

Date: 4/24/05 Time: 3PM
 Relinquished By: (Signature) Cindy Huatado
 Relinquished By: (Signature) _____
 Received By: (Signature) [Signature] Date: 4/15/05
 Received By: (Signature) _____ Date: 10/7

QA/QC Package: Std Level 4
 Other: _____
 Project Name: River Terrace - 4/05
 Project #: _____
 Project Manager: _____

Sampler: Cindy Huatado / Angela Folk
 Sample Temperature: 10.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com



ANALYSIS REQUEST

BTEX + MTBE + TPB (Gasoline Only)	BTEX + MTBE + TPB (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F ⁻ , Cl ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles or Headspace (Y or N)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remarks:

CHAIN-OF-CUSTODY RECORD

Client: SAN JUAN Refining

Address: #50 Rd 4990
Bloomfield NM
87413

Phone #: 505-632-4161
 Fax #: 505-632-3911

GA/QC Package:
 Std Level 4

Other:
 Project Name: River Terrace - 4/05

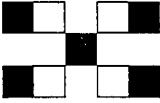
Project #: _____
 Project Manager: _____
 Sampler: Cindy Hurtado / Angela Folk
 Sample Temperature: 10

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
4/04/05	9:5A	H ₂ O	MW #49	2-VOA			HL 050402-2
				2-VOA			HL -2
				1-liter			ANAL -2
4/04/05	9:30A	H ₂ O	River Near MW#49	2-VOA			-3

Date: 4/04/05 Time: 3pm
 Date: _____ Time: _____
 Relinquished By: (Signature) Cindy Hurtado
 Relinquished By: (Signature) _____
 Received By: (Signature) [Signature]
 Received By: (Signature) _____

1017

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com



ANALYSIS REQUEST

BTEX + MTBE + TMS (8024)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles or Headspace (Y or N)
X		X				X						

Remarks:

COVER LETTER

April 29, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Sampling 2nd Qtr-2005

Order No.: 0504130

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 4 samples on 4/14/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining

Client Sample ID: Upstream River

Lab Order: 0504130

Collection Date: 4/13/2005 8:30:00 AM

Project: River Sampling 2nd Qtr-2005

Lab ID: 0504130-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
						Analyst: MAP
Fluoride	0.22	0.10		mg/L	1	4/14/2005
Chloride	4.1	0.10		mg/L	1	4/14/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	4/14/2005
Bromide	ND	0.50		mg/L	1	4/14/2005
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	4/14/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	4/14/2005
Sulfate	88	2.5		mg/L	5	4/26/2005
EPA METHOD 310.1: ALKALINITY						
						Analyst: MAP
Alkalinity, Total (As CaCO3)	96	4.0		mg/L CaCO3	2	4/26/2005
Carbonate	ND	4.0		mg/L CaCO3	2	4/26/2005
Bicarbonate	96	4.0		mg/L CaCO3	2	4/26/2005
EPA METHOD 8015B: DIESEL RANGE						
						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/22/2005 10:55:03 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/22/2005 10:55:03 AM
Surr: DNOP	103	58-140		%REC	1	4/22/2005 10:55:03 AM
EPA METHOD 8015B: GASOLINE RANGE						
						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/15/2005 10:10:24 PM
Surr: BFB	94.2	78.3-120		%REC	1	4/15/2005 10:10:24 PM
EPA METHOD 8021B: VOLATILES						
						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/15/2005 10:10:24 PM
Benzene	ND	0.50		µg/L	1	4/15/2005 10:10:24 PM
Toluene	ND	0.50		µg/L	1	4/15/2005 10:10:24 PM
Ethylbenzene	ND	0.50		µg/L	1	4/15/2005 10:10:24 PM
Xylenes, Total	ND	0.50		µg/L	1	4/15/2005 10:10:24 PM
EPA METHOD 8270C: SEMIVOLATILES						
						Analyst: BL
Acenaphthene	ND	10		µg/L	1	4/22/2005
Acenaphthylene	ND	10		µg/L	1	4/22/2005
Aniline	ND	10		µg/L	1	4/22/2005
Anthracene	ND	10		µg/L	1	4/22/2005
Azobenzene	ND	10		µg/L	1	4/22/2005
Benz(a)anthracene	ND	15		µg/L	1	4/22/2005
Benzo(a)pyrene	ND	10		µg/L	1	4/22/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	4/22/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/22/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	4/22/2005
Benzoic acid	ND	50		µg/L	1	4/22/2005
Benzyl alcohol	ND	20		µg/L	1	4/22/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504130
 Project: River Sampling 2nd Qtr-2005
 Lab ID: 0504130-01

Client Sample ID: Upstream River
 Collection Date: 4/13/2005 8:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Bis(2-chloroethyl)ether	ND	15		µg/L	1	4/22/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	4/22/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	4/22/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/22/2005
Butyl benzyl phthalate	ND	15		µg/L	1	4/22/2005
Carbazole	ND	10		µg/L	1	4/22/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	4/22/2005
4-Chloroaniline	ND	20		µg/L	1	4/22/2005
2-Chloronaphthalene	ND	10		µg/L	1	4/22/2005
2-Chlorophenol	ND	10		µg/L	1	4/22/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	4/22/2005
Chrysene	ND	15		µg/L	1	4/22/2005
Di-n-butyl phthalate	ND	10		µg/L	1	4/22/2005
Di-n-octyl phthalate	ND	15		µg/L	1	4/22/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/22/2005
Dibenzofuran	ND	10		µg/L	1	4/22/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	4/22/2005
Diethyl phthalate	ND	10		µg/L	1	4/22/2005
Dimethyl phthalate	ND	10		µg/L	1	4/22/2005
2,4-Dichlorophenol	ND	10		µg/L	1	4/22/2005
2,4-Dimethylphenol	ND	10		µg/L	1	4/22/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	4/22/2005
2,4-Dinitrophenol	ND	50		µg/L	1	4/22/2005
2,4-Dinitrotoluene	ND	10		µg/L	1	4/22/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	4/22/2005
Fluoranthene	ND	10		µg/L	1	4/22/2005
Fluorene	ND	10		µg/L	1	4/22/2005
Hexachlorobenzene	ND	10		µg/L	1	4/22/2005
Hexachlorobutadiene	ND	10		µg/L	1	4/22/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/22/2005
Hexachloroethane	ND	10		µg/L	1	4/22/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/22/2005
Isophorone	ND	10		µg/L	1	4/22/2005
2-Methylnaphthalene	ND	10		µg/L	1	4/22/2005
2-Methylphenol	ND	15		µg/L	1	4/22/2005
3+4-Methylphenol	ND	10		µg/L	1	4/22/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/22/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	4/22/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining

Client Sample ID: Upstream River

Lab Order: 0504130

Collection Date: 4/13/2005 8:30:00 AM

Project: River Sampling 2nd Qtr-2005

Lab ID: 0504130-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Naphthalene	ND	10		µg/L	1	4/22/2005
2-Nitroaniline	ND	50		µg/L	1	4/22/2005
3-Nitroaniline	ND	50		µg/L	1	4/22/2005
4-Nitroaniline	ND	20		µg/L	1	4/22/2005
Nitrobenzene	ND	10		µg/L	1	4/22/2005
2-Nitrophenol	ND	15		µg/L	1	4/22/2005
4-Nitrophenol	ND	50		µg/L	1	4/22/2005
Pentachlorophenol	ND	50		µg/L	1	4/22/2005
Phenanthrene	ND	10		µg/L	1	4/22/2005
Phenol	ND	10		µg/L	1	4/22/2005
Pyrene	ND	15		µg/L	1	4/22/2005
Pyridine	ND	30		µg/L	1	4/22/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/22/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/22/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	4/22/2005
Surr: 2,4,6-Tribromophenol	60.3	16.6-115		%REC	1	4/22/2005
Surr: 2-Fluorobiphenyl	58.3	37-95.7		%REC	1	4/22/2005
Surr: 2-Fluorophenol	42.8	9.54-89.8		%REC	1	4/22/2005
Surr: 4-Terphenyl-d14	69.1	47.9-115		%REC	1	4/22/2005
Surr: Nitrobenzene-d5	62.3	38-106		%REC	1	4/22/2005
Surr: Phenol-d6	29.4	10.7-63.4		%REC	1	4/22/2005
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: CMC
Specific Conductance	400	0.010		µmhos/cm	1	4/21/2005
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	4/26/2005
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/22/2005 11:10:49 AM
Barium	0.073	0.0020		mg/L	1	4/22/2005 11:10:49 AM
Cadmium	ND	0.0020		mg/L	1	4/22/2005 11:10:49 AM
Calcium	38	1.0		mg/L	1	4/22/2005 11:10:49 AM
Chromium	ND	0.0060		mg/L	1	4/22/2005 11:10:49 AM
Copper	ND	0.0060		mg/L	1	4/22/2005 11:10:49 AM
Iron	0.037	0.020		mg/L	1	4/22/2005 11:10:49 AM
Lead	ND	0.0050		mg/L	1	4/22/2005 11:10:49 AM
Magnesium	6.7	1.0		mg/L	1	4/22/2005 11:10:49 AM
Manganese	0.014	0.0020		mg/L	1	4/22/2005 11:10:49 AM
Potassium	2.1	1.0		mg/L	1	4/22/2005 3:06:16 PM
Selenium	ND	0.050		mg/L	1	4/22/2005 11:10:49 AM
Silver	ND	0.0050		mg/L	1	4/22/2005 3:06:16 PM
Sodium	28	1.0		mg/L	1	4/22/2005 11:10:49 AM
Uranium	ND	0.10		mg/L	1	4/22/2005 11:10:49 AM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504130
 Project: River Sampling 2nd Qtr-2005
 Lab ID: 0504130-01

Client Sample ID: Upstream River
 Collection Date: 4/13/2005 8:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Zinc	0.010	0.0050		mg/L	1	4/22/2005 3:06:16 PM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/26/2005 9:21:05 AM
Barium	0.092	0.020		mg/L	1	4/28/2005 9:14:26 AM
Cadmium	ND	0.0020		mg/L	1	4/26/2005 9:21:05 AM
Chromium	ND	0.0060		mg/L	1	4/26/2005 9:21:05 AM
Lead	ND	0.0050		mg/L	1	4/26/2005 9:21:05 AM
Selenium	ND	0.050		mg/L	1	4/26/2005 9:21:05 AM
Silver	ND	0.0050		mg/L	1	4/26/2005 9:21:05 AM
EPA METHOD 160.1: TDS						Analyst: MAP
Total Dissolved Solids	260	50		mg/L	1	4/21/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining

Client Sample ID: N of MW #45

Lab Order: 0504130

Collection Date: 4/13/2005 10:00:00 AM

Project: River Sampling 2nd Qtr-2005

Lab ID: 0504130-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Fluoride	0.16	0.10		mg/L	1	4/14/2005
Chloride	4.0	0.10		mg/L	1	4/14/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	4/14/2005
Bromide	ND	0.50		mg/L	1	4/14/2005
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	4/14/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	4/14/2005
Sulfate	84	2.5		mg/L	5	4/26/2005
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
Alkalinity, Total (As CaCO3)	100	4.0		mg/L CaCO3	2	4/26/2005
Carbonate	ND	4.0		mg/L CaCO3	2	4/26/2005
Bicarbonate	100	4.0		mg/L CaCO3	2	4/26/2005
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/22/2005 11:24:58 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/22/2005 11:24:58 AM
Surr. DNOP	111	58-140		%REC	1	4/22/2005 11:24:58 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/15/2005 10:40:46 PM
Surr. BFB	93.9	78.3-120		%REC	1	4/15/2005 10:40:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/15/2005 10:40:46 PM
Benzene	ND	0.50		µg/L	1	4/15/2005 10:40:46 PM
Toluene	ND	0.50		µg/L	1	4/15/2005 10:40:46 PM
Ethylbenzene	ND	0.50		µg/L	1	4/15/2005 10:40:46 PM
Xylenes, Total	ND	0.50		µg/L	1	4/15/2005 10:40:46 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	10		µg/L	1	4/22/2005
Acenaphthylene	ND	10		µg/L	1	4/22/2005
Aniline	ND	10		µg/L	1	4/22/2005
Anthracene	ND	10		µg/L	1	4/22/2005
Azobenzene	ND	10		µg/L	1	4/22/2005
Benz(a)anthracene	ND	15		µg/L	1	4/22/2005
Benzo(a)pyrene	ND	10		µg/L	1	4/22/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	4/22/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/22/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	4/22/2005
Benzoic acid	ND	50		µg/L	1	4/22/2005
Benzyl alcohol	ND	20		µg/L	1	4/22/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/22/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504130
 Project: River Sampling 2nd Qtr-2005
 Lab ID: 0504130-02

Client Sample ID: N of MW #45
 Collection Date: 4/13/2005 10:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Bis(2-chloroethyl)ether	ND	15		µg/L	1	4/22/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	4/22/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	4/22/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/22/2005
Butyl benzyl phthalate	ND	15		µg/L	1	4/22/2005
Carbazole	ND	10		µg/L	1	4/22/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	4/22/2005
4-Chloroaniline	ND	20		µg/L	1	4/22/2005
2-Chloronaphthalene	ND	10		µg/L	1	4/22/2005
2-Chlorophenol	ND	10		µg/L	1	4/22/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	4/22/2005
Chrysene	ND	15		µg/L	1	4/22/2005
Di-n-butyl phthalate	ND	10		µg/L	1	4/22/2005
Di-n-octyl phthalate	ND	15		µg/L	1	4/22/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/22/2005
Dibenzofuran	ND	10		µg/L	1	4/22/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	4/22/2005
Diethyl phthalate	ND	10		µg/L	1	4/22/2005
Dimethyl phthalate	ND	10		µg/L	1	4/22/2005
2,4-Dichlorophenol	ND	10		µg/L	1	4/22/2005
2,4-Dimethylphenol	ND	10		µg/L	1	4/22/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	4/22/2005
2,4-Dinitrophenol	ND	50		µg/L	1	4/22/2005
2,4-Dinitrotoluene	ND	10		µg/L	1	4/22/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	4/22/2005
Fluoranthene	ND	10		µg/L	1	4/22/2005
Fluorene	ND	10		µg/L	1	4/22/2005
Hexachlorobenzene	ND	10		µg/L	1	4/22/2005
Hexachlorobutadiene	ND	10		µg/L	1	4/22/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/22/2005
Hexachloroethane	ND	10		µg/L	1	4/22/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/22/2005
Isophorone	ND	10		µg/L	1	4/22/2005
2-Methylnaphthalene	ND	10		µg/L	1	4/22/2005
2-Methylphenol	ND	15		µg/L	1	4/22/2005
3+4-Methylphenol	ND	10		µg/L	1	4/22/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/22/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	4/22/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining

Client Sample ID: N of MW #45

Lab Order: 0504130

Collection Date: 4/13/2005 10:00:00 AM

Project: River Sampling 2nd Qtr-2005

Lab ID: 0504130-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Naphthalene	ND	10		µg/L	1	4/22/2005
2-Nitroaniline	ND	50		µg/L	1	4/22/2005
3-Nitroaniline	ND	50		µg/L	1	4/22/2005
4-Nitroaniline	ND	20		µg/L	1	4/22/2005
Nitrobenzene	ND	10		µg/L	1	4/22/2005
2-Nitrophenol	ND	15		µg/L	1	4/22/2005
4-Nitrophenol	ND	50		µg/L	1	4/22/2005
Pentachlorophenol	ND	50		µg/L	1	4/22/2005
Phenanthrene	ND	10		µg/L	1	4/22/2005
Phenol	ND	10		µg/L	1	4/22/2005
Pyrene	ND	15		µg/L	1	4/22/2005
Pyridine	ND	30		µg/L	1	4/22/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/22/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/22/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	4/22/2005
Surr: 2,4,6-Tribromophenol	68.8	16.6-115		%REC	1	4/22/2005
Surr: 2-Fluorobiphenyl	62.7	37-95.7		%REC	1	4/22/2005
Surr: 2-Fluorophenol	45.0	9.54-89.8		%REC	1	4/22/2005
Surr: 4-Terphenyl-d14	73.9	47.9-115		%REC	1	4/22/2005
Surr: Nitrobenzene-d5	61.5	38-106		%REC	1	4/22/2005
Surr: Phenol-d6	32.8	10.7-63.4		%REC	1	4/22/2005
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: CMC
Specific Conductance	390	0.010		µmhos/cm	1	4/21/2005
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	4/26/2005
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/22/2005 11:13:49 AM
Barium	0.075	0.0020		mg/L	1	4/22/2005 11:13:49 AM
Cadmium	ND	0.0020		mg/L	1	4/22/2005 11:13:49 AM
Calcium	38	1.0		mg/L	1	4/22/2005 11:13:49 AM
Chromium	ND	0.0060		mg/L	1	4/22/2005 11:13:49 AM
Copper	ND	0.0060		mg/L	1	4/22/2005 11:13:49 AM
Iron	0.038	0.020		mg/L	1	4/22/2005 11:13:49 AM
Lead	ND	0.0050		mg/L	1	4/22/2005 11:13:49 AM
Magnesium	6.6	1.0		mg/L	1	4/22/2005 11:13:49 AM
Manganese	0.0094	0.0020		mg/L	1	4/22/2005 11:13:49 AM
Potassium	2.1	1.0		mg/L	1	4/22/2005 3:08:49 PM
Selenium	ND	0.050		mg/L	1	4/22/2005 11:13:49 AM
Silver	ND	0.0050		mg/L	1	4/22/2005 3:08:49 PM
Sodium	26	1.0		mg/L	1	4/22/2005 11:13:49 AM
Uranium	ND	0.10		mg/L	1	4/22/2005 11:13:49 AM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504130
 Project: River Sampling 2nd Qtr-2005
 Lab ID: 0504130-02

Client Sample ID: N of MW #45
 Collection Date: 4/13/2005 10:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Zinc	0.016	0.0050		mg/L	1	4/22/2005 3:08:49 PM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/26/2005 9:23:58 AM
Barium	0.084	0.020		mg/L	1	4/28/2005 9:16:02 AM
Cadmium	ND	0.0020		mg/L	1	4/26/2005 9:23:58 AM
Chromium	ND	0.0060		mg/L	1	4/26/2005 9:23:58 AM
Lead	ND	0.0050		mg/L	1	4/26/2005 9:23:58 AM
Selenium	ND	0.050		mg/L	1	4/26/2005 9:23:58 AM
Silver	ND	0.0050		mg/L	1	4/26/2005 9:23:58 AM
EPA METHOD 160.1: TDS						Analyst: MAP
Total Dissolved Solids	260	50		mg/L	1	4/21/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504130
 Project: River Sampling 2nd Qtr-2005
 Lab ID: 0504130-03

Client Sample ID: N of MW #46
 Collection Date: 4/13/2005 11:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
						Analyst: MAP
Fluoride	0.16	0.10		mg/L	1	4/14/2005
Chloride	4.0	0.10		mg/L	1	4/14/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	4/14/2005
Bromide	ND	0.50		mg/L	1	4/14/2005
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	4/14/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	4/14/2005
Sulfate	82	2.5		mg/L	5	4/26/2005
EPA METHOD 310.1: ALKALINITY						
						Analyst: MAP
Alkalinity, Total (As CaCO3)	100	4.0		mg/L CaCO3	2	4/26/2005
Carbonate	ND	4.0		mg/L CaCO3	2	4/26/2005
Bicarbonate	100	4.0		mg/L CaCO3	2	4/26/2005
EPA METHOD 8015B: DIESEL RANGE						
						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/22/2005 11:55:39 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/22/2005 11:55:39 AM
Surr: DNOP	80.0	58-140		%REC	1	4/22/2005 11:55:39 AM
EPA METHOD 8015B: GASOLINE RANGE						
						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/15/2005 11:11:07 PM
Surr: BFB	97.6	78.3-120		%REC	1	4/15/2005 11:11:07 PM
EPA METHOD 8021B: VOLATILES						
						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/15/2005 11:11:07 PM
Benzene	ND	0.50		µg/L	1	4/15/2005 11:11:07 PM
Toluene	ND	0.50		µg/L	1	4/15/2005 11:11:07 PM
Ethylbenzene	ND	0.50		µg/L	1	4/15/2005 11:11:07 PM
Xylenes, Total	ND	0.50		µg/L	1	4/15/2005 11:11:07 PM
EPA METHOD 8270C: SEMIVOLATILES						
						Analyst: BL
Acenaphthene	ND	10		µg/L	1	4/22/2005
Acenaphthylene	ND	10		µg/L	1	4/22/2005
Aniline	ND	10		µg/L	1	4/22/2005
Anthracene	ND	10		µg/L	1	4/22/2005
Azobenzene	ND	10		µg/L	1	4/22/2005
Benz(a)anthracene	ND	15		µg/L	1	4/22/2005
Benzo(a)pyrene	ND	10		µg/L	1	4/22/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	4/22/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/22/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	4/22/2005
Benzoic acid	ND	50		µg/L	1	4/22/2005
Benzyl alcohol	ND	20		µg/L	1	4/22/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504130
 Project: River Sampling 2nd Qtr-2005
 Lab ID: 0504130-03

Client Sample ID: N of MW #46
 Collection Date: 4/13/2005 11:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Bis(2-chloroethyl)ether	ND	15		µg/L	1	4/22/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	4/22/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	4/22/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/22/2005
Butyl benzyl phthalate	ND	15		µg/L	1	4/22/2005
Carbazole	ND	10		µg/L	1	4/22/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	4/22/2005
4-Chloroaniline	ND	20		µg/L	1	4/22/2005
2-Chloronaphthalene	ND	10		µg/L	1	4/22/2005
2-Chlorophenol	ND	10		µg/L	1	4/22/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	4/22/2005
Chrysene	ND	15		µg/L	1	4/22/2005
Di-n-butyl phthalate	ND	10		µg/L	1	4/22/2005
Di-n-octyl phthalate	ND	15		µg/L	1	4/22/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/22/2005
Dibenzofuran	ND	10		µg/L	1	4/22/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	4/22/2005
Diethyl phthalate	ND	10		µg/L	1	4/22/2005
Dimethyl phthalate	ND	10		µg/L	1	4/22/2005
2,4-Dichlorophenol	ND	10		µg/L	1	4/22/2005
2,4-Dimethylphenol	ND	10		µg/L	1	4/22/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	4/22/2005
2,4-Dinitrophenol	ND	50		µg/L	1	4/22/2005
2,4-Dinitrotoluene	ND	10		µg/L	1	4/22/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	4/22/2005
Fluoranthene	ND	10		µg/L	1	4/22/2005
Fluorene	ND	10		µg/L	1	4/22/2005
Hexachlorobenzene	ND	10		µg/L	1	4/22/2005
Hexachlorobutadiene	ND	10		µg/L	1	4/22/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/22/2005
Hexachloroethane	ND	10		µg/L	1	4/22/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/22/2005
Isophorone	ND	10		µg/L	1	4/22/2005
2-Methylnaphthalene	ND	10		µg/L	1	4/22/2005
2-Methylphenol	ND	15		µg/L	1	4/22/2005
3+4-Methylphenol	ND	10		µg/L	1	4/22/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/22/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	4/22/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504130
 Project: River Sampling 2nd Qtr-2005
 Lab ID: 0504130-03

Client Sample ID: N of MW #46
 Collection Date: 4/13/2005 11:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Naphthalene	ND	10		µg/L	1	4/22/2005
2-Nitroaniline	ND	50		µg/L	1	4/22/2005
3-Nitroaniline	ND	50		µg/L	1	4/22/2005
4-Nitroaniline	ND	20		µg/L	1	4/22/2005
Nitrobenzene	ND	10		µg/L	1	4/22/2005
2-Nitrophenol	ND	15		µg/L	1	4/22/2005
4-Nitrophenol	ND	50		µg/L	1	4/22/2005
Pentachlorophenol	ND	50		µg/L	1	4/22/2005
Phenanthrene	ND	10		µg/L	1	4/22/2005
Phenol	ND	10		µg/L	1	4/22/2005
Pyrene	ND	15		µg/L	1	4/22/2005
Pyridine	ND	30		µg/L	1	4/22/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/22/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/22/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	4/22/2005
Surr: 2,4,6-Tribromophenol	66.0	16.6-115		%REC	1	4/22/2005
Surr: 2-Fluorobiphenyl	59.6	37-95.7		%REC	1	4/22/2005
Surr: 2-Fluorophenol	47.2	9.54-89.8		%REC	1	4/22/2005
Surr: 4-Terphenyl-d14	67.5	47.9-115		%REC	1	4/22/2005
Surr: Nitrobenzene-d5	62.4	38-106		%REC	1	4/22/2005
Surr: Phenol-d6	30.8	10.7-63.4		%REC	1	4/22/2005
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: CMC
Specific Conductance	390	0.010		µmhos/cm	1	4/21/2005
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	0.00031	0.00020		mg/L	1	4/26/2005
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/22/2005 11:16:46 AM
Barium	0.073	0.0020		mg/L	1	4/22/2005 11:16:46 AM
Cadmium	ND	0.0020		mg/L	1	4/22/2005 11:16:46 AM
Calcium	38	1.0		mg/L	1	4/22/2005 11:16:46 AM
Chromium	ND	0.0060		mg/L	1	4/22/2005 11:16:46 AM
Copper	ND	0.0060		mg/L	1	4/22/2005 11:16:46 AM
Iron	0.041	0.020		mg/L	1	4/22/2005 11:16:46 AM
Lead	ND	0.0050		mg/L	1	4/22/2005 11:16:46 AM
Magnesium	6.5	1.0		mg/L	1	4/22/2005 11:16:46 AM
Manganese	0.0080	0.0020		mg/L	1	4/22/2005 11:16:46 AM
Potassium	2.1	1.0		mg/L	1	4/22/2005 3:11:23 PM
Selenium	ND	0.050		mg/L	1	4/22/2005 11:16:46 AM
Silver	ND	0.0050		mg/L	1	4/22/2005 3:11:23 PM
Sodium	25	1.0		mg/L	1	4/22/2005 11:16:46 AM
Uranium	ND	0.10		mg/L	1	4/22/2005 11:16:46 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining

Client Sample ID: N of MW #46

Lab Order: 0504130

Collection Date: 4/13/2005 11:00:00 AM

Project: River Sampling 2nd Qtr-2005

Lab ID: 0504130-03

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Zinc	0.028	0.0050		mg/L	1	4/22/2005 3:11:23 PM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/26/2005 9:26:50 AM
Barium	0.083	0.020		mg/L	1	4/28/2005 9:17:23 AM
Cadmium	ND	0.0020		mg/L	1	4/26/2005 9:26:50 AM
Chromium	ND	0.0060		mg/L	1	4/26/2005 9:26:50 AM
Lead	ND	0.0050		mg/L	1	4/26/2005 9:26:50 AM
Selenium	ND	0.050		mg/L	1	4/26/2005 9:26:50 AM
Silver	ND	0.0050		mg/L	1	4/26/2005 9:26:50 AM
EPA METHOD 160.1: TDS						Analyst: MAP
Total Dissolved Solids	260	50		mg/L	1	4/21/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504130
 Project: River Sampling 2nd Qtr-2005
 Lab ID: 0504130-04

Client Sample ID: Downstream River
 Collection Date: 4/13/2005 9:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Fluoride	0.15	0.10		mg/L	1	4/14/2005
Chloride	4.2	0.10		mg/L	1	4/14/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	4/14/2005
Bromide	ND	0.50		mg/L	1	4/14/2005
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	4/14/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	4/14/2005
Sulfate	89	2.5		mg/L	5	4/26/2005
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
Alkalinity, Total (As CaCO ₃)	100	4.0		mg/L CaCO ₃	2	4/26/2005
Carbonate	ND	4.0		mg/L CaCO ₃	2	4/26/2005
Bicarbonate	100	4.0		mg/L CaCO ₃	2	4/26/2005
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/22/2005 12:25:35 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/22/2005 12:25:35 PM
Surr: DNOP	113	58-140		%REC	1	4/22/2005 12:25:35 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/15/2005 11:41:38 PM
Surr: BFB	98.8	78.3-120		%REC	1	4/15/2005 11:41:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/15/2005 11:41:38 PM
Benzene	ND	0.50		µg/L	1	4/15/2005 11:41:38 PM
Toluene	ND	0.50		µg/L	1	4/15/2005 11:41:38 PM
Ethylbenzene	ND	0.50		µg/L	1	4/15/2005 11:41:38 PM
Xylenes, Total	ND	0.50		µg/L	1	4/15/2005 11:41:38 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	10		µg/L	1	4/22/2005
Acenaphthylene	ND	10		µg/L	1	4/22/2005
Aniline	ND	10		µg/L	1	4/22/2005
Anthracene	ND	10		µg/L	1	4/22/2005
Azobenzene	ND	10		µg/L	1	4/22/2005
Benz(a)anthracene	ND	15		µg/L	1	4/22/2005
Benzo(a)pyrene	ND	10		µg/L	1	4/22/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	4/22/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/22/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	4/22/2005
Benzoic acid	ND	50		µg/L	1	4/22/2005
Benzyl alcohol	ND	20		µg/L	1	4/22/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/22/2005

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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504130
 Project: River Sampling 2nd Qtr-2005
 Lab ID: 0504130-04

Client Sample ID: Downstream River
 Collection Date: 4/13/2005 9:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Bis(2-chloroethyl)ether	ND	15		µg/L	1	4/22/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	4/22/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	4/22/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/22/2005
Butyl benzyl phthalate	ND	15		µg/L	1	4/22/2005
Carbazole	ND	10		µg/L	1	4/22/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	4/22/2005
4-Chloroaniline	ND	20		µg/L	1	4/22/2005
2-Chloronaphthalene	ND	10		µg/L	1	4/22/2005
2-Chlorophenol	ND	10		µg/L	1	4/22/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	4/22/2005
Chrysene	ND	15		µg/L	1	4/22/2005
Di-n-butyl phthalate	ND	10		µg/L	1	4/22/2005
Di-n-octyl phthalate	ND	15		µg/L	1	4/22/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/22/2005
Dibenzofuran	ND	10		µg/L	1	4/22/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	4/22/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	4/22/2005
Diethyl phthalate	ND	10		µg/L	1	4/22/2005
Dimethyl phthalate	ND	10		µg/L	1	4/22/2005
2,4-Dichlorophenol	ND	10		µg/L	1	4/22/2005
2,4-Dimethylphenol	ND	10		µg/L	1	4/22/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	4/22/2005
2,4-Dinitrophenol	ND	50		µg/L	1	4/22/2005
2,4-Dinitrotoluene	ND	10		µg/L	1	4/22/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	4/22/2005
Fluoranthene	ND	10		µg/L	1	4/22/2005
Fluorene	ND	10		µg/L	1	4/22/2005
Hexachlorobenzene	ND	10		µg/L	1	4/22/2005
Hexachlorobutadiene	ND	10		µg/L	1	4/22/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/22/2005
Hexachloroethane	ND	10		µg/L	1	4/22/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/22/2005
Isophorone	ND	10		µg/L	1	4/22/2005
2-Methylnaphthalene	ND	10		µg/L	1	4/22/2005
2-Methylphenol	ND	15		µg/L	1	4/22/2005
3+4-Methylphenol	ND	10		µg/L	1	4/22/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/22/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	4/22/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
Lab Order: 0504130
Project: River Sampling 2nd Qtr-2005
Lab ID: 0504130-04

Client Sample ID: Downstream River
Collection Date: 4/13/2005 9:30:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Naphthalene	ND	10		µg/L	1	4/22/2005
2-Nitroaniline	ND	50		µg/L	1	4/22/2005
3-Nitroaniline	ND	50		µg/L	1	4/22/2005
4-Nitroaniline	ND	20		µg/L	1	4/22/2005
Nitrobenzene	ND	10		µg/L	1	4/22/2005
2-Nitrophenol	ND	15		µg/L	1	4/22/2005
4-Nitrophenol	ND	50		µg/L	1	4/22/2005
Pentachlorophenol	ND	50		µg/L	1	4/22/2005
Phenanthrene	ND	10		µg/L	1	4/22/2005
Phenol	ND	10		µg/L	1	4/22/2005
Pyrene	ND	15		µg/L	1	4/22/2005
Pyridine	ND	30		µg/L	1	4/22/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/22/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/22/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	4/22/2005
Surr: 2,4,6-Tribromophenol	69.1	16.6-115		%REC	1	4/22/2005
Surr: 2-Fluorobiphenyl	61.4	37-95.7		%REC	1	4/22/2005
Surr: 2-Fluorophenol	52.1	9.54-89.8		%REC	1	4/22/2005
Surr: 4-Terphenyl-d14	67.7	47.9-115		%REC	1	4/22/2005
Surr: Nitrobenzene-d5	68.6	38-106		%REC	1	4/22/2005
Surr: Phenol-d6	34.6	10.7-63.4		%REC	1	4/22/2005
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: CMC
Specific Conductance	400	0.010		µmhos/cm	1	4/21/2005
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	4/26/2005
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/22/2005 11:19:44 AM
Barium	0.074	0.0020		mg/L	1	4/22/2005 11:19:44 AM
Cadmium	ND	0.0020		mg/L	1	4/22/2005 11:19:44 AM
Calcium	41	1.0		mg/L	1	4/22/2005 11:19:44 AM
Chromium	ND	0.0060		mg/L	1	4/22/2005 11:19:44 AM
Copper	ND	0.0060		mg/L	1	4/22/2005 11:19:44 AM
Iron	0.035	0.020		mg/L	1	4/22/2005 11:19:44 AM
Lead	ND	0.0050		mg/L	1	4/22/2005 11:19:44 AM
Magnesium	6.8	1.0		mg/L	1	4/22/2005 11:19:44 AM
Manganese	0.033	0.0020		mg/L	1	4/22/2005 11:19:44 AM
Potassium	2.2	1.0		mg/L	1	4/22/2005 3:13:02 PM
Selenium	ND	0.050		mg/L	1	4/22/2005 11:19:44 AM
Silver	ND	0.0050		mg/L	1	4/22/2005 3:13:02 PM
Sodium	27	1.0		mg/L	1	4/22/2005 11:19:44 AM
Uranium	ND	0.10		mg/L	1	4/22/2005 11:19:44 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
Lab Order: 0504130
Project: River Sampling 2nd Qtr-2005
Lab ID: 0504130-04

Client Sample ID: Downstream River
Collection Date: 4/13/2005 9:30:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Zinc	0.018	0.0050		mg/L	1	4/22/2005 3:13:02 PM
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/26/2005 9:29:14 AM
Barium	0.12	0.020		mg/L	1	4/28/2005 9:18:58 AM
Cadmium	ND	0.0020		mg/L	1	4/26/2005 9:29:14 AM
Chromium	ND	0.0060		mg/L	1	4/26/2005 9:29:14 AM
Lead	ND	0.0050		mg/L	1	4/26/2005 9:29:14 AM
Selenium	ND	0.050		mg/L	1	4/26/2005 9:29:14 AM
Silver	ND	0.0050		mg/L	1	4/26/2005 9:29:14 AM
EPA METHOD 160.1: TDS						Analyst: MAP
Total Dissolved Solids	270	50		mg/L	1	4/21/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

CLIENT: San Juan Refining
Work Order: 0504130
Project: River Sampling 2nd Qtr-2005

QC SUMMARY REPORT

Method Blank

Sample ID	MBLK	Batch ID: R15102	Test Code: E300	Units: mg/L	Analysis Date 4/14/2005	Prep Date					
Client ID:	Run ID: LC_050414A	SeqNo: 352292									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1									
Chloride	ND	0.1									
Nitrogen, Nitrite (As N)	ND	0.1									
Bromide	ND	0.5									
Nitrogen, Nitrate (As N)	ND	0.1									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									

Sample ID	MBLK	Batch ID: R15214	Test Code: E300	Units: mg/Kg	Analysis Date 4/26/2005	Prep Date					
Client ID:	Run ID: LC_050426A	SeqNo: 355853									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.3									
Chloride	ND	0.3									
Nitrogen, Nitrite (As N)	ND	0.3									
Bromide	ND	0.3									
Nitrogen, Nitrate (As N)	ND	0.3									
Phosphorus, Orthophosphate (As P)	ND	1.5									
Sulfate	ND	1.5									

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0504130
Project: River Sampling 2nd Qtr-2005

Sample ID	MBLK	Batch ID: R15214	Test Code: E300	Units: mg/L	Analysis Date 4/27/2005	Prep Date					
Client ID:		Run ID: LC_050426A	SeqNo: 355954								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1									
Chloride	ND	0.1									
Nitrogen, Nitrite (As N)	ND	0.1									
Bromide	ND	0.5									
Nitrogen, Nitrate (As N)	ND	0.1									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	0.227	0.5									J

Sample ID	MBLK	Batch ID: R15209	Test Code: E310.1	Units: mg/L CaCO3	Analysis Date 4/26/2005	Prep Date					
Client ID:		Run ID: WC_050426B	SeqNo: 355747								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2									
Carbonate	ND	2									
Bicarbonate	ND	2									

Sample ID	MB-7810	Batch ID: 7810	Test Code: SW8015	Units: mg/L	Analysis Date 4/22/2005 9:25:17 AM	Prep Date 4/20/2005					
Client ID:		Run ID: FID(17A) 2_050421A	SeqNo: 354679								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.05	0	1	0	105	58	140	0			

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0504130
Project: River Sampling 2nd Qtr-2005

Sample ID: Reagent Blank 5m **Batch ID:** R15110 **Test Code:** SW8015 **Units:** mg/L **Analysis Date:** 4/15/2005 7:48:44 AM **Prep Date:**
Client ID: PIDFID_050415A **SeqNo:** 352652

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	20.13	0	20	0	101	78.3	120	0			

Sample ID: Reagent Blank 5m **Batch ID:** R15110 **Test Code:** SW8021 **Units:** µg/L **Analysis Date:** 4/15/2005 7:48:44 AM **Prep Date:**
Client ID: PIDFID_050415A **SeqNo:** 352651

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0504130
Project: River Sampling 2nd Qtr-2005

Sample ID MB-7812 Batch ID: 7812 Test Code: SW8270C Units: µg/L Prep Date 4/20/2005
Client ID: ELMO_050422A Run ID: 355209 Analysis Date 4/22/2005 SeqNo: 355209

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Aniline	ND	10									
Anthracene	ND	10									
Azobenzene	ND	10									
Benz(a)anthracene	ND	15									
Benzo(a)pyrene	ND	10									
Benzo(b)fluoranthene	ND	10									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Benzoic acid	ND	50									
Benzyl alcohol	ND	20									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	15									
Bis(2-chloroisopropyl)ether	ND	15									
Bis(2-ethylhexyl)phthalate	ND	15									
4-Bromophenyl phenyl ether	ND	10									
Butyl benzyl phthalate	ND	15									
Carbazole	ND	10									
4-Chloro-3-methylphenol	ND	20									
4-Chloroaniline	ND	20									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
4-Chlorophenyl phenyl ether	ND	15									
Chrysene	ND	15									
Di-n-butyl phthalate	ND	10									
Di-n-octyl phthalate	ND	15									
Dibenz(a,h)anthracene	ND	10									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Dibenzofuran	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
3,3'-Dichlorobenzidine	ND	15
Diethyl phthalate	ND	10
Dimethyl phthalate	ND	10
2,4-Dichlorophenol	ND	10
2,4-Dimethylphenol	ND	10
4,6-Dinitro-2-methylphenol	ND	50
2,4-Dinitrophenol	ND	50
2,4-Dinitrotoluene	ND	10
2,6-Dinitrotoluene	ND	10
Fluoranthene	ND	10
Fluorene	ND	10
Hexachlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Hexachlorocyclopentadiene	ND	10
Hexachloroethane	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Isophorone	ND	10
2-Methylnaphthalene	ND	10
2-Methylphenol	ND	15
3+4-Methylphenol	ND	10
N-Nitrosodi-n-propylamine	ND	10
N-Nitrosodimethylamine	ND	10
N-Nitrosodiphenylamine	ND	10
Naphthalene	ND	10
2-Nitroaniline	ND	50
3-Nitroaniline	ND	50
4-Nitroaniline	ND	20
Nitrobenzene	ND	10
2-Nitrophenol	ND	15

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 5

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining

Work Order: 0504130

Project: River Sampling 2nd Qtr-2005

Sample ID	MB-7857	Batch ID: 7857	Test Code: SW7470	Units: mg/L	Analysis Date 4/26/2005	Prep Date 4/26/2005						
Client ID:	MI-LA254_050426A	Run ID:	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result										
Mercury		ND	0.0002									
4-Nitrophenol		ND	50									
Pentachlorophenol		ND	50									
Phenanthrene		ND	10									
Phenol		ND	10									
Pyrene		ND	15									
Pyridine		ND	30									
1,2,4-Trichlorobenzene		ND	10									
2,4,5-Trichlorophenol		ND	10									
2,4,6-Trichlorophenol		ND	15									
Surr: 2,4,6-Tribromophenol		149.8	0	200			74.9	16.6	115		0	
Surr: 2-Fluorobiphenyl		69.22	0	100			69.2	37	95.7		0	
Surr: 2-Fluorophenol		128.3	0	200			64.1	9.54	89.8		0	
Surr: 4-Terphenyl-d14		79.14	0	100			79.1	51.2	125		0	
Surr: Nitrobenzene-d5		78.3	0	100			78.3	38	106		0	
Surr: Phenol-d6		92.62	0	200			46.3	10.7	63.4		0	

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0504130
Project: River Sampling 2nd Qtr-2005

Sample ID MB Batch ID: R15182 Test Code: SW6010A Units: mg/L Analysis Date 4/22/2005 9:59:53 AM Prep Date
Client ID: Run ID: ICP_050422A SeqNo: 354758

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Cadmium	ND	0.002									
Calcium	ND	1									
Chromium	ND	0.006									
Copper	ND	0.006									
Iron	ND	0.02									
Lead	ND	0.005									
Magnesium	ND	1									
Manganese	0.0001578	0.002									J
Potassium	ND	1									
Selenium	ND	0.02									
Sodium	ND	1									
Uranium	ND	0.1									

Sample ID MB Batch ID: R15194 Test Code: SW6010A Units: mg/L Analysis Date 4/22/2005 2:57:05 PM Prep Date
Client ID: Run ID: ICP_050422C SeqNo: 355316

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	0.3855	1									J
Silver	ND	0.005									
Zinc	ND	0.05									

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

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID	MB-7825	Batch ID:	7825	Test Code:	SW6010A	Units:	mg/L	Analysis Date	4/26/2005 9:03:44 AM	Prep Date	4/22/2005
Client ID:		Run ID:	ICP_050428A	SeqNo:	355688						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Cadmium	ND	0.002									
Chromium	ND	0.006									
Lead	ND	0.005									
Selenium	ND	0.05									
Silver	0.001093	0.005									J

Sample ID	MB-7865	Batch ID:	7865	Test Code:	SW6010A	Units:	mg/L	Analysis Date	4/28/2005 9:05:12 AM	Prep Date	4/27/2005
Client ID:		Run ID:	ICP_050428A	SeqNo:	356576						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	0.02									

Sample ID	MB-7811	Batch ID:	7811	Test Code:	E160.1	Units:	mg/L	Analysis Date	4/21/2005	Prep Date	4/20/2005
Client ID:		Run ID:	WC_050421B	SeqNo:	354283						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	33	50									J

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

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

QC SUMMARY REPORT

Sample Duplicate

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID	0504130-01C DUP	Batch ID:	R15102	Test Code:	E300	Units:	mg/L	Analysis Date	4/14/2005	Prep Date	
Client ID:	Upstream River	Run ID:	LC_050414A	SeqNo:	352295						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.218	0.1	0	0	0	0	0	0.218	0	20	
Chloride	4.059	0.1	0	0	0	0	0	4.067	0.197	20	
Nitrogen, Nitrite (As N)	ND	0.1	0	0	0	0	0	0	0	20	
Bromide	ND	0.5	0	0	0	0	0	0	0	20	
Nitrogen, Nitrate (As N)	ND	0.1	0	0	0	0	0	0	0	20	
Phosphorus, Orthophosphate (As P)	ND	0.5	0	0	0	0	0	0	0	20	

Sample ID	0504130-04D DUP	Batch ID:	7825	Test Code:	SW6010A	Units:	mg/L	Analysis Date	4/26/2005 9:31:08 AM	Prep Date	4/22/2005
Client ID:	Downstream Rive	Run ID:	ICP_050426A	SeqNo:	355698						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02	0	0	0	0	0	0	0	30	
Cadmium	ND	0.002	0	0	0	0	0	0	0	30	
Chromium	0.001731	0.006	0	0	0	0	0	0	0	30	J
Lead	ND	0.005	0	0	0	0	0	0.00231	0	30	
Selenium	ND	0.05	0	0	0	0	0	0	0	30	
Silver	ND	0.005	0	0	0	0	0	0	0	30	

Sample ID	0504130-04D DUP	Batch ID:	7865	Test Code:	SW6010A	Units:	mg/L	Analysis Date	4/28/2005 9:21:10 AM	Prep Date	4/27/2005
Client ID:	Downstream Rive	Run ID:	ICP_050428A	SeqNo:	356584						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	0.117	0.02	0	0	0	0	0	0.1158	0.958	30	

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

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

QC SUMMARY REPORT

Sample Matrix Spike

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID	0504130-01C MS	Batch ID:	R15102	Test Code:	E300	Units:	mg/L	Analysis Date	4/14/2005	SeqNo:	352296	Prep Date	
Client ID:	Upstream River	Run ID:	LC_050414A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result											
Fluoride		0.695	0.1	0.5	0.218	0	95.4	80	120	0			
Chloride		9.266	0.1	5	4.067	0	104	80	120	0			
Nitrogen, Nitrite (As N)		0.984	0.1	1	0	0	98.4	80	120	0			
Bromide		2.787	0.5	2.5	0	0	111	80	120	0			
Nitrogen, Nitrate (As N)		2.649	0.1	2.5	0	0	106	80	120	0			
Phosphorus, Orthophosphate (As P)		5.357	0.5	5	0	0	107	80	120	0			

Sample ID	0504130-01C MSD	Batch ID:	R15102	Test Code:	E300	Units:	mg/L	Analysis Date	4/14/2005	SeqNo:	352297	Prep Date	
Client ID:	Upstream River	Run ID:	LC_050414A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result											
Fluoride		0.794	0.1	0.5	0.218	0	115	80	120	0.695	13.3	20	
Chloride		9.362	0.1	5	4.067	0	106	80	120	9.266	1.03	20	
Nitrogen, Nitrite (As N)		0.995	0.1	1	0	0	99.5	80	120	0.984	1.11	20	
Bromide		2.814	0.5	2.5	0	0	113	80	120	2.787	0.964	20	
Nitrogen, Nitrate (As N)		2.681	0.1	2.5	0	0	107	80	120	2.649	1.20	20	
Phosphorus, Orthophosphate (As P)		5.469	0.5	5	0	0	109	80	120	5.357	2.07	20	

Sample ID	0504130-01a ms	Batch ID:	R15110	Test Code:	SW8015	Units:	mg/L	Analysis Date	4/16/2005 12:42:03 AM	SeqNo:	352685	Prep Date	
Client ID:	Upstream River	Run ID:	PIDFID_050415A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result											
Gasoline Range Organics (GRO)		0.498	0.05	0.5	0.0118	0	97.2	82.6	114	0			
Surr: BFB		22.99	0	25	0	0	92.0	78.3	120	0			

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

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0504130
Project: River Sampling 2nd Qtr-2005

Sample ID	0504130-01a msd	Batch ID:	R15110	Test Code:	SW8015	Units:	mg/L	Analysis Date	4/16/2005 1:12:15 AM	Prep Date	
Client ID:	Upstream River	Run ID:	PIDFID_050415A	SeqNo:	352689						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.456	0.05	0.5	0.0118	88.8	82.6	114	0.498	8.81	15	
Surr: BFB	20.99	0	25	0	84.0	78.3	120	22.99	9.10	0	

Sample ID	0504130-04a ms	Batch ID:	R15110	Test Code:	SW8021	Units:	µg/L	Analysis Date	4/16/2005 1:42:35 AM	Prep Date	
Client ID:	Downstream Rive	Run ID:	PIDFID_050415A	SeqNo:	352677						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	39.75	2.5	40	0	99.4	64.5	133	0			
Benzene	19.84	0.5	20	0	99.2	88.7	114	0			
Toluene	20.08	0.5	20	0	100	89.3	112	0			
Ethylbenzene	20.43	0.5	20	0	102	88.6	113	0			
Xylenes, Total	61.06	0.5	60	0	102	89.4	112	0			

Sample ID	0504130-04a msd	Batch ID:	R15110	Test Code:	SW8021	Units:	µg/L	Analysis Date	4/16/2005 2:12:47 AM	Prep Date	
Client ID:	Downstream Rive	Run ID:	PIDFID_050415A	SeqNo:	352678						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	40.55	2.5	40	0	101	64.5	133	39.75	2.00	28	
Benzene	20.87	0.5	20	0	104	88.7	114	19.84	5.06	27	
Toluene	20.58	0.5	20	0	103	89.3	112	20.08	2.44	19	
Ethylbenzene	21.8	0.5	20	0	109	88.6	113	20.43	6.50	10	
Xylenes, Total	61.26	0.5	60	0	102	89.4	112	61.06	0.331	13	

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

QC SUMMARY REPORT

Sample Matrix Spike

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID 0504130-04D MS Batch ID: 7825 Test Code: SW6010A Units: mg/L Analysis Date 4/26/2005 9:44:57 AM Prep Date 4/22/2005
 Client ID: Downstream Rive Run ID: ICP_050426A SeqNo: 355701

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4958	0.02	0.5	0	99.2	75	125	0			
Cadmium	0.4731	0.002	0.5	0	94.6	75	125	0			
Chromium	0.4828	0.006	0.5	0	96.6	75	125	0			
Lead	0.4615	0.005	0.5	0.00231	91.8	75	125	0			
Selenium	0.4515	0.05	0.5	0	90.3	75	125	0			
Silver	0.474	0.005	0.5	0	94.8	75	125	0			

Sample ID 0504130-04D MSD Batch ID: 7825 Test Code: SW6010A Units: mg/L Analysis Date 4/26/2005 9:47:48 AM Prep Date 4/22/2005
 Client ID: Downstream Rive Run ID: ICP_050426A SeqNo: 355702

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.498	0.02	0.5	0	99.6	75	125	0.4958	0.433	20	
Cadmium	0.4843	0.002	0.5	0	96.9	75	125	0.4731	2.34	20	
Chromium	0.492	0.006	0.5	0	98.4	75	125	0.4828	1.88	20	
Lead	0.4694	0.005	0.5	0.00231	93.4	75	125	0.4615	1.71	20	
Selenium	0.4598	0.05	0.5	0	92.0	75	125	0.4515	1.83	20	
Silver	0.4826	0.005	0.5	0	96.5	75	125	0.474	1.80	20	

Sample ID 0504130-04D MS Batch ID: 7865 Test Code: SW6010A Units: mg/L Analysis Date 4/28/2005 9:23:20 AM Prep Date 4/27/2005
 Client ID: Downstream Rive Run ID: ICP_050428A SeqNo: 356585

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	0.5884	0.02	0.5	0.1158	94.5	75	125	0			

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

QC SUMMARY REPORT
 Sample Matrix Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID 0504130-04D MSD Batch ID: 7865 Test Code: SW6010A Units: mg/L Analysis Date 4/28/2005 9:24:35 AM Prep Date 4/27/2005
 Client ID: Downstream Rive Run ID: ICP_050428A SeqNo: 356586
 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
 Barium 0.6156 0.02 0.5 0.1158 100 75 125 0.5884 4.52 20

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

Hall Environmental Analysis Laboratory

Date: 29-Apr-05

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID	LCS	Batch ID: R15102	Test Code: E300	Units: mg/L	Analysis Date 4/14/2005	Prep Date					
Client ID:		Run ID: LC_050414A	SeqNo: 352293								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.499	0.1	0.5	0	99.8	90	110	0			
Chloride	4.719	0.1	5	0	94.4	90	110	0			
Nitrogen, Nitrite (As N)	0.923	0.1	1	0	92.3	90	110	0			
Bromide	2.553	0.5	2.5	0	102	90	110	0			
Nitrogen, Nitrate (As N)	2.409	0.1	2.5	0	96.4	90	110	0			
Phosphorus, Orthophosphate (As P)	4.829	0.5	5	0	96.6	90	110	0			
Sulfate	9.615	0.5	10	0	96.2	90	110	0			

Sample ID	LCS	Batch ID: R15214	Test Code: E300	Units: mg/L	Analysis Date 4/26/2005	Prep Date					
Client ID:		Run ID: LC_050426A	SeqNo: 355854								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.534	0.1	0.5	0	107	90	110	0			
Chloride	4.683	0.1	5	0	93.7	90	110	0			
Nitrogen, Nitrite (As N)	0.91	0.1	1	0	91.0	90	110	0			
Bromide	2.535	0.5	2.5	0	101	90	110	0			
Nitrogen, Nitrate (As N)	2.416	0.1	2.5	0	96.6	90	110	0			
Phosphorus, Orthophosphate (As P)	4.834	0.5	5	0	96.7	90	110	0			
Sulfate	9.546	0.5	10	0	95.5	90	110	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID	LCS	Batch ID: R15214	Test Code: E300	Units: mg/L	Analysis Date 4/27/2005	Prep Date					
Client ID:		Run ID: LC_050426A			SeqNo: 355955						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.491	0.1	0.5	0	98.2	90	110	0			
Chloride	4.492	0.1	5	0	89.8	90	110	0			S
Nitrogen, Nitrite (As N)	0.881	0.1	1	0	88.1	90	110	0			S
Bromide	2.406	0.5	2.5	0	96.2	90	110	0			
Nitrogen, Nitrate (As N)	2.278	0.1	2.5	0	91.1	90	110	0			
Phosphorus, Orthophosphate (As P)	4.563	0.5	5	0	91.7	90	110	0			
Sulfate	9.302	0.5	10	0.227	90.8	90	110	0			

Sample ID	LCS-7810	Batch ID: 7810	Test Code: SW8015	Units: mg/L	Analysis Date 4/22/2005 9:55:12 AM	Prep Date 4/20/2005					
Client ID:		Run ID: FID(17A) 2_050421A			SeqNo: 354680						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.754	1	5	0	115	81.2	149	0			

Sample ID	LCSD-7810	Batch ID: 7810	Test Code: SW8015	Units: mg/L	Analysis Date 4/22/2005 10:25:09 AM	Prep Date 4/20/2005					
Client ID:		Run ID: FID(17A) 2_050421A			SeqNo: 354681						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.007	1	5	0	120	81.2	149	5.754	4.30	23	

Sample ID	GRO lcs 2.5ug	Batch ID: R15110	Test Code: SW8015	Units: mg/L	Analysis Date 4/15/2005 9:09:14 PM	Prep Date					
Client ID:		Run ID: PIDFID_050415A			SeqNo: 352655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4814	0.05	0.5	0	96.3	82.6	114	0			

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0504130
Project: River Sampling 2nd Qtr-2005

Sample ID	BTEX Ics 100ng	Batch ID: R15110	Test Code: SW8021	Units: µg/L	Analysis Date	Prep Date
Client ID:	Run ID: PIDFID_050415A	PQL	SPK value	SPK Ref Val	SeqNo: 352679	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Methyl tert-butyl ether (MTBE)	35.68	89.2	64.5	133	0	
Benzene	19.05	95.2	88.7	114	0	
Toluene	19.25	96.3	89.3	112	0	
Ethylbenzene	19.66	98.3	88.6	113	0	
Xylenes, Total	57.34	95.6	89.4	112	0	

Sample ID	LCS-7812	Batch ID: 7812	Test Code: SW8270C	Units: µg/L	Analysis Date	Prep Date
Client ID:	Run ID: ELMO_050422A	PQL	SPK value	SPK Ref Val	SeqNo: 355212	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Acenaphthene	68.98	69.0	11	123	0	
4-Chloro-3-methylphenol	144.2	72.1	15.4	119	0	
2-Chlorophenol	145.8	72.9	12.2	122	0	
1,4-Dichlorobenzene	70.22	70.2	16.9	100	0	
2,4-Dinitrotoluene	75.5	75.5	13	138	0	
N-Nitrosodi-n-propylamine	67.58	67.6	9.93	122	0	
4-Nitrophenol	75.86	37.9	-20.5	87.4	0	
Pentachlorophenol	139	69.5	-0.355	114	0	
Phenol	79.34	39.7	7.53	73.1	0	
Pyrene	72.04	72.0	12.6	140	0	
1,2,4-Trichlorobenzene	68.82	68.8	17.4	98.7	0	

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

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0504130
Project: River Sampling 2nd Qtr-2005

Sample ID	LCSD-7812	Batch ID:	7812	Test Code:	SW8270C	Units:	µg/L	Analysis Date	4/23/2005	Prep Date	4/20/2005
Client ID:	ELMO_050423A	Run ID:	355276	SeqNo:	355276						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	59.66	10	100	0	59.7	11	123	68.98	14.5	30.5	
4-Chloro-3-methylphenol	129.9	20	200	0	64.9	15.4	119	144.2	10.5	28.6	
2-Chlorophenol	123.7	10	200	0	61.9	12.2	122	145.8	16.4	107	
1,4-Dichlorobenzene	56.28	10	100	0	56.3	16.9	100	70.22	22.0	62.1	
2,4-Dinitrotoluene	67	10	100	0	67.0	13	138	75.5	11.9	14.7	
N-Nitrosodi-n-propylamine	62.46	10	100	0	62.5	9.93	122	67.58	7.87	30.3	J
4-Nitrophenol	49.62	50	200	0	24.8	12.5	87.4	75.86	0	36.3	
Pentachlorophenol	97.24	50	200	0	48.6	3.55	114	139	35.3	49	
Phenol	65.18	10	200	0	32.6	7.53	73.1	79.34	19.6	52.4	
Pyrene	70.34	15	100	0	70.3	12.6	140	72.04	2.39	16.3	
1,2,4-Trichlorobenzene	57.62	10	100	0	57.6	17.4	98.7	68.82	17.7	36.4	

Sample ID	LCS-7857	Batch ID:	7857	Test Code:	SW7470	Units:	mg/L	Analysis Date	4/26/2005	Prep Date	4/26/2005
Client ID:	MI-LA254_050426A	Run ID:	355762	SeqNo:	355762						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004953	0.0002	0.005	0	99.1	75.2	134	0			

Sample ID	LCSD-7857	Batch ID:	7857	Test Code:	SW7470	Units:	mg/L	Analysis Date	4/26/2005	Prep Date	4/26/2005
Client ID:	MI-LA254_050426A	Run ID:	355779	SeqNo:	355779						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005061	0.0002	0.005	0	101	75.2	134	0.004953	2.17	0	

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID LCS Batch ID: R15182 Test Code: SW6010A Units: mg/L Analysis Date 4/22/2005 10:11:58 AM Prep Date
 Client ID: Run ID: ICP_050422A SeqNo: 354760

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.506	0.02	0.5	0	101	80	120	0			
Barium	0.511	0.02	0.5	0	102	80	120	0			
Cadmium	0.5131	0.002	0.5	0	103	80	120	0			
Calcium	50.51	1	50.5	0	100	80	120	0			
Chromium	0.5118	0.006	0.5	0	102	80	120	0			
Copper	0.5	0.006	0.5	0	100	80	120	0			
Iron	0.5068	0.02	0.5	0	101	80	120	0			
Lead	0.5032	0.005	0.5	0	101	80	120	0			
Magnesium	49.93	1	50.5	0	98.9	80	120	0			
Manganese	0.5046	0.002	0.5	0.0001578	101	80	120	0			
Potassium	50.92	1	55	0	92.6	80	120	0			
Selenium	0.4986	0.02	0.5	0	99.7	80	120	0			
Sodium	51.81	1	50.5	0	103	80	120	0			
Uranium	2.518	0.1	5	0	50.4	80	120	0			S

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID	LCSD	Batch ID: R15182	Test Code: SW6010A	Units: mg/L	Analysis Date 4/22/2005 10:14:23 AM	Prep Date					
Client ID:		Run ID: ICP_050422A	SeqNo: 354761								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5144	0.02	0.5	0	103	80	120	0.506	1.66	20	
Barium	0.5124	0.02	0.5	0	102	80	120	0.511	0.283	20	
Cadmium	0.5149	0.002	0.5	0	103	80	120	0.5131	0.350	20	
Calcium	50.69	1	50.5	0	100	80	120	50.51	0.362	20	
Chromium	0.5129	0.006	0.5	0	103	80	120	0.5118	0.207	20	
Copper	0.5024	0.006	0.5	0	100	80	120	0.5	0.463	20	
Iron	0.5055	0.02	0.5	0	101	80	120	0.5068	0.254	20	
Lead	0.5075	0.005	0.5	0	101	80	120	0.5032	0.844	20	
Magnesium	50.39	1	50.5	0	99.8	80	120	49.93	0.923	20	
Manganese	0.505	0.002	0.5	0.0001578	101	80	120	0.5046	0.0772	20	
Potassium	51.54	1	55	0	93.7	80	120	50.92	1.23	20	
Selenium	0.5026	0.02	0.5	0	101	80	120	0.4986	0.794	20	
Sodium	52.45	1	50.5	0	104	80	120	51.81	1.23	20	
Uranium	2.49	0.1	5	0	49.8	80	120	2.518	1.14	20	S

Sample ID	LCS	Batch ID: R15194	Test Code: SW6010A	Units: mg/L	Analysis Date 4/22/2005 2:59:37 PM	Prep Date					
Client ID:		Run ID: ICP_050422C	SeqNo: 355317								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	55.92	1	55	0.3855	101	80	120	0			
Silver	0.4973	0.005	0.5	0	99.5	80	120	0			
Zinc	0.4829	0.05	0.5	0	96.6	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 6

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0504130
Project: River Sampling 2nd Qtr-2005

Sample ID	LCSD	Batch ID: R15194	Test Code: SW6010A	Units: mg/L	Analysis Date 4/22/2005 3:02:00 PM	Prep Date					
Client ID:		Run ID: ICP_050422C	SeqNo: 355318								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	55.6	1	55	0.3855	100	80	120	55.92	0.583	20	
Silver	0.4943	0.005	0.5	0	98.9	80	120	0.4973	0.609	20	
Zinc	0.4807	0.05	0.5	0	96.1	80	120	0.4829	0.446	20	

Sample ID	LCS-7825	Batch ID: 7825	Test Code: SW6010A	Units: mg/L	Analysis Date 4/26/2005 9:06:52 AM	Prep Date 4/22/2005					
Client ID:		Run ID: ICP_050426A	SeqNo: 355689								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4889	0.02	0.5	0	97.8	80	120	0			
Cadmium	0.482	0.002	0.5	0	96.4	80	120	0			
Chromium	0.4891	0.006	0.5	0	97.8	80	120	0			
Lead	0.4724	0.005	0.5	0	94.5	80	120	0			
Selenium	0.4623	0.05	0.5	0	92.5	80	120	0			
Silver	0.4809	0.005	0.5	0.001093	96.0	80	120	0			

Sample ID	LCSD-7825	Batch ID: 7825	Test Code: SW6010A	Units: mg/L	Analysis Date 4/26/2005 9:10:02 AM	Prep Date 4/22/2005					
Client ID:		Run ID: ICP_050426A	SeqNo: 355690								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4778	0.02	0.5	0	95.6	80	120	0.4889	2.29	20	
Cadmium	0.4757	0.002	0.5	0	95.1	80	120	0.482	1.31	20	
Chromium	0.4835	0.006	0.5	0	96.7	80	120	0.4891	1.15	20	
Lead	0.4685	0.005	0.5	0	93.7	80	120	0.4724	0.834	20	
Selenium	0.4579	0.05	0.5	0	91.6	80	120	0.4623	0.939	20	
Silver	0.4759	0.005	0.5	0.001093	95.0	80	120	0.4809	1.06	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
7

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0504130
 Project: River Sampling 2nd Qtr-2005

Sample ID LCS-7865 Batch ID: 7865 Test Code: SW6010A Units: mg/L Analysis Date 4/28/2005 9:06:41 AM Prep Date 4/27/2005
 Client ID: Run ID: ICP_050428A SeqNo: 356577

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: mg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	0.481	0.02	0.5	0		96.2	80	120	0			

Sample ID LCSD-7865 Batch ID: 7865 Test Code: SW6010A Units: mg/L Analysis Date 4/28/2005 9:08:57 AM Prep Date 4/27/2005
 Client ID: Run ID: ICP_050428A SeqNo: 356578

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: mg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	0.5018	0.02	0.5	0		100	80	120	0.481	4.24	20	

Sample ID LCS-7811 Batch ID: 7811 Test Code: E160.1 Units: mg/L Analysis Date 4/21/2005 Prep Date 4/20/2005
 Client ID: Run ID: WC_050421B SeqNo: 354284

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: mg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	50	1000	33		99.7	80	120	0			

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

4/14/2005

Work Order Number 0504130

Received by AT

Checklist completed by

[Signature]
Signature

4/14/05
Date

Matrix

Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? **1°** *4° C ± 2 Acceptable*
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: San Juan Refinery

Address: # 50 CR 4990
Bloomfield, NM
87413

Phone #: 505-632-4161
 Fax #: 505-632-3911

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
<u>4/13/05</u>	<u>8:30am</u>	<u>H₂O</u>	<u>Upstream River</u>	<u>2-VOA</u>	<u>X</u>	<u>X</u>	<u>15504130-1</u>
				<u>1-500 ml</u>	<u>X</u>	<u>X</u>	
				<u>1-125 ml</u>	<u>X</u>	<u>X</u>	
				<u>1-125 ml</u>			<u>H₂SO₄</u>
				<u>1-1000 ml</u>			
				<u>1-liter</u>			<u>Amber</u>

Date: 4/13/05 Time: 3PM
 Relinquished By: (Signature) Cindy Hurtado
 Date: 4/13/05 Time: 3PM
 Relinquished By: (Signature) Cindy Hurtado

Received By: (Signature) [Signature] 4/14/05
 Received By: (Signature) [Signature] 1303

GA/QC Package: Std Level 4

Other: _____

Project Name: River Sampling
2nd Qtr 2005

Project #: _____

Project Manager: _____
 Sample: Cindy Hurtado/Angela
 Sample Temperature: Folk

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	WQCC - Dissolved Met	NO ₃ Backup	Gen. Chem - Anion Cat	Air Bubbles or Headspace (Y or N)
<u>X</u>		<u>X</u>					<u>X</u>					<u>X</u>	<u>X</u>	<u>X</u>	

Remarks:

CHAIN-OF-CUSTODY RECORD

Client: San Juan Refinery

Address: #50 CR #4990
Bloomfield, NM
87413

Phone #: 505-632-4161
 Fax #: 505-632-3911

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
<u>4/13/05</u>	<u>10AM</u>	<u>H₂O</u>	<u>N. of MW #452</u>	<u>2-VOA</u>	<u>X</u>	<u>X</u>	<u>0504/30-2</u>
				<u>1-500ml</u>		<u>X</u>	
				<u>1-125ml</u>	<u>Y filtered</u>		
				<u>1-125ml</u>	<u>H₂SO₄</u>		
				<u>1-1000ml</u>			
				<u>1-1-liter</u>	<u>Amber</u>		

Date: 4/13/05 Time: 3PM
 Relinquished By: (Signature) Cindy Hurtado
 Date: _____ Time: _____
 Relinquished By: (Signature) _____

Received By: (Signature) _____
 Received By: (Signature) _____
1303

GA/QC Package: Std Level 4

Other: River Sampling
2nd Qtr 2005

Project #: _____
 Project Manager: _____

Sample: Cindy Hurtado / Angela
 Sample Temperature: 1° F/1k

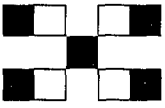
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 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com

ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline Only)	BTEX + MTBE + TPH (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F ⁻ , Cl ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	WDCG-dissolved meta	NO ₃ Backup	Ben Chom - Anion/Co
<u>X</u>	<u>X</u>					<u>X</u>					<u>X</u>	<u>X</u>	<u>X</u>

Remarks:

Air Bubbles or Headspace (Y or N)



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 Albuquerque, New Mexico 87109
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 www.hallenvironmental.com

CHAIN-OF-CUSTODY RECORD

Client: San Juan Refinery
 Other: GA/QC Package: Std Level 4
 Project Name: River Sampling
2nd Qtr 2005
 Project #: _____
 Project Manager: _____
 Sampler: Cindy Hurtado / Angela Folk
 Sample Temperature: _____

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
<u>4/13/05</u>	<u>11:44</u>	<u>H₂O</u>	<u>N. of MW #40</u>	<u>2-VOA</u>	<u>X</u>	<u>X</u>	<u>6504130-3</u>
				<u>2-VOA</u>	<u>X</u>		
				<u>1-500ml</u>		<u>X</u>	
				<u>1-125 ml</u>	<u>X</u>	<u>Filtered</u>	
				<u>1-125 ml</u>		<u>H₂O₂</u>	
				<u>1-1000 ml</u>			
				<u>1-liter</u>		<u>Amber</u>	

Date: 4/13/05 Time: 3pm
 Relinquished By: (Signature) Cindy Hurtado
 Date: _____ Time: _____
 Relinquished By: (Signature) _____
 Received By: (Signature) _____
 Received By: (Signature) _____
 1303

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F ⁻ , Cl ⁻ , NO ₂ ⁻ , NO ₃ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	WDC - dissolved metals	ND ₃ Backup	Gen Chem - Arion/Car
		<u>X</u>					<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

Remarks:

CHAIN-OF-CUSTODY RECORD

Client: San Juan Refinery

Address: #50 CR 499D

Bloomfield, NM

87413

Phone #: 505-632-4161

Fax #: 505-632-3911

Date

Time

Matrix

Sample I.D. No.

4/13/05 9:30am H2O Downstream River

2-VOA
1-500 ml
1-125 ml
1-125 ml
1-1000 ml
1-1 liter

Number/Volume

Preservative

HgCl₂

HNO₃

HEAL No.

5504130-4

X

X

X

X Filtered

H2SO4

Amber

Date:

Time:

Relinquished By: (Signature)

Time:

Received By: (Signature)

Time:

4/13/05

3pm

Cindy Hurtado

4/14/05

Cindy Hurtado

1303

QA/QC Package:

Std Level 4

Other:

River Sampling
2nd Apr 2005

Project #:

Project Manager:

Cindy Hurtado/Angela
Folk

Sampler:

Sample temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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Albuquerque, New Mexico 87109
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www.hallenvironmental.com

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	PCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	WAC-dissolved meta	NO ₃ Backtit	Gun Chem - Anion/Kas	Air Bubbles or Headspace (Y or N)
X	X	X					X					X	X	X	

Remarks:

Hall Environmental Analysis Laboratory

Date: 14-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504040
 Project: Chad's Recovered Water
 Lab ID: 0504040-05

Client Sample ID: TK #33
 Collection Date: 4/4/2005 10:45:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 413.2: OIL AND GREASE						Analyst: JT
Oil & Grease, Total Recoverable	7.8	1.0		mg/L	1	4/11/2005
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	8.4	0.50		µg/L	1	4/6/2005 12:17:39 AM
Toluene	ND	0.50		µg/L	1	4/6/2005 12:17:39 AM
Ethylbenzene	1.7	0.50		µg/L	1	4/6/2005 12:17:39 AM
Xylenes, Total	1.5	0.50		µg/L	1	4/6/2005 12:17:39 AM
Surr: 4-Bromofluorobenzene	116	83.3-121		%REC	1	4/6/2005 12:17:39 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 14-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0504040
 Project: Chad's Recovered Water
 Lab ID: 0504040-06

Client Sample ID: Fresh Water Pond
 Collection Date: 4/4/2005 10:55:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	4/6/2005 12:47:32 AM
Toluene	ND	0.50		µg/L	1	4/6/2005 12:47:32 AM
Ethylbenzene	ND	0.50		µg/L	1	4/6/2005 12:47:32 AM
Xylenes, Total	ND	0.50		µg/L	1	4/6/2005 12:47:32 AM
Surr: 4-Bromofluorobenzene	108	83.3-121		%REC	1	4/6/2005 12:47:32 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 14-Apr-05

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0504040
 Project: Chad's Recovered Water

Sample ID MB-7735 Batch ID: 7735 Test Code: E413.2 Units: mg/L Prep Date 4/8/2005
 Client ID: Run ID: BUCK_IR_050411A SeqNo: 351315
 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
 Oil & Grease, Total Recoverable ND 1

Sample ID Reagent Blank 5m Batch ID: R15012 Test Code: SW8021 Units: µg/L Prep Date
 Client ID: Run ID: PIDFID_050405A SeqNo: 349429

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	20.47	0	20	0	102	83.3	121	0			

Sample ID Reagent Blank 5m Batch ID: R15012 Test Code: SW8021 Units: µg/L Prep Date
 Client ID: Run ID: PIDFID_050405A SeqNo: 349450

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	20.51	0	20	0	103	83.3	121	0			

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

Hall Environmental Analysis Laboratory

Date: 14-Apr-05

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0504040
 Project: Chad's Recovered Water

Sample ID	LCSD-7735	Batch ID:	7735	Test Code:	E413.2	Units:	mg/L	Analysis Date	4/11/2005	Prep Date	4/8/2005
Client ID:		Run ID:	BUCK IR_050411A <th>SeqNo:</th> <td>351326</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	351326						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	5.7	1	5	0	114	76.7	111	0			S

Sample ID	LCSD-7735	Batch ID:	7735	Test Code:	E413.2	Units:	mg/L	Analysis Date	4/11/2005	Prep Date	4/8/2005
Client ID:		Run ID:	BUCK IR_050411A	SeqNo:	351326						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	5.56	1	5	0	111	76.7	111	5.7	2.49	20	S

Sample ID	BTEX Ics 100ng	Batch ID:	R15012	Test Code:	SW8021	Units:	µg/L	Analysis Date	4/5/2005 8:47:35 PM	Prep Date	
Client ID:		Run ID:	PIDFID_050405A	SeqNo:	349430						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.16	0.5	20	0	101	88.7	114	0			
Toluene	20.23	0.5	20	0	101	89.3	112	0			
Ethylbenzene	20.77	0.5	20	0	104	88.6	113	0			
Xylenes, Total	60.03	0.5	60	0	100	89.4	112	0			

Sample ID	BTEX Ics II 100ng	Batch ID:	R15012	Test Code:	SW8021	Units:	µg/L	Analysis Date	4/5/2005 9:17:39 PM	Prep Date	
Client ID:		Run ID:	PIDFID_050405A	SeqNo:	349451						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.95	0.5	20	0	99.8	88.7	114	0			
Toluene	20.03	0.5	20	0	100	89.3	112	0			
Ethylbenzene	20.84	0.5	20	0	104	88.6	113	0			
Xylenes, Total	60.2	0.5	60	0	100	89.4	112	0			

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

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0504040
Project: Chad's Recovered Water

Sample ID: BTEX IcsdIII 100n **Batch ID:** R15012 **Test Code:** SW8021 **Units:** µg/L **Analysis Date:** 4/5/2005 9:47:43 PM **Prep Date:**
Client ID: PIDFID_050405A **Run ID:** **SeqNo:** 349452

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.39	0.5	20	0	97.0	88.7	114	19.95	2.85	27	
Toluene	19.49	0.5	20	0	97.5	89.3	112	20.03	2.69	19	
Ethylbenzene	20.05	0.5	20	0	100	88.6	113	20.84	3.87	10	
Xylenes, Total	59.21	0.5	60	0	98.7	89.4	112	60.2	1.66	13	

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

4/5/2005

Work Order Number 0504040

Received by AT

Checklist completed by

[Handwritten Signature]
Signature

4/5/05
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 Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? 2° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: San Juan Refining

Address: #50 Rd 4990

Bloomfield NM 87413

Phone #: 505-632-4161

Fax #: 505-632-3911

QA/QC Package:

Std Level 4

Other:

Project Name:

Chad's Recovered Water

Project #:

Project Manager:

Sampler:

Lindy Hurtado / Angela folk

Sample Temperature:

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
4/04/05	945A	H ₂ O	MW #49	1-500ml			HCL 05040402
	945A		MW #48	1-500ml			-3
	1025A		TK #37	1-500ml			-4
	1		TK #37	2-10A			-4
	1045A		TK #33	1-500ml			-5
	1		TK #33	2-10A			-5
	1055		Fresh Water Pond	2-10A			-6

Date: 4/01/05

Time: 3pm

Relinquished By: (Signature)

Lindy Hurtado

Relinquished By: (Signature)

Lindy Hurtado

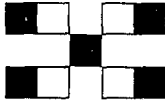
Received By: (Signature)

[Signature] 4/5/05

Received By: (Signature)

1007

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 4901 Hawkins NE, Suite D
 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com



ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline Only)	BTEX + MTBE + TPH (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles or Headspace (Y or N)
X										0.1% Gas	
X											
X											

Remarks:

GIANT

REFINING COMPANY

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

RECEIVED

APR 18 2005

OIL CONSERVATION
DIVISION

Certified Mail: 7099 3220 001 2242 4764

April 11, 2005

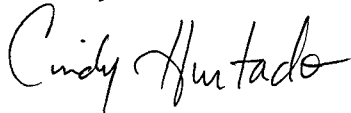
RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001

Dear Mr. Price,

Please find attached analytical results for the March 18, 2005 sampling event for wells MW #48 and MW #49 on the river terrace at the Giant Refining facility. Note that the results for well MW #49, located down-gradient of the barrier wall, had a detection of benzene at a concentration of 24 ug/L. We will continue to monitor both wells on a monthly basis and evaluate the concentration trends.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,



Cindy Hurtado
Environmental Assistant
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

PHONE
505-632-8013
FAX
505-632-3911

50 ROAD 4990
P.O. BOX 159
BLOOMFIELD
NEW MEXICO
87413

COVER LETTER

April 04, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Terrace MW #48/MW #49-3/05

Order No.: 0503182

Dear Cindy Hurtado:

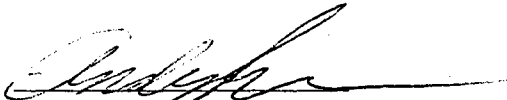
Hall Environmental Analysis Laboratory received 2 samples on 3/18/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 04-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0503182
 Project: River Terrace MW #48/MW #49-3/05
 Lab ID: 0503182-01

Client Sample ID: MW #49
 Collection Date: 3/16/2005 2:25:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/23/2005 1:47:48 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/23/2005 1:47:48 PM
Surr: DNOP	122	58-140		%REC	1	3/23/2005 1:47:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.36	0.050		mg/L	1	3/23/2005 11:13:00 PM
Surr: BFB	105	78.3-120		%REC	1	3/23/2005 11:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/23/2005 11:13:00 PM
Benzene	24	0.50		µg/L	1	3/23/2005 11:13:00 PM
Toluene	0.50	0.50		µg/L	1	3/23/2005 11:13:00 PM
Ethylbenzene	9.4	0.50		µg/L	1	3/23/2005 11:13:00 PM
Xylenes, Total	16	0.50		µg/L	1	3/23/2005 11:13:00 PM
Surr: 4-Bromofluorobenzene	110	83.3-121		%REC	1	3/23/2005 11:13:00 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	ND	2.5		µg/L	1	3/29/2005 2:20:26 AM
1-Methylnaphthalene	ND	2.5		µg/L	1	3/29/2005 2:20:26 AM
2-Methylnaphthalene	ND	2.5		µg/L	1	3/29/2005 2:20:26 AM
Acenaphthylene	ND	2.5		µg/L	1	3/29/2005 2:20:26 AM
Acenaphthene	ND	2.5		µg/L	1	3/29/2005 2:20:26 AM
Fluorene	ND	0.80		µg/L	1	3/29/2005 2:20:26 AM
Phenanthrene	ND	0.60		µg/L	1	3/29/2005 2:20:26 AM
Anthracene	ND	0.60		µg/L	1	3/29/2005 2:20:26 AM
Fluoranthene	ND	0.30		µg/L	1	3/29/2005 2:20:26 AM
Pyrene	ND	0.30		µg/L	1	3/29/2005 2:20:26 AM
Benz(a)anthracene	ND	0.020		µg/L	1	3/29/2005 2:20:26 AM
Chrysene	ND	0.20		µg/L	1	3/29/2005 2:20:26 AM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	3/29/2005 2:20:26 AM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	3/29/2005 2:20:26 AM
Benzo(a)pyrene	ND	0.020		µg/L	1	3/29/2005 2:20:26 AM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	3/29/2005 2:20:26 AM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	3/29/2005 2:20:26 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	3/29/2005 2:20:26 AM
Surr: Benzo(e)pyrene	78.4	54-102		%REC	1	3/29/2005 2:20:26 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0503182
 Project: River Terrace MW #48/MW #49-3/05
 Lab ID: 0503182-02

Client Sample ID: MW #48
 Collection Date: 3/16/2005 3:10:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/23/2005 2:47:31 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/23/2005 2:47:31 PM
Surr: DNOP	113	58-140		%REC	1	3/23/2005 2:47:31 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	29	2.5		mg/L	50	3/24/2005 11:32:03 AM
Surr: BFB	107	78.3-120		%REC	50	3/24/2005 11:32:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/24/2005 11:32:03 AM
Benzene	630	25		µg/L	50	3/24/2005 11:32:03 AM
Toluene	ND	25		µg/L	50	3/24/2005 11:32:03 AM
Ethylbenzene	2100	25		µg/L	50	3/24/2005 11:32:03 AM
Xylenes, Total	10000	25		µg/L	50	3/24/2005 11:32:03 AM
Surr: 4-Bromofluorobenzene	104	83.3-121		%REC	50	3/24/2005 11:32:03 AM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	260	13		µg/L	5	3/30/2005 3:02:45 PM
1-Methylnaphthalene	79	2.5		µg/L	1	3/27/2005 9:45:16 PM
2-Methylnaphthalene	110	2.5		µg/L	1	3/27/2005 9:45:16 PM
Acenaphthylene	ND	2.5		µg/L	1	3/27/2005 9:45:16 PM
Acenaphthene	ND	2.5		µg/L	1	3/27/2005 9:45:16 PM
Fluorene	1.4	0.80		µg/L	1	3/27/2005 9:45:16 PM
Phenanthrene	1.4	0.60		µg/L	1	3/27/2005 9:45:16 PM
Anthracene	ND	0.60		µg/L	1	3/27/2005 9:45:16 PM
Fluoranthene	ND	0.30		µg/L	1	3/27/2005 9:45:16 PM
Pyrene	ND	0.30		µg/L	1	3/27/2005 9:45:16 PM
Benz(a)anthracene	ND	0.020		µg/L	1	3/27/2005 9:45:16 PM
Chrysene	ND	0.20		µg/L	1	3/27/2005 9:45:16 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	3/27/2005 9:45:16 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	3/27/2005 9:45:16 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	3/27/2005 9:45:16 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	3/27/2005 9:45:16 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	3/27/2005 9:45:16 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	3/27/2005 9:45:16 PM
Surr: Benzo(e)pyrene	77.1	54-102		%REC	1	3/27/2005 9:45:16 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 04-Apr-05

CLIENT: San Juan Refining

Work Order: 0503182

Project: River Terrace MW #48/MW #49-3/05

QC SUMMARY REPORT

Method Blank

Sample ID	MB-7623	Batch ID:	7623	Test Code:	SW8015	Units:	mg/L	Analysis Date	3/23/2005 12:18:04 PM	Prep Date	3/23/2005
Client ID:		Run ID:	FID(17A)_2_050323B <th>SeqNo:</th> <td>346608</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	346608						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.163	0	1	0	116	58	140	0			

Sample ID	Reagent Blank 5m	Batch ID:	R14909	Test Code:	SW8015	Units:	mg/L	Analysis Date	3/23/2005 7:11:03 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050323A <th>SeqNo:</th> <td>346731</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	346731						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	21.28	0	20	0	106	78.3	120	0			

Sample ID	Reagent Blank 5m	Batch ID:	R14918	Test Code:	SW8015	Units:	mg/L	Analysis Date	3/24/2005 8:57:13 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050324A <th>SeqNo:</th> <td>346990</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SeqNo:	346990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	19.95	0	20	0	99.7	78.3	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
Work Order: 0503182
Project: River Terrace MW #48/MW #49-3/05

Sample ID	Reagent Blank 5m	Batch ID: R14909	Test Code: SW8021	Units: µg/L	Analysis Date 3/23/2005 7:11:03 AM	Prep Date					
Client ID:	Run ID:	PIDFID_050323A	SeqNo:	346730							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	21.85	0	20	0	109	83.3	121	0			

Sample ID	Reagent Blank 5m	Batch ID: R14918	Test Code: SW8021	Units: µg/L	Analysis Date 3/24/2005 8:57:13 AM	Prep Date					
Client ID:	Run ID:	PIDFID_050324A	SeqNo:	346989							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	19.66	0	20	0	98.3	83.3	121	0			

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

QC SUMMARY REPORT

Method Blank

CLIENT: San Juan Refining
 Work Order: 0503182
 Project: River Terrace MW #48/MW #49-3/05

Sample ID MB-7619 Batch ID: 7619 Test Code: SW8310 Units: µg/L Analysis Date 3/28/2005 11:56:25 PM Prep Date 3/22/2005
 Client ID: HUGO_050326A Run ID: 347579 SeqNo:

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.8									
Phenanthrene	ND	0.6									
Anthracene	ND	0.6									
Fluoranthene	ND	0.3									
Pyrene	ND	0.3									
Benz(a)anthracene	ND	0.02									
Chrysene	ND	0.2									
Benzo(b)fluoranthene	ND	0.05									
Benzo(k)fluoranthene	ND	0.02									
Benzo(a)pyrene	ND	0.02									
Dibenz(a,h)anthracene	ND	0.04									
Benzo(g,h,i)perylene	ND	0.03									
Indeno(1,2,3-cd)pyrene	ND	0.08									
Surr: Benzo(e)pyrene	7.72	0	10	0	77.2	54	102	0			

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

Hall Environmental Analysis Laboratory

Date: 04-Apr-05

CLIENT: San Juan Refining
 Work Order: 0503182
 Project: River Terrace MW #48/MW #49-3/05

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID	LCS-7623	Batch ID:	7623	Test Code:	SW8015	Units:	mg/L	Analysis Date	3/23/2005 12:48:02 PM	Prep Date	3/23/2005
Client ID:		Run ID:	FID(17A) 2_050323B					SeqNo:	346648		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Diesel Range Organics (DRO)		5.441	1	5	0	109	81.2	149	0		

Sample ID	LCS-7623	Batch ID:	7623	Test Code:	SW8015	Units:	mg/L	Analysis Date	3/23/2005 1:17:57 PM	Prep Date	3/23/2005
Client ID:		Run ID:	FID(17A) 2_050323B					SeqNo:	346649		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Diesel Range Organics (DRO)		6.085	1	5	0	122	81.2	149	5.441	11.2	23

Sample ID	GRO lcs 2.5ug	Batch ID:	R14909	Test Code:	SW8015	Units:	mg/L	Analysis Date	3/24/2005 12:12:51 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050323A					SeqNo:	346825		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Gasoline Range Organics (GRO)		0.4414	0.05	0.5	0	88.3	82.6	114	0		

Sample ID	GRO lcsd 2.5ug	Batch ID:	R14909	Test Code:	SW8015	Units:	mg/L	Analysis Date	3/24/2005 12:42:46 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050323A					SeqNo:	346826		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Gasoline Range Organics (GRO)		0.504	0.05	0.5	0	101	82.6	114	0.4414	13.2	15

Sample ID	GRO lcs 2.5ug	Batch ID:	R14918	Test Code:	SW8015	Units:	mg/L	Analysis Date	3/24/2005 7:04:40 PM	Prep Date	
Client ID:		Run ID:	PIDFID_050324A					SeqNo:	346994		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Gasoline Range Organics (GRO)		0.5548	0.05	0.5	0	111	82.6	114	0		

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

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
Work Order: 0503182
Project: River Terrace MW #48/MW #49-3/05

Sample ID GRO lcsd 2.5ug **Batch ID:** R14918 **Test Code:** SW8015 **Units:** mg/L **Analysis Date** 3/24/2005 8:04:36 PM **Prep Date**
Client ID: **Run ID:** PIDFID_050324A **SeqNo:** 346995

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.5332	0.05	0.5	0	107	82.6	114	0.5548	3.97	8.39	

Sample ID BTEX lcs 100ng **Batch ID:** R14909 **Test Code:** SW8021 **Units:** µg/L **Analysis Date** 3/24/2005 1:42:28 AM **Prep Date**
Client ID: **Run ID:** PIDFID_050323A **SeqNo:** 346820

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	43.82	2.5	40	0	110	64.5	133	0			
Benzene	19.78	0.5	20	0	98.9	88.7	114	0			
Toluene	20.07	0.5	20	0	100	89.3	112	0			
Ethylbenzene	20.75	0.5	20	0	104	88.6	113	0			
Xylenes, Total	59.31	0.5	60	0	98.8	89.4	112	0			

Sample ID BTEX lcsd 100ng **Batch ID:** R14909 **Test Code:** SW8021 **Units:** µg/L **Analysis Date** 3/24/2005 2:12:16 AM **Prep Date**
Client ID: **Run ID:** PIDFID_050323A **SeqNo:** 346822

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	42.05	2.5	40	0	105	64.5	133	43.82	4.12	28	
Benzene	19.67	0.5	20	0	98.3	88.7	114	19.78	0.594	27	
Toluene	19.8	0.5	20	0	99.0	89.3	112	20.07	1.36	19	
Ethylbenzene	20.66	0.5	20	0	103	88.6	113	20.75	0.418	10	
Xylenes, Total	58.74	0.5	60	0	97.9	89.4	112	59.31	0.963	13	

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: San Juan Refining
 Work Order: 0503182
 Project: River Terrace MW #48/MW #49-3/05

Sample ID	BTEX ccv 100ng	Batch ID: R14918	Test Code: SW8021	Units: µg/L	Analysis Date 3/24/2005 8:34:35 PM	Prep Date					
Client ID:	Run ID: PIDFID_050324A	SeqNo: 347017									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	45.63	2.5	40	0	114	64.5	133	0			
Benzene	19.86	0.5	20	0	99.3	88.7	114	0			
Toluene	20.62	0.5	20	0	103	89.3	112	0			
Ethylbenzene	21.13	0.5	20	0	106	88.6	113	0			
Xylenes, Total	61.93	0.5	60	0	103	89.4	112	0			

Sample ID	LCS-7619	Batch ID: 7619	Test Code: SW8310	Units: µg/L	Analysis Date 3/30/2005 12:38:45 PM	Prep Date 3/22/2005					
Client ID:	Run ID: HUGO_050329A	SeqNo: 348196									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	23	2.5	40	0	57.5	20.939	111.211	0			
1-Methylnaphthalene	23.43	2.5	40.1	0	58.4	22.016	110.385	0			
2-Methylnaphthalene	23.35	2.5	40	0	58.4	21.098	111.261	0			
Acenaphthylene	27.9	2.5	40.1	0	69.6	23.852	116.857	0			
Acenaphthene	26.72	2.5	40	0	66.8	27.524	111.73	0			
Fluorene	2.91	0.8	4.01	0	72.6	31.046	113.32	0			
Phenanthrene	1.41	0.6	2.01	0	70.1	42.279	115.749	0			
Anthracene	1.53	0.6	2.01	0	76.1	43.767	118.693	0			
Fluoranthene	2.96	0.3	4.01	0	73.8	55.334	117.461	0			
Pyrene	2.88	0.3	4.01	0	71.8	57.722	120.832	0			
Benz(a)anthracene	0.31	0.02	0.401	0	77.3	70.18	113.452	0			
Chrysene	1.4	0.2	2.01	0	69.7	43.942	141.404	0			
Benzo(b)fluoranthene	0.36	0.05	0.501	0	71.9	71.192	103.368	0			
Benzo(k)fluoranthene	0.19	0.02	0.25	0	76.0	75.336	107.209	0			
Benzo(a)pyrene	0.191	0.02	0.251	0	76.1	74.556	100.742	0			
Dibenz(a,h)anthracene	0.404	0.04	0.501	0	80.6	80.693	106.931	0			S
Benzo(g,h,i)perylene	0.35	0.03	0.5	0	70.0	55.168	135.014	0			
Indeno(1,2,3-cd)pyrene	0.799	0.08	1.002	0	79.7	79.328	104.794	0			

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

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0503182
 Project: River Terrace MW #48/MW #49-3/05

Sample ID LCSD-7619 Batch ID: 7619 Test Code: SW8310 Units: µg/L Analysis Date 3/30/2005 1:26:44 PM Prep Date 3/22/2005

Client ID: Run ID: HUGO_050329A SeqNo: 348197

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	24.71	2.5	40	0	61.8	20.939	111.211	23	7.17	32.1	
1-Methylnaphthalene	24.94	2.5	40.1	0	62.2	22.016	110.385	23.43	6.24	32.7	
2-Methylnaphthalene	24.63	2.5	40	0	61.6	21.098	111.261	23.35	5.34	34	
Acenaphthylene	28.36	2.5	40.1	0	70.7	23.852	116.857	27.9	1.64	38.8	
Acenaphthene	27.04	2.5	40	0	67.6	27.524	111.73	26.72	1.19	38.6	
Fluorene	2.87	0.8	4.01	0	71.6	31.046	113.32	2.91	1.38	39.3	
Phenanthrene	1.45	0.6	2.01	0	72.1	42.279	115.749	1.41	2.80	25	
Anthracene	1.51	0.6	2.01	0	75.1	43.767	118.693	1.53	1.32	23.9	
Fluoranthene	2.99	0.3	4.01	0	74.6	55.334	117.461	2.96	1.01	15.7	
Pyrene	3.01	0.3	4.01	0	75.1	57.722	120.832	2.88	4.41	15.3	
Benz(a)anthracene	0.31	0.02	0.401	0	77.3	70.18	113.452	0.31	0	119	
Chrysene	1.43	0.2	2.01	0	71.1	43.942	141.404	1.4	2.12	16.6	
Benzo(b)fluoranthene	0.409	0.05	0.501	0	81.6	71.192	103.368	0.359	13.0	21.7	
Benzo(k)fluoranthene	0.19	0.02	0.25	0	76.0	75.336	107.209	0.19	0	19.4	
Benzo(a)pyrene	0.2	0.02	0.251	0	79.7	74.556	100.742	0.191	4.60	16.7	
Dibenz(a,h)anthracene	0.4	0.04	0.501	0	79.8	80.693	106.931	0.404	0.995	17.3	S
Benzo(g,h,i)perylene	0.37	0.03	0.5	0	74.0	55.168	135.014	0.35	5.56	118	
Indeno(1,2,3-cd)pyrene	0.804	0.08	1.002	0	80.2	79.328	104.794	0.799	0.624	17.7	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 4

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

3/18/2005

Work Order Number 0503182

Received by AT

Checklist completed by

[Handwritten Signature]
Signature

3/18/05
Date

Matrix

Carrier name UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- 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
- Water - VOA vials have zero headspace? Yes No
- No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature?

1°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Client: SAN Juan Refining

Address: #50 Rd 4990

Bloomfield, NM
87413

Phone #: 505-632-4161

Fax #: 505-632-3711

Accreditation Applied:

NELAC USACE

Other:

Project Name: River Terrace -
MW#48 & MW#49 - 3/05

Project #:

Project Manager:

Sampler: Cindy Hurtado

Sample Temperature: /

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
3/16/05	225p	H ₂ O	MW#49	2-VOA	X		05031021
/	/	/	/	2-VOA	X		
/	/	/	/	1-liter			Amber
3/16/05	3:00p	H ₂ O	MW#48	2-VOA	X		-2
/	/	/	/	2-VOA	X		
/	/	/	/	1-liter			Amber

Date: 3/17/05	Time: 9am	Relinquished By: (Signature) Cindy Hurtado	Received By: (Signature) [Signature]
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature) 1600

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	X
BTEX + MTBE + TPH (Gasoline Only)	X
TPH Method 8015B (Gas/Diesel)	X
TPH (Method 418.1)	
EDB (Method 504.1)	
EDC (Method 8021)	
8310 (PAHs or PAH)	X
PCRA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / PCB's (8082)	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles or Headspace (Y or N)	

Remarks:



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

RECEIVED

APR 18 2005

OIL CONSERVATION
DIVISION

Certified Mail: 7001 1140 0000 4022 0750

April 8, 2005

**RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001**

Dear Mr. Price,

Please find attached analytical results for the January, 2005 sampling event for wells MW #48 and MW #49 on the river terrace at the Giant Refining facility. Note that the results for well MW #49, located down-gradient of the barrier wall, had a detection of benzene at a concentration of <10 ug/L.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Hurtado".

Cindy Hurtado
Environmental Assistant
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

PHONE
505-632-8013
FAX
505-632-3911

50 ROAD 4990
P.O. BOX 159
BLOOMFIELD
NEW MEXICO
87413

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-04

Client Sample ID: MW #48D
 Collection Date: 1/18/2005 1:30:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
Sulfate	160	2.5		mg/L	5	1/22/2005
EPA METHOD 310.1: ALKALINITY						
Alkalinity, Total (As CaCO3)	1100	4.0		mg/L CaCO3	2	2/1/2005
Carbonate	ND	4.0		mg/L CaCO3	2	2/1/2005
Bicarbonate	1100	4.0		mg/L CaCO3	2	2/1/2005
EPA METHOD 8015B: DIESEL RANGE						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/24/2005 6:11:11 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/24/2005 6:11:11 PM
Surr: DNOP	111	58-140		%REC	1	1/24/2005 6:11:11 PM
EPA METHOD 8015B: GASOLINE RANGE						
Gasoline Range Organics (GRO)	18	5.0		mg/L	100	1/21/2005 5:53:59 PM
Surr: BFB	110	78.3-120		%REC	100	1/21/2005 5:53:59 PM
EPA METHOD 8260B: VOLATILES						
Benzene	320	50		µg/L	50	1/25/2005
Toluene	ND	50		µg/L	50	1/25/2005
Ethylbenzene	1200	50		µg/L	50	1/25/2005
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	1/25/2005
1,2,4-Trimethylbenzene	1300	50		µg/L	50	1/25/2005
1,3,5-Trimethylbenzene	280	50		µg/L	50	1/25/2005
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	1/25/2005
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	1/25/2005
Naphthalene	170	100		µg/L	50	1/25/2005
1-Methylnaphthalene	ND	200		µg/L	50	1/25/2005
2-Methylnaphthalene	ND	200		µg/L	50	1/25/2005
Acetone	ND	500		µg/L	50	1/25/2005
Bromobenzene	ND	50		µg/L	50	1/25/2005
Bromochloromethane	ND	50		µg/L	50	1/25/2005
Bromodichloromethane	ND	50		µg/L	50	1/25/2005
Bromoform	ND	50		µg/L	50	1/25/2005
Bromomethane	ND	100		µg/L	50	1/25/2005
2-Butanone	ND	500		µg/L	50	1/25/2005
Carbon disulfide	ND	500		µg/L	50	1/25/2005
Carbon Tetrachloride	ND	50		µg/L	50	1/25/2005
Chlorobenzene	ND	50		µg/L	50	1/25/2005
Chloroethane	ND	100		µg/L	50	1/25/2005
Chloroform	ND	50		µg/L	50	1/25/2005
Chloromethane	ND	50		µg/L	50	1/25/2005
2-Chlorotoluene	ND	50		µg/L	50	1/25/2005
4-Chlorotoluene	ND	50		µg/L	50	1/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-04

Client Sample ID: MW #48D
 Collection Date: 1/18/2005 1:30:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,2-DCE	ND	50		µg/L	50	1/25/2005
cis-1,3-Dichloropropene	ND	50		µg/L	50	1/25/2005
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	1/25/2005
Dibromochloromethane	ND	50		µg/L	50	1/25/2005
Dibromomethane	ND	100		µg/L	50	1/25/2005
1,2-Dichlorobenzene	ND	50		µg/L	50	1/25/2005
1,3-Dichlorobenzene	ND	50		µg/L	50	1/25/2005
1,4-Dichlorobenzene	ND	50		µg/L	50	1/25/2005
Dichlorodifluoromethane	ND	50		µg/L	50	1/25/2005
1,1-Dichloroethane	ND	50		µg/L	50	1/25/2005
1,1-Dichloroethene	ND	50		µg/L	50	1/25/2005
1,2-Dichloropropane	ND	50		µg/L	50	1/25/2005
1,3-Dichloropropane	ND	50		µg/L	50	1/25/2005
2,2-Dichloropropane	ND	50		µg/L	50	1/25/2005
1,1-Dichloropropene	ND	50		µg/L	50	1/25/2005
Hexachlorobutadiene	ND	50		µg/L	50	1/25/2005
2-Hexanone	ND	500		µg/L	50	1/25/2005
Isopropylbenzene	100	50		µg/L	50	1/25/2005
4-Isopropyltoluene	ND	50		µg/L	50	1/25/2005
4-Methyl-2-pentanone	ND	500		µg/L	50	1/25/2005
Methylene Chloride	ND	150		µg/L	50	1/25/2005
n-Butylbenzene	64	50		µg/L	50	1/25/2005
n-Propylbenzene	210	50		µg/L	50	1/25/2005
sec-Butylbenzene	ND	50		µg/L	50	1/25/2005
Styrene	ND	50		µg/L	50	1/25/2005
tert-Butylbenzene	ND	50		µg/L	50	1/25/2005
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	1/25/2005
1,1,2,2-Tetrachloroethane	ND	50		µg/L	50	1/25/2005
Tetrachloroethene (PCE)	ND	50		µg/L	50	1/25/2005
trans-1,2-DCE	ND	50		µg/L	50	1/25/2005
trans-1,3-Dichloropropene	ND	50		µg/L	50	1/25/2005
1,2,3-Trichlorobenzene	ND	50		µg/L	50	1/25/2005
1,2,4-Trichlorobenzene	ND	50		µg/L	50	1/25/2005
1,1,1-Trichloroethane	ND	50		µg/L	50	1/25/2005
1,1,2-Trichloroethane	ND	50		µg/L	50	1/25/2005
Trichloroethene (TCE)	ND	50		µg/L	50	1/25/2005
Trichlorofluoromethane	ND	50		µg/L	50	1/25/2005
1,2,3-Trichloropropane	ND	100		µg/L	50	1/25/2005
Vinyl chloride	ND	50		µg/L	50	1/25/2005
Xylenes, Total	5700	50		µg/L	50	1/25/2005
Surr: 1,2-Dichloroethane-d4	102	74.7-113		%REC	50	1/25/2005
Surr: 4-Bromofluorobenzene	104	86.1-120		%REC	50	1/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining **Client Sample ID:** MW #48D
Lab Order: 0501150 **Collection Date:** 1/18/2005 1:30:00 PM
Project: River Terrace Investigation
Lab ID: 0501150-04 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	92.3	86.3-110		%REC	50	1/25/2005
Surr: Toluene-d8	107	83.1-112		%REC	50	1/25/2005
EPA METHOD 8310: PAHS						Analyst: BL
Naphthalene	120	2.5		µg/L	1	1/27/2005 6:36:50 PM
1-Methylnaphthalene	40	2.5		µg/L	1	1/27/2005 6:36:50 PM
2-Methylnaphthalene	41	2.5		µg/L	1	1/27/2005 6:36:50 PM
Acenaphthylene	ND	2.5		µg/L	1	1/27/2005 6:36:50 PM
Acenaphthene	ND	2.5		µg/L	1	1/27/2005 6:36:50 PM
Fluorene	ND	0.80		µg/L	1	1/27/2005 6:36:50 PM
Phenanthrene	0.95	0.60		µg/L	1	1/27/2005 6:36:50 PM
Anthracene	ND	0.60		µg/L	1	1/27/2005 6:36:50 PM
Fluoranthene	ND	0.30		µg/L	1	1/27/2005 6:36:50 PM
Pyrene	ND	0.30		µg/L	1	1/27/2005 6:36:50 PM
Benz(a)anthracene	ND	0.020		µg/L	1	1/27/2005 6:36:50 PM
Chrysene	ND	0.20		µg/L	1	1/27/2005 6:36:50 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	1/27/2005 6:36:50 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	1/27/2005 6:36:50 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	1/27/2005 6:36:50 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	1/27/2005 6:36:50 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	1/27/2005 6:36:50 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	1/27/2005 6:36:50 PM
Surr: Benzo(e)pyrene	68.4	54-102		%REC	1	1/27/2005 6:36:50 PM
EPA METHOD 6010C: DISSOLVED METALS						Analyst: CMC
Iron	ND	0.020		mg/L	1	1/20/2005 11:51:03 AM
EPA METHOD 160.1: TDS						Analyst: MAP
Total Dissolved Solids	1700	50		mg/L	1	1/26/2005
EPA METHOD 351.3: TKN						Analyst: CMC
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/28/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-05

Client Sample ID: MW #48S
 Collection Date: 1/18/2005 2:21:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
Sulfate	120	2.5		mg/L	5	1/22/2005
EPA METHOD 310.1: ALKALINITY						
Alkalinity, Total (As CaCO3)	1100	4.0		mg/L CaCO3	2	2/1/2005
Carbonate	ND	4.0		mg/L CaCO3	2	2/1/2005
Bicarbonate	1100	4.0		mg/L CaCO3	2	2/1/2005
EPA METHOD 8015B: DIESEL RANGE						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/24/2005 6:41:05 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/24/2005 6:41:05 PM
Surr: DNOP	111	58-140		%REC	1	1/24/2005 6:41:05 PM
EPA METHOD 8015B: GASOLINE RANGE						
Gasoline Range Organics (GRO)	20	5.0		mg/L	100	1/21/2005 6:23:51 PM
Surr: BFB	109	78.3-120		%REC	100	1/21/2005 6:23:51 PM
EPA METHOD 8260B: VOLATILES						
Benzene	480	50		µg/L	50	1/25/2005
Toluene	ND	50		µg/L	50	1/25/2005
Ethylbenzene	1600	50		µg/L	50	1/25/2005
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	1/25/2005
1,2,4-Trimethylbenzene	1700	50		µg/L	50	1/25/2005
1,3,5-Trimethylbenzene	380	50		µg/L	50	1/25/2005
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	1/25/2005
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	1/25/2005
Naphthalene	220	100		µg/L	50	1/25/2005
1-Methylnaphthalene	ND	200		µg/L	50	1/25/2005
2-Methylnaphthalene	ND	200		µg/L	50	1/25/2005
Acetone	ND	500		µg/L	50	1/25/2005
Bromobenzene	ND	50		µg/L	50	1/25/2005
Bromochloromethane	ND	50		µg/L	50	1/25/2005
Bromodichloromethane	ND	50		µg/L	50	1/25/2005
Bromoform	ND	50		µg/L	50	1/25/2005
Bromomethane	ND	100		µg/L	50	1/25/2005
2-Butanone	ND	500		µg/L	50	1/25/2005
Carbon disulfide	ND	500		µg/L	50	1/25/2005
Carbon Tetrachloride	ND	50		µg/L	50	1/25/2005
Chlorobenzene	ND	50		µg/L	50	1/25/2005
Chloroethane	ND	100		µg/L	50	1/25/2005
Chloroform	ND	50		µg/L	50	1/25/2005
Chloromethane	ND	50		µg/L	50	1/25/2005
2-Chlorotoluene	ND	50		µg/L	50	1/25/2005
4-Chlorotoluene	ND	50		µg/L	50	1/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-05

Client Sample ID: MW #48S
 Collection Date: 1/18/2005 2:21:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,2-DCE	ND	50		µg/L	50	1/25/2005
cis-1,3-Dichloropropene	ND	50		µg/L	50	1/25/2005
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	1/25/2005
Dibromochloromethane	ND	50		µg/L	50	1/25/2005
Dibromomethane	ND	100		µg/L	50	1/25/2005
1,2-Dichlorobenzene	ND	50		µg/L	50	1/25/2005
1,3-Dichlorobenzene	ND	50		µg/L	50	1/25/2005
1,4-Dichlorobenzene	ND	50		µg/L	50	1/25/2005
Dichlorodifluoromethane	ND	50		µg/L	50	1/25/2005
1,1-Dichloroethane	ND	50		µg/L	50	1/25/2005
1,1-Dichloroethene	ND	50		µg/L	50	1/25/2005
1,2-Dichloropropane	ND	50		µg/L	50	1/25/2005
1,3-Dichloropropane	ND	50		µg/L	50	1/25/2005
2,2-Dichloropropane	ND	50		µg/L	50	1/25/2005
1,1-Dichloropropene	ND	50		µg/L	50	1/25/2005
Hexachlorobutadiene	ND	50		µg/L	50	1/25/2005
2-Hexanone	ND	500		µg/L	50	1/25/2005
Isopropylbenzene	110	50		µg/L	50	1/25/2005
4-Isopropyltoluene	ND	50		µg/L	50	1/25/2005
4-Methyl-2-pentanone	ND	500		µg/L	50	1/25/2005
Methylene Chloride	ND	150		µg/L	50	1/25/2005
n-Butylbenzene	56	50		µg/L	50	1/25/2005
n-Propylbenzene	240	50		µg/L	50	1/25/2005
sec-Butylbenzene	ND	50		µg/L	50	1/25/2005
Styrene	ND	50		µg/L	50	1/25/2005
tert-Butylbenzene	ND	50		µg/L	50	1/25/2005
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	1/25/2005
1,1,2,2-Tetrachloroethane	ND	50		µg/L	50	1/25/2005
Tetrachloroethene (PCE)	ND	50		µg/L	50	1/25/2005
trans-1,2-DCE	ND	50		µg/L	50	1/25/2005
trans-1,3-Dichloropropene	ND	50		µg/L	50	1/25/2005
1,2,3-Trichlorobenzene	ND	50		µg/L	50	1/25/2005
1,2,4-Trichlorobenzene	ND	50		µg/L	50	1/25/2005
1,1,1-Trichloroethane	ND	50		µg/L	50	1/25/2005
1,1,2-Trichloroethane	ND	50		µg/L	50	1/25/2005
Trichloroethene (TCE)	ND	50		µg/L	50	1/25/2005
Trichlorofluoromethane	ND	50		µg/L	50	1/25/2005
1,2,3-Trichloropropane	ND	100		µg/L	50	1/25/2005
Vinyl chloride	ND	50		µg/L	50	1/25/2005
Xylenes, Total	7400	50		µg/L	50	1/25/2005
Surr: 1,2-Dichloroethane-d4	100	74.7-113		%REC	50	1/25/2005
Surr: 4-Bromofluorobenzene	99.0	86.1-120		%REC	50	1/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-05

Client Sample ID: MW #48S
 Collection Date: 1/18/2005 2:21:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	94.9	86.3-110		%REC	50	1/25/2005
Surr: Toluene-d8	108	83.1-112		%REC	50	1/25/2005

EPA METHOD 8310: PAHS

Analyst: BL

Naphthalene	160	2.5		µg/L	1	1/27/2005 7:24:50 PM
1-Methylnaphthalene	51	2.5		µg/L	1	1/27/2005 7:24:50 PM
2-Methylnaphthalene	59	2.5		µg/L	1	1/27/2005 7:24:50 PM
Acenaphthylene	ND	2.5		µg/L	1	1/27/2005 7:24:50 PM
Acenaphthene	ND	2.5		µg/L	1	1/27/2005 7:24:50 PM
Fluorene	ND	0.80		µg/L	1	1/27/2005 7:24:50 PM
Phenanthrene	1.3	0.60		µg/L	1	1/27/2005 7:24:50 PM
Anthracene	ND	0.60		µg/L	1	1/27/2005 7:24:50 PM
Fluoranthene	ND	0.30		µg/L	1	1/27/2005 7:24:50 PM
Pyrene	ND	0.30		µg/L	1	1/27/2005 7:24:50 PM
Benz(a)anthracene	ND	0.020		µg/L	1	1/27/2005 7:24:50 PM
Chrysene	ND	0.20		µg/L	1	1/27/2005 7:24:50 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	1/27/2005 7:24:50 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	1/27/2005 7:24:50 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	1/27/2005 7:24:50 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	1/27/2005 7:24:50 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	1/27/2005 7:24:50 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	1/27/2005 7:24:50 PM
Surr: Benzo(e)pyrene	78.1	54-102		%REC	1	1/27/2005 7:24:50 PM

EPA METHOD 6010C: DISSOLVED METALS

Analyst: CMC

Iron	ND	0.020		mg/L	1	1/20/2005 11:55:09 AM
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EPA METHOD 160.1: TDS

Analyst: MAP

Total Dissolved Solids	1600	50		mg/L	1	1/26/2005
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EPA METHOD 351.3: TKN

Analyst: CMC

Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/28/2005
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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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-06

Client Sample ID: MW #49D
 Collection Date: 1/18/2005 9:45:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Analyst: MAP						
Sulfate	220	2.5		mg/L	5	1/22/2005
EPA METHOD 310.1: ALKALINITY Analyst: MAP						
Alkalinity, Total (As CaCO3)	960	4.0		mg/L CaCO3	2	2/1/2005
Carbonate	ND	4.0		mg/L CaCO3	2	2/1/2005
Bicarbonate	960	4.0		mg/L CaCO3	2	2/1/2005
EPA METHOD 8015B: DIESEL RANGE Analyst: JMP						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/24/2005 7:10:55 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/24/2005 7:10:55 PM
Surr: DNOP	115	58-140		%REC	1	1/24/2005 7:10:55 PM
EPA METHOD 8015B: GASOLINE RANGE Analyst: NSB						
Gasoline Range Organics (GRO)	0.11	0.050		mg/L	1	1/21/2005 6:53:37 PM
Surr: BFB	108	78.3-120		%REC	1	1/21/2005 6:53:37 PM
EPA METHOD 8260B: VOLATILES Analyst: BDH						
Benzene	3.8	1.0		µg/L	1	1/25/2005
Toluene	ND	1.0		µg/L	1	1/25/2005
Ethylbenzene	ND	1.0		µg/L	1	1/25/2005
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/25/2005
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/25/2005
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/25/2005
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/25/2005
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/25/2005
Naphthalene	ND	2.0		µg/L	1	1/25/2005
1-Methylnaphthalene	ND	4.0		µg/L	1	1/25/2005
2-Methylnaphthalene	ND	4.0		µg/L	1	1/25/2005
Acetone	ND	10		µg/L	1	1/25/2005
Bromobenzene	ND	1.0		µg/L	1	1/25/2005
Bromochloromethane	ND	1.0		µg/L	1	1/25/2005
Bromodichloromethane	ND	1.0		µg/L	1	1/25/2005
Bromoform	ND	1.0		µg/L	1	1/25/2005
Bromomethane	ND	2.0		µg/L	1	1/25/2005
2-Butanone	ND	10		µg/L	1	1/25/2005
Carbon disulfide	ND	10		µg/L	1	1/25/2005
Carbon Tetrachloride	ND	1.0		µg/L	1	1/25/2005
Chlorobenzene	ND	1.0		µg/L	1	1/25/2005
Chloroethane	ND	2.0		µg/L	1	1/25/2005
Chloroform	ND	1.0		µg/L	1	1/25/2005
Chloromethane	ND	1.0		µg/L	1	1/25/2005
2-Chlorotoluene	ND	1.0		µg/L	1	1/25/2005
4-Chlorotoluene	ND	1.0		µg/L	1	1/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-06

Client Sample ID: MW #49D
 Collection Date: 1/18/2005 9:45:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,2-DCE	ND	1.0		µg/L	1	1/25/2005
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/25/2005
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/25/2005
Dibromochloromethane	ND	1.0		µg/L	1	1/25/2005
Dibromomethane	ND	2.0		µg/L	1	1/25/2005
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/25/2005
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/25/2005
1,1-Dichloroethane	ND	1.0		µg/L	1	1/25/2005
1,1-Dichloroethene	ND	1.0		µg/L	1	1/25/2005
1,2-Dichloropropane	ND	1.0		µg/L	1	1/25/2005
1,3-Dichloropropane	ND	1.0		µg/L	1	1/25/2005
2,2-Dichloropropane	ND	1.0		µg/L	1	1/25/2005
1,1-Dichloropropene	ND	1.0		µg/L	1	1/25/2005
Hexachlorobutadiene	ND	1.0		µg/L	1	1/25/2005
2-Hexanone	ND	10		µg/L	1	1/25/2005
Isopropylbenzene	ND	1.0		µg/L	1	1/25/2005
4-Isopropyltoluene	ND	1.0		µg/L	1	1/25/2005
4-Methyl-2-pentanone	ND	10		µg/L	1	1/25/2005
Methylene Chloride	ND	3.0		µg/L	1	1/25/2005
n-Butylbenzene	ND	1.0		µg/L	1	1/25/2005
n-Propylbenzene	ND	1.0		µg/L	1	1/25/2005
sec-Butylbenzene	ND	1.0		µg/L	1	1/25/2005
Styrene	ND	1.0		µg/L	1	1/25/2005
tert-Butylbenzene	ND	1.0		µg/L	1	1/25/2005
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/25/2005
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	1/25/2005
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/25/2005
trans-1,2-DCE	ND	1.0		µg/L	1	1/25/2005
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/25/2005
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/25/2005
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/25/2005
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/25/2005
Trichlorofluoromethane	ND	1.0		µg/L	1	1/25/2005
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/25/2005
Vinyl chloride	ND	1.0		µg/L	1	1/25/2005
Xylenes, Total	ND	1.0		µg/L	1	1/25/2005
Surr: 1,2-Dichloroethane-d4	106	74.7-113		%REC	1	1/25/2005
Surr: 4-Bromofluorobenzene	96.2	86.1-120		%REC	1	1/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-06

Client Sample ID: MW #49D
 Collection Date: 1/18/2005 9:45:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	98.5	86.3-110		%REC	1	1/25/2005
Surr: Toluene-d8	101	83.1-112		%REC	1	1/25/2005

EPA METHOD 8310: PAHS

Analyst: BL

Naphthalene	ND	2.5		µg/L	1	1/27/2005 8:12:49 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	1/27/2005 8:12:49 PM
2-Methylnaphthalene	ND	2.5		µg/L	1	1/27/2005 8:12:49 PM
Acenaphthylene	ND	2.5		µg/L	1	1/27/2005 8:12:49 PM
Acenaphthene	ND	2.5		µg/L	1	1/27/2005 8:12:49 PM
Fluorene	ND	0.80		µg/L	1	1/27/2005 8:12:49 PM
Phenanthrene	ND	0.60		µg/L	1	1/27/2005 8:12:49 PM
Anthracene	ND	0.60		µg/L	1	1/27/2005 8:12:49 PM
Fluoranthene	ND	0.30		µg/L	1	1/27/2005 8:12:49 PM
Pyrene	ND	0.30		µg/L	1	1/27/2005 8:12:49 PM
Benz(a)anthracene	ND	0.020		µg/L	1	1/27/2005 8:12:49 PM
Chrysene	ND	0.20		µg/L	1	1/27/2005 8:12:49 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	1/27/2005 8:12:49 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	1/27/2005 8:12:49 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	1/27/2005 8:12:49 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	1/27/2005 8:12:49 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	1/27/2005 8:12:49 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	1/27/2005 8:12:49 PM
Surr: Benzo(e)pyrene	78.4	54-102		%REC	1	1/27/2005 8:12:49 PM

EPA METHOD 6010C: DISSOLVED METALS

Analyst: CMC

Iron	0.82	0.020		mg/L	1	1/20/2005 12:18:37 PM
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EPA METHOD 160.1: TDS

Analyst: MAP

Total Dissolved Solids	1600	50		mg/L	1	1/26/2005
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EPA METHOD 351.3: TKN

Analyst: CMC

Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/28/2005
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-07

Client Sample ID: MW #49S
 Collection Date: 1/18/2005 11:06:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Analyst: MAP						
Sulfate	210	2.5		mg/L	5	1/22/2005
EPA METHOD 310.1: ALKALINITY Analyst: MAP						
Alkalinity, Total (As CaCO ₃)	1000	4.0		mg/L CaCO ₃	2	2/1/2005
Carbonate	ND	4.0		mg/L CaCO ₃	2	2/1/2005
Bicarbonate	1000	4.0		mg/L CaCO ₃	2	2/1/2005
EPA METHOD 8015B: DIESEL RANGE Analyst: JMP						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/24/2005 7:40:32 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/24/2005 7:40:32 PM
Surr: DNOP	113	58-140		%REC	1	1/24/2005 7:40:32 PM
EPA METHOD 8015B: GASOLINE RANGE Analyst: NSB						
Gasoline Range Organics (GRO)	0.14	0.050		mg/L	1	1/21/2005 7:23:29 PM
Surr: BFB	110	78.3-120		%REC	1	1/21/2005 7:23:29 PM
EPA METHOD 8260B: VOLATILES Analyst: BDH						
Benzene	4.2	1.0		µg/L	1	1/25/2005
Toluene	ND	1.0		µg/L	1	1/25/2005
Ethylbenzene	ND	1.0		µg/L	1	1/25/2005
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/25/2005
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/25/2005
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/25/2005
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/25/2005
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/25/2005
Naphthalene	ND	2.0		µg/L	1	1/25/2005
1-Methylnaphthalene	ND	4.0		µg/L	1	1/25/2005
2-Methylnaphthalene	ND	4.0		µg/L	1	1/25/2005
Acetone	ND	10		µg/L	1	1/25/2005
Bromobenzene	ND	1.0		µg/L	1	1/25/2005
Bromochloromethane	ND	1.0		µg/L	1	1/25/2005
Bromodichloromethane	ND	1.0		µg/L	1	1/25/2005
Bromoform	ND	1.0		µg/L	1	1/25/2005
Bromomethane	ND	2.0		µg/L	1	1/25/2005
2-Butanone	ND	10		µg/L	1	1/25/2005
Carbon disulfide	ND	10		µg/L	1	1/25/2005
Carbon Tetrachloride	ND	1.0		µg/L	1	1/25/2005
Chlorobenzene	ND	1.0		µg/L	1	1/25/2005
Chloroethane	ND	2.0		µg/L	1	1/25/2005
Chloroform	ND	1.0		µg/L	1	1/25/2005
Chloromethane	ND	1.0		µg/L	1	1/25/2005
2-Chlorotoluene	ND	1.0		µg/L	1	1/25/2005
4-Chlorotoluene	ND	1.0		µg/L	1	1/25/2005

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

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-07

Client Sample ID: MW #49S
 Collection Date: 1/18/2005 11:06:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,2-DCE	ND	1.0		µg/L	1	1/25/2005
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/25/2005
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/25/2005
Dibromochloromethane	ND	1.0		µg/L	1	1/25/2005
Dibromomethane	ND	2.0		µg/L	1	1/25/2005
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/25/2005
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/25/2005
1,1-Dichloroethane	ND	1.0		µg/L	1	1/25/2005
1,1-Dichloroethene	ND	1.0		µg/L	1	1/25/2005
1,2-Dichloropropane	ND	1.0		µg/L	1	1/25/2005
1,3-Dichloropropane	ND	1.0		µg/L	1	1/25/2005
2,2-Dichloropropane	ND	1.0		µg/L	1	1/25/2005
1,1-Dichloropropene	ND	1.0		µg/L	1	1/25/2005
Hexachlorobutadiene	ND	1.0		µg/L	1	1/25/2005
2-Hexanone	ND	10		µg/L	1	1/25/2005
Isopropylbenzene	ND	1.0		µg/L	1	1/25/2005
4-Isopropyltoluene	ND	1.0		µg/L	1	1/25/2005
4-Methyl-2-pentanone	ND	10		µg/L	1	1/25/2005
Methylene Chloride	ND	3.0		µg/L	1	1/25/2005
n-Butylbenzene	ND	1.0		µg/L	1	1/25/2005
n-Propylbenzene	ND	1.0		µg/L	1	1/25/2005
sec-Butylbenzene	ND	1.0		µg/L	1	1/25/2005
Styrene	ND	1.0		µg/L	1	1/25/2005
tert-Butylbenzene	ND	1.0		µg/L	1	1/25/2005
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/25/2005
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	1/25/2005
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/25/2005
trans-1,2-DCE	ND	1.0		µg/L	1	1/25/2005
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/25/2005
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/25/2005
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/25/2005
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/25/2005
Trichlorofluoromethane	ND	1.0		µg/L	1	1/25/2005
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/25/2005
Vinyl chloride	ND	1.0		µg/L	1	1/25/2005
Xylenes, Total	ND	1.0		µg/L	1	1/25/2005
Surr: 1,2-Dichloroethane-d4	108	74.7-113		%REC	1	1/25/2005
Surr: 4-Bromofluorobenzene	89.2	86.1-120		%REC	1	1/25/2005

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

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
Lab Order: 0501150
Project: River Terrace Investigation
Lab ID: 0501150-07

Client Sample ID: MW #49S
Collection Date: 1/18/2005 11:06:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	102	86.3-110		%REC	1	1/25/2005
Surr: Toluene-d8	99.5	83.1-112		%REC	1	1/25/2005
EPA METHOD 8310: PAHS						Analyst: BL
Naphthalene	ND	2.5		µg/L	1	1/27/2005 9:00:48 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	1/27/2005 9:00:48 PM
2-Methylnaphthalene	ND	2.5		µg/L	1	1/27/2005 9:00:48 PM
Acenaphthylene	ND	2.5		µg/L	1	1/27/2005 9:00:48 PM
Acenaphthene	ND	2.5		µg/L	1	1/27/2005 9:00:48 PM
Fluorene	ND	0.80		µg/L	1	1/27/2005 9:00:48 PM
Phenanthrene	ND	0.60		µg/L	1	1/27/2005 9:00:48 PM
Anthracene	ND	0.60		µg/L	1	1/27/2005 9:00:48 PM
Fluoranthene	ND	0.30		µg/L	1	1/27/2005 9:00:48 PM
Pyrene	ND	0.30		µg/L	1	1/27/2005 9:00:48 PM
Benz(a)anthracene	ND	0.020		µg/L	1	1/27/2005 9:00:48 PM
Chrysene	ND	0.20		µg/L	1	1/27/2005 9:00:48 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	1/27/2005 9:00:48 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	1/27/2005 9:00:48 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	1/27/2005 9:00:48 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	1/27/2005 9:00:48 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	1/27/2005 9:00:48 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	1/27/2005 9:00:48 PM
Surr: Benzo(e)pyrene	84.5	54-102		%REC	1	1/27/2005 9:00:48 PM
EPA METHOD 6010C: DISSOLVED METALS						Analyst: CMC
Iron	0.90	0.020		mg/L	1	1/20/2005 12:22:50 PM
EPA METHOD 160.1: TDS						Analyst: MAP
Total Dissolved Solids	1600	50		mg/L	1	1/26/2005
EPA METHOD 351.3: TKN						Analyst: CMC
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/28/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-08

Client Sample ID: TRIP BLANK
 Collection Date:
 Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/24/2005 8:39:48 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/24/2005 8:39:48 PM
Surr: DNOP	113	58-140		%REC	1	1/24/2005 8:39:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/21/2005 7:53:19 PM
Surr: BFB	101	78.3-120		%REC	1	1/21/2005 7:53:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	1.0		µg/L	1	1/25/2005
Toluene	ND	1.0		µg/L	1	1/25/2005
Ethylbenzene	ND	1.0		µg/L	1	1/25/2005
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/25/2005
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/25/2005
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/25/2005
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/25/2005
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/25/2005
Naphthalene	ND	2.0		µg/L	1	1/25/2005
1-Methylnaphthalene	ND	4.0		µg/L	1	1/25/2005
2-Methylnaphthalene	ND	4.0		µg/L	1	1/25/2005
Acetone	ND	10		µg/L	1	1/25/2005
Bromobenzene	ND	1.0		µg/L	1	1/25/2005
Bromochloromethane	ND	1.0		µg/L	1	1/25/2005
Bromodichloromethane	ND	1.0		µg/L	1	1/25/2005
Bromoform	ND	1.0		µg/L	1	1/25/2005
Bromomethane	ND	2.0		µg/L	1	1/25/2005
2-Butanone	ND	10		µg/L	1	1/25/2005
Carbon disulfide	ND	10		µg/L	1	1/25/2005
Carbon Tetrachloride	ND	1.0		µg/L	1	1/25/2005
Chlorobenzene	ND	1.0		µg/L	1	1/25/2005
Chloroethane	ND	2.0		µg/L	1	1/25/2005
Chloroform	ND	1.0		µg/L	1	1/25/2005
Chloromethane	ND	1.0		µg/L	1	1/25/2005
2-Chlorotoluene	ND	1.0		µg/L	1	1/25/2005
4-Chlorotoluene	ND	1.0		µg/L	1	1/25/2005
cis-1,2-DCE	ND	1.0		µg/L	1	1/25/2005
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/25/2005
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/25/2005
Dibromochloromethane	ND	1.0		µg/L	1	1/25/2005
Dibromomethane	ND	2.0		µg/L	1	1/25/2005
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 04-Feb-05

CLIENT: San Juan Refining
 Lab Order: 0501150
 Project: River Terrace Investigation
 Lab ID: 0501150-08

Client Sample ID: TRIP BLANK
 Collection Date:
 Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/25/2005
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/25/2005
1,1-Dichloroethane	ND	1.0		µg/L	1	1/25/2005
1,1-Dichloroethene	ND	1.0		µg/L	1	1/25/2005
1,2-Dichloropropane	ND	1.0		µg/L	1	1/25/2005
1,3-Dichloropropane	ND	1.0		µg/L	1	1/25/2005
2,2-Dichloropropane	ND	1.0		µg/L	1	1/25/2005
1,1-Dichloropropene	ND	1.0		µg/L	1	1/25/2005
Hexachlorobutadiene	ND	1.0		µg/L	1	1/25/2005
2-Hexanone	ND	10		µg/L	1	1/25/2005
Isopropylbenzene	ND	1.0		µg/L	1	1/25/2005
4-Isopropyltoluene	ND	1.0		µg/L	1	1/25/2005
4-Methyl-2-pentanone	ND	10		µg/L	1	1/25/2005
Methylene Chloride	ND	3.0		µg/L	1	1/25/2005
n-Butylbenzene	ND	1.0		µg/L	1	1/25/2005
n-Propylbenzene	ND	1.0		µg/L	1	1/25/2005
sec-Butylbenzene	ND	1.0		µg/L	1	1/25/2005
Styrene	ND	1.0		µg/L	1	1/25/2005
tert-Butylbenzene	ND	1.0		µg/L	1	1/25/2005
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/25/2005
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	1/25/2005
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/25/2005
trans-1,2-DCE	ND	1.0		µg/L	1	1/25/2005
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/25/2005
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/25/2005
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/25/2005
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/25/2005
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/25/2005
Trichlorofluoromethane	ND	1.0		µg/L	1	1/25/2005
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/25/2005
Vinyl chloride	ND	1.0		µg/L	1	1/25/2005
Xylenes, Total	ND	1.0		µg/L	1	1/25/2005
Surr: 1,2-Dichloroethane-d4	104	74.7-113		%REC	1	1/25/2005
Surr: 4-Bromofluorobenzene	101	86.1-120		%REC	1	1/25/2005
Surr: Dibromofluoromethane	98.3	86.3-110		%REC	1	1/25/2005
Surr: Toluene-d8	105	83.1-112		%REC	1	1/25/2005

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

* - Value exceeds Maximum Contaminant Level



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

Certified Mail: 7099 3220 001 2242 5273

March 31, 2005

**RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001**

Dear Mr. Price,

Please find attached analytical results for the February 24, 2005 sampling event for wells MW #48 and MW #49 on the river terrace at the Giant Refining facility. Note that the results for well MW #49, located down-gradient of the barrier wall, had a detection of benzene at a concentration of 35 ug/L. This was the first time that benzene has been detected above 10 ug/L in that well. We will continue to monitor both wells on a monthly basis and evaluate the concentration trends.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Hurtado".

Cindy Hurtado
Environmental Assistant
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Supervisor – Giant Refining

PHONE
505-632-8013
FAX
505-632-3911

50 ROAD 4990
P.O. BOX 159
BLOOMFIELD
NEW MEXICO
87413

COVER LETTER

March 15, 2005

Cindy Hurtado
San Juan Refining
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: River Terrace MW#48 & MW#49-2/05

Order No.: 0502248

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 2 samples on 2/25/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 15-Mar-05

CLIENT: San Juan Refining

Client Sample ID: MW #48

Lab Order: 0502248

Collection Date: 2/24/2005 9:50:00 AM

Project: River Terrace MW#48 & MW#49-2/05

Lab ID: 0502248-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/3/2005 7:38:35 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/3/2005 7:38:35 AM
Surr: DNOP	134	58-140		%REC	1	3/3/2005 7:38:35 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	31	2.5		mg/L	50	2/28/2005 4:53:28 PM
Surr: BFB	109	78.3-120		%REC	50	2/28/2005 4:53:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	2/28/2005 4:53:28 PM
Benzene	660	25		µg/L	50	2/28/2005 4:53:28 PM
Toluene	ND	25		µg/L	50	2/28/2005 4:53:28 PM
Ethylbenzene	2200	25		µg/L	50	2/28/2005 4:53:28 PM
Xylenes, Total	11000	25		µg/L	50	2/28/2005 4:53:28 PM
Surr: 4-Bromofluorobenzene	107	83.3-121		%REC	50	2/28/2005 4:53:28 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	320	13		µg/L	5	3/10/2005 5:50:37 PM
1-Methylnaphthalene	94	2.5		µg/L	1	3/10/2005 2:39:33 PM
2-Methylnaphthalene	120	2.5		µg/L	1	3/10/2005 2:39:33 PM
Acenaphthylene	ND	2.5		µg/L	1	3/10/2005 2:39:33 PM
Acenaphthene	ND	2.5		µg/L	1	3/10/2005 2:39:33 PM
Fluorene	1.2	0.80		µg/L	1	3/10/2005 2:39:33 PM
Phenanthrene	ND	3.0		µg/L	5	3/10/2005 5:50:37 PM
Anthracene	ND	0.60		µg/L	1	3/10/2005 2:39:33 PM
Fluoranthene	ND	0.30		µg/L	1	3/10/2005 2:39:33 PM
Pyrene	ND	0.30		µg/L	1	3/10/2005 2:39:33 PM
Benzo(a)anthracene	ND	0.020		µg/L	1	3/10/2005 2:39:33 PM
Chrysene	ND	0.20		µg/L	1	3/10/2005 2:39:33 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	3/10/2005 2:39:33 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	3/10/2005 2:39:33 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	3/10/2005 2:39:33 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	3/10/2005 2:39:33 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	3/10/2005 2:39:33 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	3/10/2005 2:39:33 PM
Surr: Benzo(e)pyrene	90.0	54-102		%REC	1	3/10/2005 2:39:33 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
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 15-Mar-05

CLIENT: San Juan Refining Client Sample ID: MW #49
 Lab Order: 0502248 Collection Date: 2/24/2005 9:10:00 AM
 Project: River Terrace MW#48 & MW#49-2/05
 Lab ID: 0502248-02 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/3/2005 8:08:28 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/3/2005 8:08:28 AM
Surr: DNOP	136	58-140		%REC	1	3/3/2005 8:08:28 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.39	0.050		mg/L	1	2/28/2005 5:23:18 PM
Surr: BFB	108	78.3-120		%REC	1	2/28/2005 5:23:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	2/28/2005 5:23:18 PM
Benzene	35	0.50		µg/L	1	2/28/2005 5:23:18 PM
Toluene	0.55	0.50		µg/L	1	2/28/2005 5:23:18 PM
Ethylbenzene	6.6	0.50		µg/L	1	2/28/2005 5:23:18 PM
Xylenes, Total	4.1	0.50		µg/L	1	2/28/2005 5:23:18 PM
Surr: 4-Bromofluorobenzene	107	83.3-121		%REC	1	2/28/2005 5:23:18 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	ND	2.5		µg/L	1	3/10/2005 3:27:33 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	3/10/2005 3:27:33 PM
2-Methylnaphthalene	ND	2.5		µg/L	1	3/10/2005 3:27:33 PM
Acenaphthylene	ND	2.5		µg/L	1	3/10/2005 3:27:33 PM
Acenaphthene	ND	2.5		µg/L	1	3/10/2005 3:27:33 PM
Fluorene	ND	0.80		µg/L	1	3/10/2005 3:27:33 PM
Phenanthrene	ND	0.60		µg/L	1	3/10/2005 3:27:33 PM
Anthracene	ND	0.60		µg/L	1	3/10/2005 3:27:33 PM
Fluoranthene	ND	0.30		µg/L	1	3/10/2005 3:27:33 PM
Pyrene	ND	0.30		µg/L	1	3/10/2005 3:27:33 PM
Benz(a)anthracene	ND	0.020		µg/L	1	3/10/2005 3:27:33 PM
Chrysene	ND	0.20		µg/L	1	3/10/2005 3:27:33 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	3/10/2005 3:27:33 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	3/10/2005 3:27:33 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	3/10/2005 3:27:33 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	3/10/2005 3:27:33 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	3/10/2005 3:27:33 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	3/10/2005 3:27:33 PM
Surr: Benzo(e)pyrene	81.7	54-102		%REC	1	3/10/2005 3:27:33 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 15-Mar-05

CLIENT: San Juan Refining
 Work Order: 0502248
 Project: River Terrace MW#48 & MW#49-2/05
 QC SUMMARY REPORT
 Method Blank

Sample ID MB-7498 Batch ID: 7498 Test Code: SW8015 Units: mg/L Analysis Date 3/3/2005 4:09:44 AM Prep Date 3/1/2005
 Client ID: FID(17A) 2_050302A SeqNo: 342365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.261	0	1	0	126	58	140	0			

Sample ID Reagent Blank 5m Batch ID: R14694 Test Code: SW8015 Units: mg/L Analysis Date 2/28/2005 7:20:50 AM Prep Date
 Client ID: PIDFID_050228A SeqNo: 341932

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	21.45	0	20	0	107	78.3	120	0			

Sample ID Reagent Blank 5m Batch ID: R14694 Test Code: SW8021 Units: µg/L Analysis Date 2/28/2005 7:20:50 AM Prep Date
 Client ID: PIDFID_050228A SeqNo: 341931

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	21.49	0	20	0	107	83.3	121	0			

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

QC SUMMARY REPORT
Method Blank

CLIENT: San Juan Refining
Work Order: 0502248
Project: River Terrace MW#48 & MW#49-2/05

Sample ID MB-7503 Batch ID: 7503 Test Code: SW8310 Units: µg/L Analysis Date 3/10/2005 12:15:33 PM Prep Date 3/2/2005
Client ID: HUGO_050309A Run ID: HUGO_050309A SeqNo: 343907

Analyte	Result	PQL	SPK value	SPK Ref Val	µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	2.5										
1-Methylnaphthalene	ND	2.5										
2-Methylnaphthalene	ND	2.5										
Acenaphthylene	ND	2.5										
Acenaphthene	ND	2.5										
Fluorene	ND	0.8										
Phenanthrene	ND	0.6										
Anthracene	ND	0.6										
Fluoranthene	ND	0.3										
Pyrene	ND	0.3										
Benz(a)anthracene	ND	0.02										
Chrysene	ND	0.2										
Benzo(b)fluoranthene	ND	0.05										
Benzo(k)fluoranthene	ND	0.02										
Benzo(a)pyrene	ND	0.02										
Dibenz(a,h)anthracene	ND	0.04										
Benzo(g,h,i)perylene	ND	0.03										
Indeno(1,2,3-cd)pyrene	ND	0.08										
Surr: Benzo(e)pyrene	7.67	0	10	0	0	76.7	54	102	0			

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

Hall Environmental Analysis Laboratory

Date: 15-Mar-05

CLIENT: San Juan Refining
 Work Order: 0502248
 Project: River Terrace MW#48 & MW#49-2/05

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID	0502248-02a ms	Batch ID: R14694	Test Code: SW8015	Units: mg/L	Analysis Date	2/28/2005 5:53:11 PM	Prep Date				
Client ID:	MW #49	Run ID:	PIDFID_050228A	SeqNo:	341958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.8214	0.05	0.5	0.3862	87.0	82.6	114	0			
Surr: BFB	25.65	0	25	0	103	78.3	120	0			

Sample ID	0502248-02a msd	Batch ID: R14694	Test Code: SW8015	Units: mg/L	Analysis Date	2/28/2005 6:23:07 PM	Prep Date				
Client ID:	MW #49	Run ID:	PIDFID_050228A	SeqNo:	341959						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.8856	0.05	0.5	0.3862	99.9	82.6	114	0.8214	7.52	8.39	
Surr: BFB	25.84	0	25	0	103	78.3	120	25.65	0.705	0	

Sample ID	0502248-02a ms	Batch ID: R14694	Test Code: SW8021	Units: µg/L	Analysis Date	2/28/2005 6:53:02 PM	Prep Date				
Client ID:	MW #49	Run ID:	PIDFID_050228A	SeqNo:	341945						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	35.15	2.5	40	0.6326	86.3	64.5	133	0			
Benzene	53.04	0.5	20	35.39	88.3	85	114	0			
Toluene	19.66	0.5	20	0.5548	95.5	89.3	112	0			
Ethylbenzene	25.98	0.5	20	6.596	96.9	88.6	113	0			
Xylenes, Total	61.81	0.5	60	4.058	96.3	89.4	112	0			
Surr: 4-Bromofluorobenzene	23.16	0	24	0	96.5	83.3	121	0			

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

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

CLIENT: San Juan Refining
 Work Order: 0502248
 Project: River Terrace MW#48 & MW#49-2/05

Sample ID	0502248-02a msd	Batch ID: R14694	Test Code: SW8021	Units: µg/L	Analysis Date 2/28/2005 7:22:56 PM	Prep Date					
Client ID: MW #49	Run ID: PIDFID_050228A	PQL	SPK value	SPK Ref Val	SeqNo: 341946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	39.47	2.5	40	0.6326	97.1	64.5	133	35.15	11.6	28	
Benzene	53.55	0.5	20	35.39	90.8	88.7	114	53.04	0.966	27	
Toluene	19.98	0.5	20	0.5548	97.1	89.3	112	19.66	1.60	19	
Ethylbenzene	25.92	0.5	20	6.596	96.6	88.6	113	25.98	0.236	10	
Xylenes, Total	63.24	0.5	60	4.058	98.6	89.4	112	61.81	2.29	13	
Surr: 4-Bromofluorobenzene	23.93	0	24	0	99.7	83.3	121	23.16	3.27	0	

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

Hall Environmental Analysis Laboratory

Date: 15-Mar-05

CLIENT: San Juan Refining
Work Order: 0502248
Project: River Terrace MW#48 & MW#49-2/05

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	LCS-7498	Batch ID	7498	Test Code	SW8015	Units	mg/L	Analysis Date	3/3/2005 4:39:38 AM	Prep Date	3/1/2005
Client ID:		Run ID:	FID(17A)_2_050302A	SeqNo:	342366						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.318	1	5	0	126	81.2	149	0			

Sample ID	LCS-7498	Batch ID	7498	Test Code	SW8015	Units	mg/L	Analysis Date	3/3/2005 5:10:21 AM	Prep Date	3/1/2005
Client ID:		Run ID:	FID(17A)_2_050302A	SeqNo:	342367						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.037	1	5	0	121	81.2	149	6.318	4.56	23	

Sample ID	GRO Ics 2.5ug	Batch ID	R14694	Test Code	SW8015	Units	mg/L	Analysis Date	2/28/2005 11:51:47 PM	Prep Date	
Client ID:		Run ID:	PIDFID_050228A	SeqNo:	341960						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4676	0.05	0.5	0	93.5	82.6	114	0			

Sample ID	BTEX Ics 100ng	Batch ID	R14694	Test Code	SW8021	Units	µg/L	Analysis Date	2/28/2005 7:52:51 PM	Prep Date	
Client ID:		Run ID:	PIDFID_050228A	SeqNo:	341947						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	39.22	2.5	40	0	98.1	64.5	133	0			
Benzene	20.65	0.5	20	0	103	88.7	114	0			
Toluene	20.68	0.5	20	0	103	89.3	112	0			
Ethylbenzene	20.74	0.5	20	0	104	88.6	113	0			
Xylenes, Total	62.59	0.5	60	0	104	89.4	112	0			

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

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: San Juan Refining
Work Order: 0502248
Project: River Terrace MW#48 & MW#49-2/05

Sample ID: LCS-7503 **Batch ID:** 7503 **Test Code:** SW8310 **Units:** µg/L **Analysis Date:** 3/10/2005 1:03:33 PM **Prep Date:** 3/2/2005
Client ID: HUGO_050309A **Run ID:** HUGO_050309A **SeqNo:** 343910

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	31.38	2.5	40	0	78.5	20.939	111.211	0			
1-Methylnaphthalene	31.63	2.5	40.1	0	78.9	22.016	110.385	0			
2-Methylnaphthalene	30.84	2.5	40	0	77.1	21.098	111.261	0			
Acenaphthylene	30.64	2.5	40.1	0	76.4	23.852	116.857	0			
Acenaphthene	30.97	2.5	40	0	77.4	27.524	111.73	0			
Fluorene	2.86	0.8	4.01	0	71.3	31.046	113.32	0			
Phenanthrene	1.72	0.6	2.01	0	85.6	42.279	115.749	0			
Anthracene	1.63	0.6	2.01	0	81.1	43.767	118.693	0			
Fluoranthene	3.49	0.3	4.01	0	87.0	55.334	117.461	0			
Pyrene	3.6	0.3	4.01	0	89.8	57.722	120.832	0			
Benz(a)anthracene	0.33	0.02	0.401	0	82.3	70.18	113.452	0			
Chrysene	1.56	0.2	2.01	0	77.6	43.942	141.404	0			
Benzo(b)fluoranthene	0.4	0.05	0.501	0	79.8	71.192	103.368	0			
Benzo(k)fluoranthene	0.22	0.02	0.25	0	88.0	75.336	107.209	0			
Benzo(a)pyrene	0.21	0.02	0.251	0	83.7	74.556	100.742	0			
Dibenz(a,h)anthracene	0.48	0.04	0.501	0	95.8	80.693	106.931	0			
Benzo(g,h,i)perylene	0.41	0.03	0.5	0	82.0	55.168	135.014	0			
Indeno(1,2,3-cd)pyrene	0.901	0.08	1.002	0	89.9	79.328	104.794	0			

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

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: San Juan Refining

Work Order: 0502248

Project: River Terrace MW#48 & MW#49-2/05

Sample ID	LCSD-7503	Batch ID: 7503	Test Code: SW8310	Units: µg/L	Analysis Date	3/10/2005 1:51:33 PM	Prep Date	3/2/2005			
Client ID:	Run ID:	HUGO_050309A	SeqNo:	343912							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	34.41	2.5	40	0	86.0	20.939	111.211	31.38	9.21	32.1	
1-Methylnaphthalene	35.01	2.5	40.1	0	87.3	22.016	110.385	31.63	10.1	32.7	
2-Methylnaphthalene	33.77	2.5	40	0	84.4	21.098	111.261	30.84	9.07	34	
Acenaphthylene	34.22	2.5	40.1	0	85.3	23.852	116.857	30.64	11.0	38.8	
Acenaphthene	34.59	2.5	40	0	86.5	27.524	111.73	30.97	11.0	38.6	
Fluorene	3.18	0.8	4.01	0	79.3	31.046	113.32	2.86	10.6	39.3	
Phenanthrene	1.81	0.6	2.01	0	90.0	42.279	115.749	1.72	5.10	25	
Anthracene	1.73	0.6	2.01	0	86.1	43.767	118.693	1.63	5.95	23.9	
Fluoranthene	3.59	0.3	4.01	0	89.5	55.334	117.461	3.49	2.82	15.7	
Pyrene	3.69	0.3	4.01	0	92.0	57.722	120.832	3.6	2.47	15.3	
Benz(a)anthracene	0.35	0.02	0.401	0	87.3	70.18	113.452	0.33	5.88	119	
Chrysene	1.67	0.2	2.01	0	83.1	43.942	141.404	1.56	6.81	16.6	
Benzo(b)fluoranthene	0.41	0.05	0.501	0	81.8	71.192	103.368	0.4	2.47	21.7	
Benzo(k)fluoranthene	0.22	0.02	0.25	0	88.0	75.336	107.209	0.22	0	19.4	
Benzo(a)pyrene	0.21	0.02	0.251	0	83.7	74.556	100.742	0.21	0	16.7	
Dibenz(a,h)anthracene	0.5	0.04	0.501	0	99.8	80.693	106.931	0.48	4.08	17.3	
Benzo(g,h,i)perylene	0.41	0.03	0.5	0	82.0	55.168	135.014	0.41	0	118	
Indeno(1,2,3-cd)pyrene	0.903	0.08	1.002	0	90.1	79.328	104.794	0.901	0.222	17.7	

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR


Date and Time Received:

2/25/2005

Work Order Number 0502248

Received by AT

Checklist completed by


Signature

2/25/05
Date

Matrix

Carrier name UPS

- | | | | | |
|---|---|--|---|--------------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature? | 3° | 4° C ± 2 Acceptable
If given sufficient time to cool. | | |

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____



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

Certified Mail: 7099 3220 001 2242 5259

March 15, 2005

RE: Giant Refining Company, Bloomfield Refiner
EPA ID# NMD089416416
GW - 001

Dear Mr. Price,

This letter is notification that you requested. Giant Refinery – Bloomfield will be collecting semi-annual groundwater samples starting the week of April 4, 2005.

If any representatives from the New Mexico Oil Conservation Division would like to participate, Giant requires all incoming personnel to undergo safety orientation training before entering the plant.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Hurtado".

Cindy Hurtado
Environmental Assistant
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Supervisor – Giant Refining

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505-632-8013
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