

GRCB 05



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



Certified Mail: 7001 1140 0000 4022 0811

May 26, 2005

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

Dear Ms. Monzeglio,

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
 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: 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:	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			

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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: 12-May-05

CLIENT: San Juan Refining
 Work Order: 0505035
 Project: TK #33 Effluent

QC SUMMARY REPORT
 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	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				

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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

G. Schleppe

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: _____

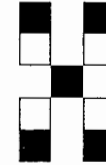
Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA / QC Package:

Std Level 4

Other: _____



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

Client: SAN Juan Refining

Project Name: TK # 33 Effluent

Address: #50 Rd 4990
Bloomfield, NM 87413

Project #:

Project Manager:

Phone #: 505-632-4161

Sampler: Cindy Hurtado

Fax #: 505-632-3911

Sample Temperature: 5

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative			HEAL No.
					HgCl ₂	HNO ₃		
5/04/05	1035A	H ₂ O	TK # 33	2-VOA			HCL	-1
1	1050A	1	FRESH WATER Ponds	2-VOA			HCL	-2

BTEX + MTBE + THB'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 ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)									Air Bubbles on Her (see Y or N)	
X																					
X																					

Date: 5/04/05 Time: 2pm Relinquished By: (Signature) Cindy Hurtado
 Received By: (Signature) [Signature] 5:50 @ 1600
 Date: _____ Time: _____ Relinquished By: (Signature) _____
 Received By: (Signature) _____

Remarks: _____



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:

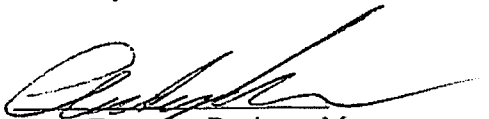
Hall Environmental Analysis Laboratory received 4 samples on 5/5/2005 for the analyses presented in the following report.

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
 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: 0505034-03

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
 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: 0505034-04

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 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
 Work Order: 0505034
 Project: River Terrace - 5/05

QC SUMMARY REPORT
 Method Blank

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

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CLIENT: San Juan Refining
 Work Order: 0505034
 Project: River Terrace - 5/05

QC SUMMARY REPORT

Method Blank

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: 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-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	7.16	0	10	0	71.6	54	102	0			

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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

CLIENT: San Juan Refining
 Work Order: 0505034
 Project: River Terrace - 5/05

QC SUMMARY REPORT
 Sample Matrix Spike

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:	SW8021	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

7/11

CLIENT: San Juan Refining
Work Order: 0505034
Project: River Terrace - 5/05

QC SUMMARY REPORT
 Sample Matrix Spike Duplicate

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
0505034-03a msd	R15328	SW8021	µg/L	5/9/2005 12:45:57 PM							
Client ID	Run ID	SeqNo									
River Near MW-49	PIDFID_050509A	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	88.7	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	88.6	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	

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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

CLIENT: San Juan Refining
 Work Order: 0505034
 Project: River Terrace - 5/05

QC SUMMARY REPORT
 Laboratory Control Spike - generic

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			

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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

CLIENT: San Juan Refining
 Work Order: 0505034
 Project: River Terrace - 5/05

QC SUMMARY REPORT
 Laboratory Control Spike - generic

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	46.3	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] Date 5-5-05

Matrix Carrier name UPS

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

Accreditation Applied:
 NELAC USACE

Other: _____

Client: SAN Juan Refining Co

Project Name: River Terrace - 5/05

Address: #50 Rd 4990
Bloomfield, NM 87413

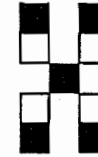
Project #: _____
 Project Manager: _____

Phone # 505-632-4161

Sampler: Cindy Hurtado

Fax #: 505-632-3911

Sample Temperature: 5



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

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.	BTEX + MTBE + FMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PMA or PAH)	PCPA 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)	
					HgCl ₂	HNO ₃															
5/04/05	10AM	H ₂ O	MW# 48	2-VOA		HCL	-1	X													
5/04/05				2-VOA		HCL	-1			+											
				1-liter		Anker	-1							X							
5/04/05	920AM	H ₂ O	MW# 49	2-VOA		HCL	-2	X													
				2-VOA		HCL	-2			X											
				1-liter		Anker	-2							X							
5/04/05	935A	H ₂ O	River NEAR MW#49	2-VOA		HCL	-3	X													
			trip blank	2-VOA		HCL	-4														

Date: 5/04/05 Time: 2pm
 Relinquished By: (Signature) Cindy Hurtado

Received By: (Signature) [Signature] 5-5-05
 Received By: (Signature) [Signature] 1555

Remarks: _____