

GRCB05



ENTERED

GIANT
REFINING COMPANY

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



Certified Mail: 7004 2510 0005 1641 4637

October 31, 2005

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

Dear Ms. Monzeglio,

Please find attached analytical results for the September 21, 2005 and October 4, 2005 sampling events for wells MW #48 and MW #49 located on the river terrace at the Giant Refining-Bloomfield 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 28 ug/L for September and 13 ug/L for October. BTEX samples were taken out of the San Juan River adjacent to MW #49 during each sampling event. The results of both of those samples were non detect. 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 Coordinator
Giant Refining – Bloomfield

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

COVER LETTER

October 12, 2005

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

RE: River Terrace 9/05

Order No.: 0509241

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,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 12-Oct-05

CLIENT: San Juan Refining
 Lab Order: 0509241
 Project: River Terrace 9/05
 Lab ID: 0509241-01

Client Sample ID: MW #48
 Collection Date: 9/21/2005 2:30:00 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	9/29/2005 3:19:47 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/29/2005 3:19:47 AM
Surr: DNOP	131	58-140		%REC	1	9/29/2005 3:19:47 AM
EPA METHOD 8015B: GASOLINE RANGE						
						Analyst: NSB
Gasoline Range Organics (GRO)	21	2.0		mg/L	40	9/24/2005 12:11:43 AM
Surr: BFB	116	79.7-118		%REC	40	9/24/2005 12:11:43 AM
EPA METHOD 8021B: VOLATILES						
						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	40	9/24/2005 12:11:43 AM
Benzene	500	20		µg/L	40	9/24/2005 12:11:43 AM
Toluene	ND	20		µg/L	40	9/24/2005 12:11:43 AM
Ethylbenzene	1400	20		µg/L	40	9/24/2005 12:11:43 AM
Xylenes, Total	7500	20		µg/L	40	9/24/2005 12:11:43 AM
Surr: 4-Bromofluorobenzene	108	82.2-119		%REC	40	9/24/2005 12:11:43 AM
EPA METHOD 8310: PAHS						
						Analyst: JMP
Naphthalene	120	2.5		µg/L	1	10/4/2005 7:43:52 PM
1-Methylnaphthalene	38	2.5		µg/L	1	10/4/2005 7:43:52 PM
2-Methylnaphthalene	42	2.5		µg/L	1	10/4/2005 7:43:52 PM
Acenaphthylene	ND	2.5		µg/L	1	10/4/2005 7:43:52 PM
Acenaphthene	ND	2.5		µg/L	1	10/4/2005 7:43:52 PM
Fluorene	ND	0.80		µg/L	1	10/4/2005 7:43:52 PM
Phenanthrene	1.4	0.60		µg/L	1	10/4/2005 7:43:52 PM
Anthracene	ND	0.60		µg/L	1	10/4/2005 7:43:52 PM
Fluoranthene	ND	0.30		µg/L	1	10/4/2005 7:43:52 PM
Pyrene	ND	0.30		µg/L	1	10/4/2005 7:43:52 PM
Benz(a)anthracene	ND	0.020		µg/L	1	10/4/2005 7:43:52 PM
Chrysene	ND	0.20		µg/L	1	10/4/2005 7:43:52 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	10/4/2005 7:43:52 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	10/4/2005 7:43:52 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	10/4/2005 7:43:52 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	10/4/2005 7:43:52 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	10/4/2005 7:43:52 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	10/4/2005 7:43:52 PM
Surr: Benzo(e)pyrene	58.7	54-102		%REC	1	10/4/2005 7:43:52 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: 12-Oct-05

CLIENT: San Juan Refining
 Lab Order: 0509241
 Project: River Terrace 9/05
 Lab ID: 0509241-02

Client Sample ID: MW #49
 Collection Date: 9/21/2005 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	9/29/2005 3:52:51 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/29/2005 3:52:51 AM
Surr: DNOP	118	58-140		%REC	1	9/29/2005 3:52:51 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.52	0.050		mg/L	1	9/24/2005 1:13:01 AM
Surr: BFB	114	79.7-118		%REC	1	9/24/2005 1:13:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	9/24/2005 1:13:01 AM
Benzene	28	0.50		µg/L	1	9/24/2005 1:13:01 AM
Toluene	ND	0.50		µg/L	1	9/24/2005 1:13:01 AM
Ethylbenzene	15	0.50		µg/L	1	9/24/2005 1:13:01 AM
Xylenes, Total	2.6	0.50		µg/L	1	9/24/2005 1:13:01 AM
Surr: 4-Bromofluorobenzene	105	82.2-119		%REC	1	9/24/2005 1:13:01 AM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	4.0	2.5		µg/L	1	10/4/2005 8:31:52 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	10/4/2005 8:31:52 PM
2-Methylnaphthalene	ND	2.5		µg/L	1	10/4/2005 8:31:52 PM
Acenaphthylene	ND	2.5		µg/L	1	10/4/2005 8:31:52 PM
Acenaphthene	ND	2.5		µg/L	1	10/4/2005 8:31:52 PM
Fluorene	ND	0.80		µg/L	1	10/4/2005 8:31:52 PM
Phenanthrene	ND	0.60		µg/L	1	10/4/2005 8:31:52 PM
Anthracene	ND	0.60		µg/L	1	10/4/2005 8:31:52 PM
Fluoranthene	ND	0.30		µg/L	1	10/4/2005 8:31:52 PM
Pyrene	ND	0.30		µg/L	1	10/4/2005 8:31:52 PM
Benz(a)anthracene	ND	0.020		µg/L	1	10/4/2005 8:31:52 PM
Chrysene	ND	0.20		µg/L	1	10/4/2005 8:31:52 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	10/4/2005 8:31:52 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	10/4/2005 8:31:52 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	10/4/2005 8:31:52 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	10/4/2005 8:31:52 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	10/4/2005 8:31:52 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	10/4/2005 8:31:52 PM
Surr: Benzo(e)pyrene	73.7	54-102		%REC	1	10/4/2005 8:31:52 PM

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

Hall Environmental Analysis Laboratory

Date: 12-Oct-05

CLIENT: San Juan Refining
 Lab Order: 0509241
 Project: River Terrace 9/05
 Lab ID: 0509241-03

Client Sample ID: River Near MW #49
 Collection Date: 9/21/05 1:50:00 PM

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	9/24/2005 1:43:46 AM
Benzene	ND	0.50		µg/L	1	9/24/2005 1:43:46 AM
Toluene	ND	0.50		µg/L	1	9/24/2005 1:43:46 AM
Ethylbenzene	ND	0.50		µg/L	1	9/24/2005 1:43:46 AM
Xylenes, Total	ND	0.50		µg/L	1	9/24/2005 1:43:46 AM
Surr: 4-Bromofluorobenzene	95.6	82.2-119		%REC	1	9/24/2005 1:43:46 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: 12-Oct-05

CLIENT: San Juan Refining
 Work Order: 0509241
 Project: River Terrace 9/05

QC SUMMARY REPORT
 Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-8838	8838	SW8015	mg/L	9/29/2005 1:40:35 AM	9/28/2005						
Client ID:		Run ID: FID(17A) 2_050928A		SeqNo: 405070							
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	1.185	0	1	0	118	58	140	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
Reagent Blank 5m	R16759	SW8015	mg/L	9/23/2005 9:37:19 AM							
Client ID:		Run ID: PIDFID_050923A		SeqNo: 403505							
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	19.6	0	20	0	98.0	79.7	118	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
Reagent Blank 5m	R16759	SW8021	µg/L	9/23/2005 9:37:19 AM							
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
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	18.66	0	20	0	93.3	82.2	119	0			

4 / 10

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: 0509241
 Project: River Terrace 9/05

QC SUMMARY REPORT
 Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-8824	8824	SW8310	µg/L	10/4/2005 4:31:50 PM	9/27/2005						
Client ID:		Run ID:	HUGO_051004A	SeqNo:	408193						
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	7.38	0	10	0	73.8	54	102	0			

5 / 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: 12-Oct-05

CLIENT: San Juan Refining
 Work Order: 0509241
 Project: River Terrace 9/05

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
0509241-02a ms	R16759	SW8015	mg/L	9/24/2005 2:14:18 AM							
Client ID: MW #49		Run ID: PIDFID_050923A		SeqNo: 403557							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.9974	0.05	0.5	0.5154	96.4	82.6	114	0			
Surr: BFB	26.91	0	25	0	108	79.7	118	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
0509241-02a msd	R16759	SW8015	mg/L	9/24/2005 2:45:00 AM							
Client ID: MW #49		Run ID: PIDFID_050923A		SeqNo: 403559							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.018	0.05	0.5	0.5154	100	82.6	114	0.9974	2.00	8.39	
Surr: BFB	28.25	0	25	0	113	79.7	118	26.91	4.86	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: 12-Oct-05

CLIENT: San Juan Refining
 Work Order: 0509241
 Project: River Terrace 9/05

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID	LCS-8838	Batch ID:	8838	Test Code:	SW8015	Units:	mg/L	Analysis Date	9/29/2005 2:13:42 AM	Prep Date	9/28/2005	
Client ID:		Run ID:	FID(17A) 2_050928A	SeqNo:	405071							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		5.069	1	5	0	101	81.2	149	0			

Sample ID	LCSD-8838	Batch ID:	8838	Test Code:	SW8015	Units:	mg/L	Analysis Date	9/29/2005 2:46:45 AM	Prep Date	9/28/2005	
Client ID:		Run ID:	FID(17A) 2_050928A	SeqNo:	405072							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		4.893	1	5	0	97.9	81.2	149	5.069	3.54	23	

7/10

Sample ID	GRO lcs 2.5ug	Batch ID:	R16759	Test Code:	SW8015	Units:	mg/L	Analysis Date	9/24/2005 5:18:23 AM	Prep Date		
Client ID:		Run ID:	PIDFID_050923A	SeqNo:	403521							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		0.5116	0.05	0.5	0	102	82.6	114	0			

Sample ID	BTEX lcs 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	SeqNo:	403402							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)		23.97	2.5	20	0	120	64.5	133	0			
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 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: 0509241
 Project: River Terrace 9/05

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date							
LCS-8824	8824	SW8310	µg/L	10/4/2005 5:19:51 PM	9/27/2005							
Client ID	Run ID	SeqNo										
	HUGO_051004A	408197										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Naphthalene	22.79	2.5	40	0	57.0	34.8	97.4	0				
1-Methylnaphthalene	23.37	2.5	40.1	0	58.3	34.7	100	0				
2-Methylnaphthalene	23.13	2.5	40	0	57.8	35	98.1	0				
Acenaphthylene	26.43	2.5	40.1	0	65.9	48.3	95.1	0				
Acenaphthene	25.12	2.5	40	0	62.8	45	95	0				
Fluorene	2.6	0.8	4.01	0	64.8	46.8	93.4	0				
Phenanthrene	1.35	0.6	2.01	0	67.2	48.7	104	0				
Anthracene	1.38	0.6	2.01	0	68.7	47.5	102	0				
Fluoranthene	3.02	0.3	4.01	0	75.3	46.3	108	0				
Pyrene	3.09	0.3	4.01	0	77.1	43.8	109	0				
Benz(a)anthracene	0.31	0.02	0.401	0	77.3	40.3	115	0				
Chrysene	1.47	0.2	2.01	0	73.1	42.6	107	0				
Benzo(b)fluoranthene	0.38	0.05	0.501	0	75.8	48.6	107	0				
Benzo(k)fluoranthene	0.19	0.02	0.25	0	76.0	23.3	136	0				
Benzo(a)pyrene	0.19	0.02	0.251	0	75.7	33.4	117	0				
Dibenz(a,h)anthracene	0.38	0.04	0.501	0	75.8	27.3	139	0				
Benzo(g,h,i)perylene	0.37	0.03	0.5	0	74.0	38.2	117	0				
Indeno(1,2,3-cd)pyrene	0.878	0.08	1.002	0	87.6	39.9	125	0				

8 / 10

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: 0509241
 Project: River Terrace 9/05

QC SUMMARY REPORT
 Laboratory Control Spike Duplicate

Sample ID LCSD-8824 Batch ID: 8824 Test Code: SW8310 Units: µg/L Analysis Date 10/4/2005 6:07:51 PM Prep Date 9/27/2005
 Client ID: Run ID: HUGO_051004A SeqNo: 408198

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	22.62	2.5	40	0	56.6	34.8	97.4	22.79	0.749	32.1	
1-Methylnaphthalene	23.51	2.5	40.1	0	58.6	34.7	100	23.37	0.597	32.7	
2-Methylnaphthalene	23.59	2.5	40	0	59.0	35	98.1	23.13	1.97	34	
Acenaphthylene	26.58	2.5	40.1	0	66.3	48.3	95.1	26.43	0.558	38.8	
Acenaphthene	25.23	2.5	40	0	63.1	45	95	25.12	0.437	38.6	
Fluorene	2.65	0.8	4.01	0	66.1	46.8	93.4	2.6	1.90	39.3	
Phenanthrene	1.46	0.6	2.01	0	72.6	48.7	104	1.35	7.83	25	
Anthracene	1.47	0.6	2.01	0	73.1	47.5	102	1.38	6.32	23.9	
Fluoranthene	3.43	0.3	4.01	0	85.5	46.3	108	3.02	12.7	15.7	
Pyrene	3.41	0.3	4.01	0	85.0	43.8	109	3.09	9.85	15.3	
Benz(a)anthracene	0.35	0.02	0.401	0	87.3	40.3	115	0.31	12.1	119	
Chrysene	1.66	0.2	2.01	0	82.6	42.6	107	1.47	12.1	16.6	
Benzo(b)fluoranthene	0.47	0.05	0.501	0	93.8	48.6	107	0.38	21.2	21.7	
Benzo(k)fluoranthene	0.21	0.02	0.25	0	84.0	23.3	136	0.19	10.0	19.4	
Benzo(a)pyrene	0.21	0.02	0.251	0	83.7	33.4	117	0.19	10.0	16.7	
Dibenz(a,h)anthracene	0.45	0.04	0.501	0	89.8	27.3	139	0.38	16.9	17.3	
Benzo(g,h,i)perylene	0.41	0.03	0.5	0	82.0	38.2	117	0.37	10.3	118	
Indeno(1,2,3-cd)pyrene	0.938	0.08	1.002	0	93.6	39.9	125	0.878	6.61	17.7	

9 / 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

Sample Receipt Checklist

Client Name SJR

Date and Time Received:

9/22/2005

Work Order Number 0509241

Received by SSB

Checklist completed by

Signature *[Handwritten Signature]*

Date 9/22/05

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? 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

QA/QC Package:
 Std Level 4
 Other: _____

Client: SAN Juan Refining

Project Name: River Terrace - 9/05

Address: #50 CR 4990
Bloomfield, NM
87413

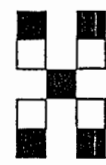
Project #: _____
 Project Manager: _____

Phone #: 505-632-4161

Sampler: Cindy Hurtado/Angela Folk

Fax #: 505-632-3911

Sample Temperature: 6



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. ⁶³	BTEX + MTBE + THMs (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 418.1 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)	
					HgCl ₂	HNO ₃															
9/21/05	2:30pm	H ₂ O	MW # 48	2-VOA	X		05781240 -1	X													
				2-VOA	X		-1			X											
				1-liter		Amber	-1							X							
9/21/05	2pm	H ₂ O	MW # 49	2-VOA	X		-2	X													
				2-VOA	X		-2			X											
				1-liter		Amber	-2							X							
9/21/05	1:50pm	H ₂ O	River Near MW #49	2-VOA	X		-3	X													

Date: 9/21/05 Time: 3:35pm
 Relinquished By: (Signature) Cindy Hurtado

Received By: (Signature) [Signature]
 Received By: (Signature) 9/22/05
13:10

Remarks: UPS

COVER LETTER

October 27, 2005

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

RE: River Terrace - 10/05

Order No.: 0510030

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 3 samples on 10/5/2005 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: 27-Oct-05

CLIENT: San Juan Refining
 Lab Order: 0510030
 Project: River Terrace - 10/05
 Lab ID: 0510030-01

Client Sample ID: MW #48
 Collection Date: 10/4/2005 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)	1.9	1.0		mg/L	1	10/12/2005 5:27:54 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/12/2005 5:27:54 AM
Surr: DNOP	126	58-140		%REC	1	10/12/2005 5:27:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	10	2.0		mg/L	40	10/6/2005 11:39:05 PM
Surr: BFB	107	79.7-118		%REC	40	10/6/2005 11:39:05 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HLM
Benzene	310	20		µg/L	20	10/15/2005
Toluene	ND	20		µg/L	20	10/15/2005
Ethylbenzene	970	20		µg/L	20	10/15/2005
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	10/15/2005
Xylenes, Total	4200	20		µg/L	20	10/15/2005
Surr: 4-Bromofluorobenzene	103	71.2-123		%REC	20	10/15/2005
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	86	2.5		µg/L	1	10/25/2005 7:14:47 PM
1-Methylnaphthalene	40	2.5		µg/L	1	10/25/2005 7:14:47 PM
2-Methylnaphthalene	39	2.5		µg/L	1	10/25/2005 7:14:47 PM
Acenaphthylene	ND	2.5		µg/L	1	10/25/2005 7:14:47 PM
Acenaphthene	ND	2.5		µg/L	1	10/25/2005 7:14:47 PM
Fluorene	1.6	0.80		µg/L	1	10/25/2005 7:14:47 PM
Phenanthrene	2.9	0.60		µg/L	1	10/25/2005 7:14:47 PM
Anthracene	ND	0.60		µg/L	1	10/25/2005 7:14:47 PM
Fluoranthene	ND	0.30		µg/L	1	10/25/2005 7:14:47 PM
Pyrene	ND	0.30		µg/L	1	10/25/2005 7:14:47 PM
Benz(a)anthracene	ND	0.020		µg/L	1	10/25/2005 7:14:47 PM
Chrysene	ND	0.20		µg/L	1	10/25/2005 7:14:47 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	10/25/2005 7:14:47 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	10/25/2005 7:14:47 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	10/25/2005 7:14:47 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	10/25/2005 7:14:47 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	10/25/2005 7:14:47 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	10/25/2005 7:14:47 PM
Surr: Benzo(e)pyrene	78.4	54-102		%REC	1	10/25/2005 7:14:47 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: 27-Oct-05

CLIENT: San Juan Refining
 Lab Order: 0510030
 Project: River Terrace - 10/05
 Lab ID: 0510030-02

Client Sample ID: MW #49
 Collection Date: 10/4/2005 2:45:00 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	10/12/2005 6:00:20 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/12/2005 6:00:20 AM
Surr: DNOP	114	58-140		%REC	1	10/12/2005 6:00:20 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.44	0.050		mg/L	1	10/7/2005 12:09:58 AM
Surr: BFB	105	79.7-118		%REC	1	10/7/2005 12:09:58 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HLM
Benzene	13	1.0		µg/L	1	10/15/2005
Toluene	ND	1.0		µg/L	1	10/15/2005
Ethylbenzene	8.4	1.0		µg/L	1	10/15/2005
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/15/2005
Xylenes, Total	1.7	1.0		µg/L	1	10/15/2005
Surr: 4-Bromofluorobenzene	104	71.2-123		%REC	1	10/15/2005
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	ND	2.5		µg/L	1	10/25/2005 8:02:47 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	10/25/2005 8:02:47 PM
2-Methylnaphthalene	ND	2.5		µg/L	1	10/25/2005 8:02:47 PM
Acenaphthylene	ND	2.5		µg/L	1	10/25/2005 8:02:47 PM
Acenaphthene	ND	2.5		µg/L	1	10/25/2005 8:02:47 PM
Fluorene	ND	0.80		µg/L	1	10/25/2005 8:02:47 PM
Phenanthrene	ND	0.60		µg/L	1	10/25/2005 8:02:47 PM
Anthracene	ND	0.60		µg/L	1	10/25/2005 8:02:47 PM
Fluoranthene	ND	0.30		µg/L	1	10/25/2005 8:02:47 PM
Pyrene	ND	0.30		µg/L	1	10/25/2005 8:02:47 PM
Benz(a)anthracene	ND	0.020		µg/L	1	10/25/2005 8:02:47 PM
Chrysene	ND	0.20		µg/L	1	10/25/2005 8:02:47 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	10/25/2005 8:02:47 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	10/25/2005 8:02:47 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	10/25/2005 8:02:47 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	10/25/2005 8:02:47 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	10/25/2005 8:02:47 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	10/25/2005 8:02:47 PM
Surr: Benzo(e)pyrene	71.5	54-102		%REC	1	10/25/2005 8:02:47 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: 27-Oct-05

CLIENT: San Juan Refining

Client Sample ID: River Near MW #49

Lab Order: 0510030

Collection Date: 10/4/2005 2:20:00 PM

Project: River Terrace - 10/05

Lab ID: 0510030-03

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HLM
Benzene	ND	1.0		µg/L	1	10/15/2005
Toluene	ND	1.0		µg/L	1	10/15/2005
Ethylbenzene	ND	1.0		µg/L	1	10/15/2005
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/15/2005
Xylenes, Total	ND	1.0		µg/L	1	10/15/2005
Surr: 4-Bromofluorobenzene	101	71.2-123		%REC	1	10/15/2005

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: 27-Oct-05

CLIENT: San Juan Refining
 Work Order: 0510030
 Project: River Terrace - 10/05

QC SUMMARY REPORT
 Method Blank

Sample ID	MB-8920	Batch ID:	8920	Test Code:	SW8015	Units:	mg/L	Analysis Date	10/12/2005 3:50:30 AM	Prep Date	10/10/2005
Client ID:		Run ID:	FID(17A) 2_051011A	SeqNo:	410318						
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	1.138	0	1	0	114	58	140	0			

Sample ID	Reagent Blank 5m	Batch ID:	R16883	Test Code:	SW8015	Units:	mg/L	Analysis Date	10/6/2005 9:37:03 AM	Prep Date	
Client ID:		Run ID:	PIDFID_051006A	SeqNo:	408430						
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	20.98	0	20	0	105	79.7	118	0			

Sample ID	Reagent Blank 5m	Batch ID:	R16841	Test Code:	SW8015	Units:	mg/L	Analysis Date	10/12/2005 10:20:04 A	Prep Date	
Client ID:		Run ID:	PIDFID_051012A	SeqNo:	410774						
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	19.37	0	20	0	96.8	79.7	118	0			

4/11

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: 0510030
 Project: River Terrace - 10/05

QC SUMMARY REPORT
 Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-8919	8919	SW8310	µg/L	10/25/2005 2:26:46 PM	10/10/2005						
Client ID:		Run ID: HUGO_051025A		SeqNo: 415023							
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	7.45	0	10	0	74.5	54	102	0			

5/11

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: 27-Oct-05

CLIENT: San Juan Refining
 Work Order: 0510030
 Project: River Terrace - 10/05

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
5ml rb	R16972	SW8260B	µg/L	10/14/2005							
Client ID:		Run ID: VAL_051014A		SeqNo: 411560							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1									
Toluene	0.18	1									J
Ethylbenzene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	1									
Xylenes, Total	ND	1									
Surr: 4-Bromofluorobenzene	10.43	0	10	0	104	71.2	123	0			

6 / 11

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: 27-Oct-05

CLIENT: San Juan Refining
 Work Order: 0510030
 Project: River Terrace - 10/05

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
0510030-02a ms	R16883	SW8015	mg/L	10/7/2005 12:41:33 AM							
Client ID: MW #49		Run ID: PIDFID_051006A		SeqNo: 408440							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.9176	0.05	0.5	0.435	96.5	82.6	114	0			
Surr: BFB	26.28	0	25	0	105	79.7	118	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
0510030-02a msd	R16883	SW8015	mg/L	10/7/2005 1:12:28 AM							
Client ID: MW #49		Run ID: PIDFID_051006A		SeqNo: 408441							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.8692	0.05	0.5	0.435	86.8	82.6	114	0.9176	5.42	8.39	
Surr: BFB	24.23	0	25	0	96.9	79.7	118	26.28	8.08	0	

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
0510030-02a ms	R16972	SW8260B	µg/L	10/15/2005							
Client ID: MW #49		Run ID: VAL_051014A		SeqNo: 411562							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	32.27	1	20	13.48	94.0	80	130	0			
Toluene	19.03	1	20	0.184	94.2	77	121	0			
Surr: 4-Bromofluorobenzene	10.75	0	10	0	108	71.2	123	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
0510030-02a msd	R16972	SW8260B	µg/L	10/15/2005							
Client ID: MW #49		Run ID: VAL_051014A		SeqNo: 411563							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	35.6	1	20	13.48	111	80	130	32.27	9.81	15	
Toluene	17.63	1	20	0.184	87.2	77	121	19.03	7.62	14	
Surr: 4-Bromofluorobenzene	10.82	0	10	0	108	71.2	123	10.75	0.575	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

7/11

Hall Environmental Analysis Laboratory

Date: 27-Oct-05

CLIENT: San Juan Refining
 Work Order: 0510030
 Project: River Terrace - 10/05

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID	LCS-8920	Batch ID:	8920	Test Code:	SW8015	Units:	mg/L	Analysis Date	10/12/2005 4:23:00 AM	Prep Date	10/10/2005			
Client ID:		Run ID:	FID(17A)_2_051011A	SeqNo:	410319									
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		5.698		1	5	0		114	81.2	149	0			

Sample ID	LCSD-8920	Batch ID:	8920	Test Code:	SW8015	Units:	mg/L	Analysis Date	10/12/2005 4:55:25 AM	Prep Date	10/10/2005			
Client ID:		Run ID:	FID(17A)_2_051011A	SeqNo:	410320									
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		5.938		1	5	0		119	81.2	149	5.698	4.13	23	

8 / 11

Sample ID	GRO lcs 2.5ug	Batch ID:	R16883	Test Code:	SW8015	Units:	mg/L	Analysis Date	10/7/2005 2:14:40 AM	Prep Date				
Client ID:		Run ID:	PIDFID_051006A	SeqNo:	408442									
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			

Sample ID	GRO lcs 2.5ug	Batch ID:	R16941	Test Code:	SW8015	Units:	mg/L	Analysis Date	10/13/2005 3:56:06 AM	Prep Date				
Client ID:		Run ID:	PIDFID_051012A	SeqNo:	410775									
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		0.498		0.05	0.5	0		99.6	82.6	114	0			

Sample ID	100ng lcs	Batch ID:	R16972	Test Code:	SW8260B	Units:	µg/L	Analysis Date	10/14/2005	Prep Date				
Client ID:		Run ID:	VAL_051014A	SeqNo:	411561									
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		20.28		1	20	0		101	80	130	0			
Toluene		19.35		1	20	0.18		95.9	77	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

CLIENT: San Juan Refining
 Work Order: 0510030
 Project: River Terrace - 10/05

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-8919	8919	SW8310	µg/L	10/25/2005 3:14:46 PM	10/10/2005						
Client ID:	Run ID:	HUGO_051025A		SeqNo:	415102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	24.1	2.5	40	0	60.3	34.8	97.4	0			
1-Methylnaphthalene	24.32	2.5	40.1	0	60.6	34.7	100	0			
2-Methylnaphthalene	24.31	2.5	40	0	60.8	35	98.1	0			
Acenaphthylene	25.04	2.5	40.1	0	62.4	48.3	95.1	0			
Acenaphthene	25.47	2.5	40	0	63.7	45	95	0			
Fluorene	2.62	0.8	4.01	0	65.3	46.8	93.4	0			
Phenanthrene	1.43	0.6	2.01	0	71.1	48.7	104	0			
Anthracene	1.39	0.6	2.01	0	69.2	47.5	102	0			
Fluoranthene	2.92	0.3	4.01	0	72.8	46.3	108	0			
Pyrene	2.72	0.3	4.01	0	67.8	43.8	109	0			
Benz(a)anthracene	0.29	0.02	0.401	0	72.3	40.3	115	0			
Chrysene	1.4	0.2	2.01	0	69.7	42.6	107	0			
Benzo(b)fluoranthene	0.34	0.05	0.501	0	67.9	48.6	107	0			
Benzo(k)fluoranthene	0.18	0.02	0.25	0	72.0	23.3	136	0			
Benzo(a)pyrene	0.18	0.02	0.251	0	71.7	33.4	117	0			
Dibenz(a,h)anthracene	0.38	0.04	0.501	0	75.8	27.3	139	0			
Benzo(g,h,i)perylene	0.23	0.03	0.5	0	46.0	38.2	117	0			
Indeno(1,2,3-cd)pyrene	0.779	0.08	1.002	0	77.7	39.9	125	0			

9 / 11

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: 0510030
 Project: River Terrace - 10/05

QC SUMMARY REPORT
 Laboratory Control Spike Duplicate

Sample ID LCSD-8919 Batch ID: 8919 Test Code: SW8310 Units: µg/L Analysis Date 10/25/2005 4:02:47 PM Prep Date 10/10/2005
 Client ID: Run ID: HUGO_051025A SeqNo: 415104

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	28.45	2.5	40	0	71.1	34.8	97.4	24.1	16.6	32.1	
1-Methylnaphthalene	29.46	2.5	40.1	0	73.5	34.7	100	24.32	19.1	32.7	
2-Methylnaphthalene	29.28	2.5	40	0	73.2	35	98.1	24.31	18.5	34	
Acenaphthylene	29.95	2.5	40.1	0	74.7	48.3	95.1	25.04	17.9	38.8	
Acenaphthene	30.52	2.5	40	0	76.3	45	95	25.47	18.0	38.6	
Fluorene	3.16	0.8	4.01	0	78.8	46.8	93.4	2.62	18.7	39.3	
Phenanthrene	1.63	0.6	2.01	0	81.1	48.7	104	1.43	13.1	25	
Anthracene	1.62	0.6	2.01	0	80.6	47.5	102	1.39	15.3	23.9	
Fluoranthene	3.24	0.3	4.01	0	80.8	46.3	108	2.92	10.4	15.7	
Pyrene	3.31	0.3	4.01	0	82.5	43.8	109	2.72	19.6	15.3	R
Benz(a)anthracene	0.33	0.02	0.401	0	82.3	40.3	115	0.29	12.9	119	
Chrysene	1.47	0.2	2.01	0	73.1	42.6	107	1.4	4.88	16.6	
Benzo(b)fluoranthene	0.39	0.05	0.501	0	77.8	48.6	107	0.34	13.7	21.7	
Benzo(k)fluoranthene	0.2	0.02	0.25	0	80.0	23.3	136	0.18	10.5	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	0.41	0.04	0.501	0	81.8	27.3	139	0.38	7.59	17.3	
Benzo(g,h,i)perylene	0.24	0.03	0.5	0	48.0	38.2	117	0.23	4.26	118	
Indeno(1,2,3-cd)pyrene	0.614	0.08	1.002	0	61.3	39.9	125	0.779	23.7	17.7	R

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:

10/5/2005

Work Order Number 0510030

Received by AT

Checklist completed by

Signature

Date

10/5/05

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? 3° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

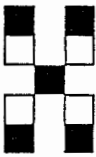
Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA/QC Package:
 Std Level 4
 Other: _____

Client: SAN Juan Refining
 Address: #50 CR 4990
Bloomfield, NM
87413
 Phone #: 505-632-4161
 Fax #: 505-632-3911

Project Name: River Terrace- 10/05
 Project #:
 Project Manager:
 Sampler: Cindy Huntado/Angela Folk
 Sample Temperature: 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

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.	BTEX + MTBE + THPs (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PAH or PAH)	RCRA B 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															
10/04/05	2PM	H ₂ O	MW# 48	2+VOA	X		0510030	X													
				2-VOA	X		-1			X											
				1-liter			Amber							X							
10/04/05	2:45 PM	H ₂ O	MW# 49	2-VOA	X		-2	X													
				2-VOA	X		-2			X											
				1-liter			Amber							X							
10/04/05	2:20pm	H ₂ O	River Near MW# 49	2-VOA	X		-3	X													

Date: 10/04/05 Time: 3pm Relinquished By: (Signature) Cindy Huntado
 Date: _____ Time: _____ Relinquished By: (Signature) _____
 Received By: (Signature) John Show 10/5/05
 Received By: (Signature) _____ 1/30

Remarks: