

GRCBOS ENTERED



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



Certified Mail: 7099 3220 0010 2242 5280

March 31, 2005

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

Dear Ms. Monzeglio,

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,

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,

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: 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 |
| Benz(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

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

Page 1 of 2

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
 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
 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: | | Run 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: | | Run 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: | | Run 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 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

3 / 10

CLIENT: San Juan Refining
Work Order: 0502248
Project: River Terrace MW#48 & MW#49-2/05

QC SUMMARY REPORT
 Method Blank

| Sample ID | Batch ID | Test Code | Units | Analysis Date | Prep Date | | | | | | |
|------------------------|----------|-----------|--------------|-----------------------|-----------|----------|-----------|-------------|------|----------|------|
| MB-7503 | 7503 | SW8310 | µg/L | 3/10/2005 12:15:33 PM | 3/2/2005 | | | | | | |
| Client ID: | | Run ID: | HUGO_050309A | SeqNo: | 343907 | | | | | | |
| 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 | 7.67 | 0 | 10 | 0 | 76.7 | 54 | 102 | 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

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 | Batch ID | Test Code | Units | Analysis Date | Prep Date | | | | | | |
|-------------------------------|----------|------------------------|-----------|----------------------|-----------|----------|-----------|-------------|------|----------|------|
| 0502248-02a ms | R14694 | SW8015 | mg/L | 2/28/2005 5:53:11 PM | | | | | | | |
| 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 | Batch ID | Test Code | Units | Analysis Date | Prep Date | | | | | | |
|-------------------------------|----------|------------------------|-----------|----------------------|-----------|----------|-----------|-------------|-------|----------|------|
| 0502248-02a msd | R14694 | SW8015 | mg/L | 2/28/2005 6:23:07 PM | | | | | | | |
| 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 | Batch ID | Test Code | Units | Analysis Date | Prep Date | | | | | | |
|--------------------------------|----------|------------------------|-----------|----------------------|-----------|----------|-----------|-------------|------|----------|------|
| 0502248-02a ms | R14694 | SW8021 | µg/L | 2/28/2005 6:53:02 PM | | | | | | | |
| 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 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

5 / 10

CLIENT: San Juan Refining
Work Order: 0502248
Project: River Terrace MW#48 & MW#49-2/05

QC SUMMARY REPORT
 Sample Matrix Spike Duplicate

| 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 | 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 | |

6 / 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

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 | LCSD-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

7 / 10

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-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: | | | 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 | | | | |

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: 0502248
Project: River Terrace MW#48 & MW#49-2/05

QC SUMMARY REPORT
 Laboratory Control Spike Duplicate

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 | |

9 / 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

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

Date

2/25/05

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? | <u>3°</u> | <i>4° C ± 2 Acceptable</i> 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 - MW#48 & MW#49 - 2/05

Address: #50 CR 4990
Bloomfield, NM 87413

Project #: _____

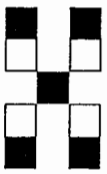
Project Manager: _____

Phone #: 505-632-4161

Fax #: 505-632-3911

Sampler: Cindy Hurtado

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 + TPH (8021) | BTEX + MTBE + TPH (Gasoline Only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | EDC (Method 8021) | 8316 PAH PAH | RCRA 8 Metals | Anions (F, Cl, NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / PCB's (8082) | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles on H ₂ O (Y or N) | |
|---------|------|------------------|-----------------|---------------|-------------------|------------------|-----------|-------------------------------------|-----------------------------------|-------------------------------|--------------------|--------------------|-------------------|-------------------------|---------------|--|--------------------------------|-------------|-----------------|--|--|
| | | | | | HgCl ₂ | HNO ₃ | | | | | | | | | | | | | | | |
| 2/24/05 | 950A | H ₂ O | MW #48 | 2-VOA | X | | 0502248-1 | X | | | | | | | | | | | | | |
| | | | | 2-VOA | X | | | | | X | | | | | | | | | | | |
| | | | | 1-liter | | | Amber | | | | | | | X | | | | | | | |
| 2/24/05 | 910A | H ₂ O | MW #49 | 2-VOA | X | | -2 | X | | | | | | | | | | | | | |
| | | | | 2-VOA | X | | | | | X | | | | | | | | | | | |
| | | | | 1-liter | | | Amber | | | | | | | X | | | | | | | |

Date: 2/24/05 Time: 2pm Relinquished By: (Signature) Cindy Hurtado

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

Received By: (Signature) [Signature] 2/25/05

Received By: (Signature) _____

Remarks: _____