


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 4290

April 11, 2005



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

Dear Ms. Monzeglio,

Please find attached analytical results for the March 18, 2005 sampling event for wells MW #48 and MW #49 on the river terrace at the Giant Refining facility. Note that the results for well MW #49, located down-gradient of the barrier wall, had a detection of benzene at a concentration of 24 ug/L. We will continue to monitor both wells on a monthly basis and evaluate the concentration trends.

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

Sincerely,

Cindy Hurtado
Environmental Assistant
Giant Refining – Bloomfield

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

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

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

COVER LETTER

April 04, 2005

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

RE: River Terrace MW #48/MW #49-3/05

Order No.: 0503182

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 2 samples on 3/18/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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

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

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 04-Apr-05

CLIENT: San Juan Refining

Client Sample ID: MW #49

Lab Order: 0503182

Collection Date: 3/16/2005 2:25:00 PM

Project: River Terrace MW #48/MW #49-3/05

Lab ID: 0503182-01

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 | 3/23/2005 1:47:48 PM |
| Motor Oil Range Organics (MRO) | ND | 5.0 | | mg/L | 1 | 3/23/2005 1:47:48 PM |
| Surr: DNOP | 122 | 58-140 | | %REC | 1 | 3/23/2005 1:47:48 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 0.36 | 0.050 | | mg/L | 1 | 3/23/2005 11:13:00 PM |
| Surr: BFB | 105 | 78.3-120 | | %REC | 1 | 3/23/2005 11:13:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Methyl tert-butyl ether (MTBE) | ND | 2.5 | | µg/L | 1 | 3/23/2005 11:13:00 PM |
| Benzene | 24 | 0.50 | | µg/L | 1 | 3/23/2005 11:13:00 PM |
| Toluene | 0.50 | 0.50 | | µg/L | 1 | 3/23/2005 11:13:00 PM |
| Ethylbenzene | 9.4 | 0.50 | | µg/L | 1 | 3/23/2005 11:13:00 PM |
| Xylenes, Total | 16 | 0.50 | | µg/L | 1 | 3/23/2005 11:13:00 PM |
| Surr: 4-Bromofluorobenzene | 110 | 83.3-121 | | %REC | 1 | 3/23/2005 11:13:00 PM |
| EPA METHOD 8310: PAHS | | | | | | Analyst: JMP |
| Naphthalene | ND | 2.5 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| 1-Methylnaphthalene | ND | 2.5 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| 2-Methylnaphthalene | ND | 2.5 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Acenaphthylene | ND | 2.5 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Acenaphthene | ND | 2.5 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Fluorene | ND | 0.80 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Phenanthrene | ND | 0.60 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Anthracene | ND | 0.60 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Fluoranthene | ND | 0.30 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Pyrene | ND | 0.30 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Benz(a)anthracene | ND | 0.020 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Benzo(b)fluoranthene | ND | 0.050 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Benzo(k)fluoranthene | ND | 0.020 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Benzo(a)pyrene | ND | 0.020 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Dibenz(a,h)anthracene | ND | 0.040 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Benzo(g,h,i)perylene | ND | 0.030 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Indeno(1,2,3-cd)pyrene | ND | 0.080 | | µg/L | 1 | 3/29/2005 2:20:26 AM |
| Surr: Benzo(e)pyrene | 78.4 | 54-102 | | %REC | 1 | 3/29/2005 2:20:26 AM |

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

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

Hall Environmental Analysis Laboratory

Date: 04-Apr-05

CLIENT: San Juan Refining
 Lab Order: 0503182
 Project: River Terrace MW #48/MW #49-3/05
 Lab ID: 0503182-02

Client Sample ID: MW #48
 Collection Date: 3/16/2005 3:10:00 PM
 Matrix: AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE | | | | | | Analyst: SCC |
| Diesel Range Organics (DRO) | ND | 1.0 | | mg/L | 1 | 3/23/2005 2:47:31 PM |
| Motor Oil Range Organics (MRO) | ND | 5.0 | | mg/L | 1 | 3/23/2005 2:47:31 PM |
| Surr: DNOP | 113 | 58-140 | | %REC | 1 | 3/23/2005 2:47:31 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 29 | 2.5 | | mg/L | 50 | 3/24/2005 11:32:03 AM |
| Surr: BFB | 107 | 78.3-120 | | %REC | 50 | 3/24/2005 11:32:03 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Methyl tert-butyl ether (MTBE) | ND | 130 | | µg/L | 50 | 3/24/2005 11:32:03 AM |
| Benzene | 630 | 25 | | µg/L | 50 | 3/24/2005 11:32:03 AM |
| Toluene | ND | 25 | | µg/L | 50 | 3/24/2005 11:32:03 AM |
| Ethylbenzene | 2100 | 25 | | µg/L | 50 | 3/24/2005 11:32:03 AM |
| Xylenes, Total | 10000 | 25 | | µg/L | 50 | 3/24/2005 11:32:03 AM |
| Surr: 4-Bromofluorobenzene | 104 | 83.3-121 | | %REC | 50 | 3/24/2005 11:32:03 AM |
| EPA METHOD 8310: PAHS | | | | | | Analyst: JMP |
| Naphthalene | 260 | 13 | | µg/L | 5 | 3/30/2005 3:02:45 PM |
| 1-Methylnaphthalene | 79 | 2.5 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| 2-Methylnaphthalene | 110 | 2.5 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Acenaphthylene | ND | 2.5 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Acenaphthene | ND | 2.5 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Fluorene | 1.4 | 0.80 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Phenanthrene | 1.4 | 0.60 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Anthracene | ND | 0.60 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Fluoranthene | ND | 0.30 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Pyrene | ND | 0.30 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Benz(a)anthracene | ND | 0.020 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Benzo(b)fluoranthene | ND | 0.050 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Benzo(k)fluoranthene | ND | 0.020 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Benzo(a)pyrene | ND | 0.020 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Dibenz(a,h)anthracene | ND | 0.040 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Benzo(g,h,i)perylene | ND | 0.030 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.080 | | µg/L | 1 | 3/27/2005 9:45:16 PM |
| Surr: Benzo(e)pyrene | 77.1 | 54-102 | | %REC | 1 | 3/27/2005 9:45:16 PM |

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

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

Hall Environmental Analysis Laboratory

Date: 04-Apr-05

CLIENT: San Juan Refining
 Work Order: 0503182
 Project: River Terrace MW #48/MW #49-3/05

QC SUMMARY REPORT

Method Blank

| | | | | | | | | | | | |
|--------------------------------|---------|-----------|--------------------|-------------|--------|----------|-----------|---------------|-----------------------|-----------|-----------|
| Sample ID | MB-7623 | Batch ID: | 7623 | Test Code: | SW8015 | Units: | mg/L | Analysis Date | 3/23/2005 12:18:04 PM | Prep Date | 3/23/2005 |
| Client ID: | | Run ID: | FID(17A) 2_050323B | SeqNo: | 346608 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 1 | | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 5 | | | | | | | | | |
| Surr: DNOP | 1.163 | 0 | 1 | 0 | 116 | 58 | 140 | 0 | | | |

| | | | | | | | | | | | |
|-------------------------------|------------------|-----------|----------------|-------------|--------|----------|-----------|---------------|----------------------|-----------|------|
| Sample ID | Reagent Blank 5m | Batch ID: | R14909 | Test Code: | SW8015 | Units: | mg/L | Analysis Date | 3/23/2005 7:11:03 AM | Prep Date | |
| Client ID: | | Run ID: | PIDFID_050323A | SeqNo: | 346731 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 0.05 | | | | | | | | | |
| Surr: BFB | 21.28 | 0 | 20 | 0 | 106 | 78.3 | 120 | 0 | | | |

| | | | | | | | | | | | |
|-------------------------------|------------------|-----------|----------------|-------------|--------|----------|-----------|---------------|----------------------|-----------|------|
| Sample ID | Reagent Blank 5m | Batch ID: | R14918 | Test Code: | SW8015 | Units: | mg/L | Analysis Date | 3/24/2005 8:57:13 AM | Prep Date | |
| Client ID: | | Run ID: | PIDFID_050324A | SeqNo: | 346990 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 0.05 | | | | | | | | | |
| Surr: BFB | 19.95 | 0 | 20 | 0 | 99.7 | 78.3 | 120 | 0 | | | |

Qualifiers: ND - Not Detected at the Reporting Limit 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: 0503182
Project: River Terrace MW #48/MW #49-3/05

QC SUMMARY REPORT

Method Blank

| Sample ID | Reagent Blank 5m | Batch ID: R14909 | Test Code: SW8021 | Units: µg/L | Analysis Date 3/23/2005 7:11:03 AM | Prep Date | | | | | | |
|--------------------------------|------------------|------------------|------------------------|---------------|------------------------------------|-----------|-----------|-------------|------|----------|------|--|
| Client ID: | | | Run ID: PIDFID_050323A | SeqNo: 346730 | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Methyl tert-butyl ether (MTBE) | ND | 2.5 | | | | | | | | | | |
| Benzene | ND | 0.5 | | | | | | | | | | |
| Toluene | ND | 0.5 | | | | | | | | | | |
| Ethylbenzene | ND | 0.5 | | | | | | | | | | |
| Xylenes, Total | ND | 0.5 | | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 21.85 | 0 | 20 | 0 | 109 | 83.3 | 121 | 0 | | | | |

| Sample ID | Reagent Blank 5m | Batch ID: R14918 | Test Code: SW8021 | Units: µg/L | Analysis Date 3/24/2005 8:57:13 AM | Prep Date | | | | | | |
|--------------------------------|------------------|------------------|------------------------|---------------|------------------------------------|-----------|-----------|-------------|------|----------|------|--|
| Client ID: | | | Run ID: PIDFID_050324A | SeqNo: 346989 | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Methyl tert-butyl ether (MTBE) | ND | 2.5 | | | | | | | | | | |
| Benzene | ND | 0.5 | | | | | | | | | | |
| Toluene | ND | 0.5 | | | | | | | | | | |
| Ethylbenzene | ND | 0.5 | | | | | | | | | | |
| Xylenes, Total | ND | 0.5 | | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 19.66 | 0 | 20 | 0 | 98.3 | 83.3 | 121 | 0 | | | | |

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: 0503182
Project: River Terrace MW #48/MW #49-3/05

QC SUMMARY REPORT

Method Blank

Sample ID **MB-7619** Batch ID: **7619** Test Code: **SW8310** Units: **µg/L** Analysis Date **3/28/2005 11:56:25 PM** Prep Date **3/22/2005**
 Client ID: Run ID: **HUGO_050326A** SeqNo: **347579**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|------------------------|--------|------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Naphthalene | ND | 2.5 | | | | | | | | | |
| 1-Methylnaphthalene | ND | 2.5 | | | | | | | | | |
| 2-Methylnaphthalene | ND | 2.5 | | | | | | | | | |
| Acenaphthylene | ND | 2.5 | | | | | | | | | |
| Acenaphthene | ND | 2.5 | | | | | | | | | |
| Fluorene | ND | 0.8 | | | | | | | | | |
| Phenanthrene | ND | 0.6 | | | | | | | | | |
| Anthracene | ND | 0.6 | | | | | | | | | |
| Fluoranthene | ND | 0.3 | | | | | | | | | |
| Pyrene | ND | 0.3 | | | | | | | | | |
| Benz(a)anthracene | ND | 0.02 | | | | | | | | | |
| Chrysene | ND | 0.2 | | | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.05 | | | | | | | | | |
| Benzo(k)fluoranthene | ND | 0.02 | | | | | | | | | |
| Benzo(a)pyrene | ND | 0.02 | | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.04 | | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 0.03 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.08 | | | | | | | | | |
| Surr: Benzo(e)pyrene | 7.72 | 0 | 10 | 0 | 77.2 | 54 | 102 | 0 | | | |

5 / 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: 04-Apr-05

CLIENT: San Juan Refining
Work Order: 0503182
Project: River Terrace MW #48/MW #49-3/05

QC SUMMARY REPORT
 Laboratory Control Spike - generic

| | | | | | | | | | | | |
|-----------------------------|-----------------|-----------|---------------------------|-------------|---------------|----------|-------------|---------------|------------------------------|-----------|------------------|
| Sample ID | LCS-7623 | Batch ID: | 7623 | Test Code: | SW8015 | Units: | mg/L | Analysis Date | 3/23/2005 12:48:02 PM | Prep Date | 3/23/2005 |
| Client ID: | | Run ID: | FID(17A) 2_050323B | SeqNo: | 346648 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 5.441 | 1 | 5 | 0 | 109 | 81.2 | 149 | 0 | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------|-----------|---------------------------|-------------|---------------|----------|-------------|---------------|-----------------------------|-----------|------------------|
| Sample ID | LCSD-7623 | Batch ID: | 7623 | Test Code: | SW8015 | Units: | mg/L | Analysis Date | 3/23/2005 1:17:57 PM | Prep Date | 3/23/2005 |
| Client ID: | | Run ID: | FID(17A) 2_050323B | SeqNo: | 346649 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 6.085 | 1 | 5 | 0 | 122 | 81.2 | 149 | 5.441 | 11.2 | 23 | |

| | | | | | | | | | | | |
|-------------------------------|----------------------|-----------|-----------------------|-------------|---------------|----------|-------------|---------------|------------------------------|-----------|------|
| Sample ID | GRO lcs 2.5ug | Batch ID: | R14909 | Test Code: | SW8015 | Units: | mg/L | Analysis Date | 3/24/2005 12:12:51 AM | Prep Date | |
| Client ID: | | Run ID: | PIDFID_050323A | SeqNo: | 346825 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 0.4414 | 0.05 | 0.5 | 0 | 88.3 | 82.6 | 114 | 0 | | | |

| | | | | | | | | | | | |
|-------------------------------|-----------------------|-----------|-----------------------|-------------|---------------|----------|-------------|---------------|------------------------------|-----------|------|
| Sample ID | GRO lcsd 2.5ug | Batch ID: | R14909 | Test Code: | SW8015 | Units: | mg/L | Analysis Date | 3/24/2005 12:42:46 AM | Prep Date | |
| Client ID: | | Run ID: | PIDFID_050323A | SeqNo: | 346826 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 0.504 | 0.05 | 0.5 | 0 | 101 | 82.6 | 114 | 0.4414 | 13.2 | 15 | |

| | | | | | | | | | | | |
|-------------------------------|----------------------|-----------|-----------------------|-------------|---------------|----------|-------------|---------------|-----------------------------|-----------|------|
| Sample ID | GRO lcs 2.5ug | Batch ID: | R14918 | Test Code: | SW8015 | Units: | mg/L | Analysis Date | 3/24/2005 7:04:40 PM | Prep Date | |
| Client ID: | | Run ID: | PIDFID_050324A | SeqNo: | 346994 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 0.5548 | 0.05 | 0.5 | 0 | 111 | 82.6 | 114 | 0 | | | |

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

6 / 10

CLIENT: San Juan Refining
Work Order: 0503182
Project: River Terrace MW #48/MW #49-3/05

QC SUMMARY REPORT
 Laboratory Control Spike Duplicate

| Sample ID | GRO lcsd 2.5ug | Batch ID: R14918 | Test Code: SW8015 | Units: mg/L | Analysis Date | 3/24/2005 8:04:36 PM | Prep Date | | | | |
|-------------------------------|----------------|------------------|------------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Client ID: | | | Run ID: PIDFID_050324A | | SeqNo: 346995 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 0.5332 | 0.05 | 0.5 | 0 | 107 | 82.6 | 114 | 0.5548 | 3.97 | 8.39 | |

| Sample ID | BTEX lcs 100ng | Batch ID: R14909 | Test Code: SW8021 | Units: µg/L | Analysis Date | 3/24/2005 1:42:28 AM | Prep Date | | | | |
|--------------------------------|----------------|------------------|------------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Client ID: | | | Run ID: PIDFID_050323A | | SeqNo: 346820 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 43.82 | 2.5 | 40 | 0 | 110 | 64.5 | 133 | 0 | | | |
| Benzene | 19.78 | 0.5 | 20 | 0 | 98.9 | 88.7 | 114 | 0 | | | |
| Toluene | 20.07 | 0.5 | 20 | 0 | 100 | 89.3 | 112 | 0 | | | |
| Ethylbenzene | 20.75 | 0.5 | 20 | 0 | 104 | 88.6 | 113 | 0 | | | |
| Xylenes, Total | 59.31 | 0.5 | 60 | 0 | 98.8 | 89.4 | 112 | 0 | | | |

| Sample ID | BTEX lcsd 100ng | Batch ID: R14909 | Test Code: SW8021 | Units: µg/L | Analysis Date | 3/24/2005 2:12:16 AM | Prep Date | | | | |
|--------------------------------|-----------------|------------------|------------------------|-------------|---------------|----------------------|-----------|-------------|-------|----------|------|
| Client ID: | | | Run ID: PIDFID_050323A | | SeqNo: 346822 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 42.05 | 2.5 | 40 | 0 | 105 | 64.5 | 133 | 43.82 | 4.12 | 28 | |
| Benzene | 19.67 | 0.5 | 20 | 0 | 98.3 | 88.7 | 114 | 19.78 | 0.594 | 27 | |
| Toluene | 19.8 | 0.5 | 20 | 0 | 99.0 | 89.3 | 112 | 20.07 | 1.36 | 19 | |
| Ethylbenzene | 20.66 | 0.5 | 20 | 0 | 103 | 88.6 | 113 | 20.75 | 0.418 | 10 | |
| Xylenes, Total | 58.74 | 0.5 | 60 | 0 | 97.9 | 89.4 | 112 | 59.31 | 0.963 | 13 | |

Qualifiers: ND - Not Detected at the Reporting Limit 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: 0503182
Project: River Terrace MW #48/MW #49-3/05

QC SUMMARY REPORT
 Laboratory Control Spike - generic

| Sample ID | BTEX ccv 100ng | Batch ID: R14918 | Test Code: SW8021 | Units: µg/L | Analysis Date | 3/24/2005 8:34:35 PM | Prep Date | | | | | |
|--------------------------------|------------------------|------------------|-------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|--|
| Client ID: | Run ID: PIDFID_050324A | | SeqNo: 347017 | | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Methyl tert-butyl ether (MTBE) | 45.63 | 2.5 | 40 | 0 | 114 | 64.5 | 133 | 0 | | | | |
| Benzene | 19.86 | 0.5 | 20 | 0 | 99.3 | 88.7 | 114 | 0 | | | | |
| Toluene | 20.62 | 0.5 | 20 | 0 | 103 | 89.3 | 112 | 0 | | | | |
| Ethylbenzene | 21.13 | 0.5 | 20 | 0 | 106 | 88.6 | 113 | 0 | | | | |
| Xylenes, Total | 61.93 | 0.5 | 60 | 0 | 103 | 89.4 | 112 | 0 | | | | |

| Sample ID | LCS-7619 | Batch ID: 7619 | Test Code: SW8310 | Units: µg/L | Analysis Date | 3/30/2005 12:38:45 PM | Prep Date | 3/22/2005 | | | | |
|------------------------|----------------------|----------------|-------------------|-------------|---------------|-----------------------|-----------|-------------|------|----------|------|--|
| Client ID: | Run ID: HUGO_050329A | | SeqNo: 348196 | | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Naphthalene | 23 | 2.5 | 40 | 0 | 57.5 | 20.939 | 111.211 | 0 | | | | |
| 1-Methylnaphthalene | 23.43 | 2.5 | 40.1 | 0 | 58.4 | 22.016 | 110.385 | 0 | | | | |
| 2-Methylnaphthalene | 23.35 | 2.5 | 40 | 0 | 58.4 | 21.098 | 111.261 | 0 | | | | |
| Acenaphthylene | 27.9 | 2.5 | 40.1 | 0 | 69.6 | 23.852 | 116.857 | 0 | | | | |
| Acenaphthene | 26.72 | 2.5 | 40 | 0 | 66.8 | 27.524 | 111.73 | 0 | | | | |
| Fluorene | 2.91 | 0.8 | 4.01 | 0 | 72.6 | 31.046 | 113.32 | 0 | | | | |
| Phenanthrene | 1.41 | 0.6 | 2.01 | 0 | 70.1 | 42.279 | 115.749 | 0 | | | | |
| Anthracene | 1.53 | 0.6 | 2.01 | 0 | 76.1 | 43.767 | 118.693 | 0 | | | | |
| Fluoranthene | 2.96 | 0.3 | 4.01 | 0 | 73.8 | 55.334 | 117.461 | 0 | | | | |
| Pyrene | 2.88 | 0.3 | 4.01 | 0 | 71.8 | 57.722 | 120.832 | 0 | | | | |
| Benz(a)anthracene | 0.31 | 0.02 | 0.401 | 0 | 77.3 | 70.18 | 113.452 | 0 | | | | |
| Chrysene | 1.4 | 0.2 | 2.01 | 0 | 69.7 | 43.942 | 141.404 | 0 | | | | |
| Benzo(b)fluoranthene | 0.36 | 0.05 | 0.501 | 0 | 71.9 | 71.192 | 103.368 | 0 | | | | |
| Benzo(k)fluoranthene | 0.19 | 0.02 | 0.25 | 0 | 76.0 | 75.336 | 107.209 | 0 | | | | |
| Benzo(a)pyrene | 0.191 | 0.02 | 0.251 | 0 | 76.1 | 74.556 | 100.742 | 0 | | | | |
| Dibenz(a,h)anthracene | 0.404 | 0.04 | 0.501 | 0 | 80.6 | 80.693 | 106.931 | 0 | | | S | |
| Benzo(g,h,i)perylene | 0.35 | 0.03 | 0.5 | 0 | 70.0 | 55.168 | 135.014 | 0 | | | | |
| Indeno(1,2,3-cd)pyrene | 0.799 | 0.08 | 1.002 | 0 | 79.7 | 79.328 | 104.794 | 0 | | | | |

Qualifiers: ND - Not Detected at the Reporting Limit 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

8 / 10

CLIENT: San Juan Refining
Work Order: 0503182
Project: River Terrace MW #48/MW #49-3/05

QC SUMMARY REPORT
 Laboratory Control Spike Duplicate

| Sample ID | LCSD-7619 | Batch ID: 7619 | Test Code: SW8310 | Units: µg/L | Analysis Date | 3/30/2005 1:26:44 PM | Prep Date | 3/22/2005 | | | |
|------------------------|----------------------|----------------|-------------------|-------------|---------------|----------------------|-----------|-------------|-------|----------|------|
| Client ID: | Run ID: HUGO_050329A | | | SeqNo: | 348197 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | 24.71 | 2.5 | 40 | 0 | 61.8 | 20.939 | 111.211 | 23 | 7.17 | 32.1 | |
| 1-Methylnaphthalene | 24.94 | 2.5 | 40.1 | 0 | 62.2 | 22.016 | 110.385 | 23.43 | 6.24 | 32.7 | |
| 2-Methylnaphthalene | 24.63 | 2.5 | 40 | 0 | 61.6 | 21.098 | 111.261 | 23.35 | 5.34 | 34 | |
| Acenaphthylene | 28.36 | 2.5 | 40.1 | 0 | 70.7 | 23.852 | 116.857 | 27.9 | 1.64 | 38.8 | |
| Acenaphthene | 27.04 | 2.5 | 40 | 0 | 67.6 | 27.524 | 111.73 | 26.72 | 1.19 | 38.6 | |
| Fluorene | 2.87 | 0.8 | 4.01 | 0 | 71.6 | 31.046 | 113.32 | 2.91 | 1.38 | 39.3 | |
| Phenanthrene | 1.45 | 0.6 | 2.01 | 0 | 72.1 | 42.279 | 115.749 | 1.41 | 2.80 | 25 | |
| Anthracene | 1.51 | 0.6 | 2.01 | 0 | 75.1 | 43.767 | 118.693 | 1.53 | 1.32 | 23.9 | |
| Fluoranthene | 2.99 | 0.3 | 4.01 | 0 | 74.6 | 55.334 | 117.461 | 2.96 | 1.01 | 15.7 | |
| Pyrene | 3.01 | 0.3 | 4.01 | 0 | 75.1 | 57.722 | 120.832 | 2.88 | 4.41 | 15.3 | |
| Benz(a)anthracene | 0.31 | 0.02 | 0.401 | 0 | 77.3 | 70.18 | 113.452 | 0.31 | 0 | 119 | |
| Chrysene | 1.43 | 0.2 | 2.01 | 0 | 71.1 | 43.942 | 141.404 | 1.4 | 2.12 | 16.6 | |
| Benzo(b)fluoranthene | 0.409 | 0.05 | 0.501 | 0 | 81.6 | 71.192 | 103.368 | 0.359 | 13.0 | 21.7 | |
| Benzo(k)fluoranthene | 0.19 | 0.02 | 0.25 | 0 | 76.0 | 75.336 | 107.209 | 0.19 | 0 | 19.4 | |
| Benzo(a)pyrene | 0.2 | 0.02 | 0.251 | 0 | 79.7 | 74.556 | 100.742 | 0.191 | 4.60 | 16.7 | |
| Dibenz(a,h)anthracene | 0.4 | 0.04 | 0.501 | 0 | 79.8 | 80.693 | 106.931 | 0.404 | 0.995 | 17.3 | S |
| Benzo(g,h,i)perylene | 0.37 | 0.03 | 0.5 | 0 | 74.0 | 55.168 | 135.014 | 0.35 | 5.56 | 118 | |
| Indeno(1,2,3-cd)pyrene | 0.804 | 0.08 | 1.002 | 0 | 80.2 | 79.328 | 104.794 | 0.799 | 0.624 | 17.7 | |

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:

3/18/2005

Work Order Number 0503182

Received by AT

Checklist completed by

[Handwritten Signature]

3/18/05

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? Yes No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No N/A

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

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

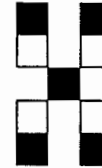
Corrective Action _____

CHAIN-OF-CUSTODY RECORD

Accreditation Applied:

NELAC USACE

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: River TERRACE - MW#48 & MW#49 - 3/05

Address: #50 Rd 4990 Bloomfield, NM 87413

Project #:

Project Manager:

Phone #: 505-632-4161

Sampler: Cindy Hurtado

Fax #: 505-632-3911

Sample Temperature: 1

ANALYSIS REQUEST

| Date | Time | Matrix | Sample I.D. No. | Number/Volume | Preservative | | HEAL No. | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gasoline Only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | EDC (Method 8021) | 8310 (PAH 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 | | | | | | | | | | | | | | | |
| 3/16/05 | 225p | H ₂ O | MW#49 | 2-VOA | X | | 05031821 | X | | | | | | | | | | | | | |
| | | | | 2-VOA | X | | | | X | | | | | | | | | | | | |
| | | | | 1-liter | | | Amber | | | | | | | X | | | | | | | |
| 3/16/05 | 310p | H ₂ O | MW#48 | 2-VOA | X | | -2 | X | | | | | | | | | | | | | |
| | | | | 2-VOA | X | | | | X | | | | | | | | | | | | |
| | | | | 1-liter | | | Amber | | | | | | | X | | | | | | | |

Date: 3/17/05 Time: 9AM Relinquished By: (Signature) Cindy Hurtado

Received By: (Signature) [Signature] 3/18/05
Received By: (Signature) [Signature] 1600

Remarks: