

COVER LETTER

March 23, 2005

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

RE: Injection Well - 1st Qtr 2005

Order No.: 0503082

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 2 samples on 3/8/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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

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

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 23-Mar-05

CLIENT: San Juan Refining
 Lab Order: 0503082
 Project: Injection Well - 1st Qtr 2005
 Lab ID: 0503082-01

Client Sample ID: Inj Well 1st Qtr
 Collection Date: 3/7/2005 11:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Chloride	770	2.0		mg/L	20	3/10/2005
Sulfate	470	10		mg/L	20	3/10/2005
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
Alkalinity, Total (As CaCO3)	570	4.0		mg/L CaCO3	2	3/21/2005
Carbonate	ND	4.0		mg/L CaCO3	2	3/21/2005
Bicarbonate	570	4.0		mg/L CaCO3	2	3/21/2005
EPA METHOD 8260: VOLATILES						Analyst: BDH
Benzene	ND	10		µg/L	10	3/12/2005
Toluene	ND	10		µg/L	10	3/12/2005
Ethylbenzene	ND	10		µg/L	10	3/12/2005
Methyl tert-butyl ether (MTBE)	1700	20		µg/L	20	3/14/2005
1,2,4-Trimethylbenzene	ND	10		µg/L	10	3/12/2005
1,3,5-Trimethylbenzene	16	10		µg/L	10	3/12/2005
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/12/2005
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/12/2005
Naphthalene	ND	20		µg/L	10	3/12/2005
1-Methylnaphthalene	ND	40		µg/L	10	3/12/2005
2-Methylnaphthalene	ND	40		µg/L	10	3/12/2005
Acetone	350	100		µg/L	10	3/12/2005
Bromobenzene	ND	10		µg/L	10	3/12/2005
Bromochloromethane	ND	10		µg/L	10	3/12/2005
Bromodichloromethane	ND	10		µg/L	10	3/12/2005
Bromoform	ND	10		µg/L	10	3/12/2005
Bromomethane	ND	20		µg/L	10	3/12/2005
2-Butanone	ND	100		µg/L	10	3/12/2005
Carbon disulfide	ND	100		µg/L	10	3/12/2005
Carbon Tetrachloride	ND	10		µg/L	10	3/12/2005
Chlorobenzene	ND	10		µg/L	10	3/12/2005
Chloroethane	ND	20		µg/L	10	3/12/2005
Chloroform	ND	10		µg/L	10	3/12/2005
Chloromethane	ND	10		µg/L	10	3/12/2005
2-Chlorotoluene	ND	10		µg/L	10	3/12/2005
4-Chlorotoluene	ND	10		µg/L	10	3/12/2005
cis-1,2-DCE	ND	10		µg/L	10	3/12/2005
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/12/2005
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/12/2005
Dibromochloromethane	ND	10		µg/L	10	3/12/2005
Dibromomethane	ND	20		µg/L	10	3/12/2005
1,2-Dichlorobenzene	ND	10		µg/L	10	3/12/2005
1,3-Dichlorobenzene	ND	10		µg/L	10	3/12/2005

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

Hall Environmental Analysis Laboratory

Date: 23-Mar-05

CLIENT: San Juan Refining
 Lab Order: 0503082
 Project: Injection Well - 1st Qtr 2005
 Lab ID: 0503082-01

Client Sample ID: Inj Well 1st Qtr
 Collection Date: 3/7/2005 11:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-Dichlorobenzene	ND	10		µg/L	10	3/12/2005
Dichlorodifluoromethane	ND	10		µg/L	10	3/12/2005
1,1-Dichloroethane	ND	10		µg/L	10	3/12/2005
1,1-Dichloroethene	ND	10		µg/L	10	3/12/2005
1,2-Dichloropropane	ND	10		µg/L	10	3/12/2005
1,3-Dichloropropane	ND	10		µg/L	10	3/12/2005
2,2-Dichloropropane	ND	10		µg/L	10	3/12/2005
1,1-Dichloropropene	ND	10		µg/L	10	3/12/2005
Hexachlorobutadiene	ND	10		µg/L	10	3/12/2005
2-Hexanone	ND	100		µg/L	10	3/12/2005
Isopropylbenzene	ND	10		µg/L	10	3/12/2005
4-Isopropyltoluene	ND	10		µg/L	10	3/12/2005
4-Methyl-2-pentanone	ND	100		µg/L	10	3/12/2005
Methylene Chloride	ND	30		µg/L	10	3/12/2005
n-Butylbenzene	ND	10		µg/L	10	3/12/2005
n-Propylbenzene	ND	10		µg/L	10	3/12/2005
sec-Butylbenzene	ND	10		µg/L	10	3/12/2005
Styrene	ND	10		µg/L	10	3/12/2005
tert-Butylbenzene	ND	10		µg/L	10	3/12/2005
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/12/2005
1,1,2,2-Tetrachloroethane	ND	10		µg/L	10	3/12/2005
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/12/2005
trans-1,2-DCE	ND	10		µg/L	10	3/12/2005
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/12/2005
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/12/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/12/2005
1,1,1-Trichloroethane	ND	10		µg/L	10	3/12/2005
1,1,2-Trichloroethane	ND	10		µg/L	10	3/12/2005
Trichloroethene (TCE)	ND	10		µg/L	10	3/12/2005
Trichlorofluoromethane	ND	10		µg/L	10	3/12/2005
1,2,3-Trichloropropane	ND	20		µg/L	10	3/12/2005
Vinyl chloride	ND	10		µg/L	10	3/12/2005
Xylenes, Total	120	10		µg/L	10	3/12/2005
Surr: 1,2-Dichloroethane-d4	90.9	80-120		%REC	10	3/12/2005
Surr: 4-Bromofluorobenzene	97.6	80-120		%REC	10	3/12/2005
Surr: Dibromofluoromethane	96.1	80-120		%REC	10	3/12/2005
Surr: Toluene-d8	87.3	80-120		%REC	10	3/12/2005

EPA METHOD 8270C: SEMIVOLATILES

Analyst: BL

Acenaphthene	ND	20		µg/L	1	3/10/2005
Acenaphthylene	ND	20		µg/L	1	3/10/2005
Aniline	ND	20		µg/L	1	3/10/2005
Anthracene	ND	20		µg/L	1	3/10/2005

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

Hall Environmental Analysis Laboratory

Date: 23-Mar-05

CLIENT: San Juan Refining

Client Sample ID: Inj Well 1st Qtr

Lab Order: 0503082

Collection Date: 3/7/2005 11:00:00 AM

Project: Injection Well - 1st Qtr 2005

Lab ID: 0503082-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Azobenzene	ND	20		µg/L	1	3/10/2005
Benzo(a)anthracene	ND	30		µg/L	1	3/10/2005
Benzo(a)pyrene	ND	20		µg/L	1	3/10/2005
Benzo(b)fluoranthene	ND	20		µg/L	1	3/10/2005
Benzo(g,h,i)perylene	ND	20		µg/L	1	3/10/2005
Benzo(k)fluoranthene	ND	20		µg/L	1	3/10/2005
Benzoic acid	ND	100		µg/L	1	3/10/2005
Benzyl alcohol	ND	40		µg/L	1	3/10/2005
Bis(2-chloroethoxy)methane	ND	20		µg/L	1	3/10/2005
Bis(2-chloroethyl)ether	ND	30		µg/L	1	3/10/2005
Bis(2-chloroisopropyl)ether	ND	30		µg/L	1	3/10/2005
Bis(2-ethylhexyl)phthalate	ND	30		µg/L	1	3/10/2005
4-Bromophenyl phenyl ether	ND	20		µg/L	1	3/10/2005
Butyl benzyl phthalate	ND	30		µg/L	1	3/10/2005
Carbazole	ND	20		µg/L	1	3/10/2005
4-Chloro-3-methylphenol	ND	40		µg/L	1	3/10/2005
4-Chloroaniline	ND	40		µg/L	1	3/10/2005
2-Chloronaphthalene	ND	20		µg/L	1	3/10/2005
2-Chlorophenol	ND	20		µg/L	1	3/10/2005
4-Chlorophenyl phenyl ether	ND	30		µg/L	1	3/10/2005
Chrysene	ND	30		µg/L	1	3/10/2005
Di-n-butyl phthalate	ND	20		µg/L	1	3/10/2005
Di-n-octyl phthalate	ND	30		µg/L	1	3/10/2005
Dibenz(a,h)anthracene	ND	20		µg/L	1	3/10/2005
Dibenzofuran	ND	20		µg/L	1	3/10/2005
1,2-Dichlorobenzene	ND	20		µg/L	1	3/10/2005
1,3-Dichlorobenzene	ND	20		µg/L	1	3/10/2005
1,4-Dichlorobenzene	ND	20		µg/L	1	3/10/2005
3,3'-Dichlorobenzidine	ND	30		µg/L	1	3/10/2005
Diethyl phthalate	ND	20		µg/L	1	3/10/2005
Dimethyl phthalate	ND	20		µg/L	1	3/10/2005
2,4-Dichlorophenol	ND	20		µg/L	1	3/10/2005
2,4-Dimethylphenol	36	20		µg/L	1	3/10/2005
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	3/10/2005
2,4-Dinitrophenol	ND	100		µg/L	1	3/10/2005
2,4-Dinitrotoluene	ND	20		µg/L	1	3/10/2005
2,6-Dinitrotoluene	ND	20		µg/L	1	3/10/2005
Fluoranthene	ND	20		µg/L	1	3/10/2005
Fluorene	ND	20		µg/L	1	3/10/2005
Hexachlorobenzene	ND	20		µg/L	1	3/10/2005
Hexachlorobutadiene	ND	20		µg/L	1	3/10/2005
Hexachlorocyclopentadiene	ND	20		µg/L	1	3/10/2005

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

Hall Environmental Analysis Laboratory

Date: 23-Mar-05

CLIENT: San Juan Refining
 Lab Order: 0503082
 Project: Injection Well - 1st Qtr 2005
 Lab ID: 0503082-01

Client Sample ID: Inj Well 1st Qtr
 Collection Date: 3/7/2005 11:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Hexachloroethane	ND	20		µg/L	1	3/10/2005
Indeno(1,2,3-cd)pyrene	ND	20		µg/L	1	3/10/2005
Isophorone	ND	20		µg/L	1	3/10/2005
2-Methylnaphthalene	ND	20		µg/L	1	3/10/2005
2-Methylphenol	ND	30		µg/L	1	3/10/2005
3+4-Methylphenol	ND	20		µg/L	1	3/10/2005
N-Nitrosodi-n-propylamine	ND	20		µg/L	1	3/10/2005
N-Nitrosodimethylamine	ND	20		µg/L	1	3/10/2005
N-Nitrosodiphenylamine	ND	20		µg/L	1	3/10/2005
Naphthalene	ND	20		µg/L	1	3/10/2005
2-Nitroaniline	ND	100		µg/L	1	3/10/2005
3-Nitroaniline	ND	100		µg/L	1	3/10/2005
4-Nitroaniline	ND	40		µg/L	1	3/10/2005
Nitrobenzene	ND	20		µg/L	1	3/10/2005
2-Nitrophenol	ND	30		µg/L	1	3/10/2005
4-Nitrophenol	ND	100		µg/L	1	3/10/2005
Pentachlorophenol	ND	100		µg/L	1	3/10/2005
Phenanthrene	ND	20		µg/L	1	3/10/2005
Phenol	ND	20		µg/L	1	3/10/2005
Pyrene	ND	30		µg/L	1	3/10/2005
Pyridine	ND	60		µg/L	1	3/10/2005
1,2,4-Trichlorobenzene	ND	20		µg/L	1	3/10/2005
2,4,5-Trichlorophenol	ND	20		µg/L	1	3/10/2005
2,4,6-Trichlorophenol	ND	30		µg/L	1	3/10/2005
Surr: 2,4,6-Tribromophenol	36.7	16.6-115		%REC	1	3/10/2005
Surr: 2-Fluorobiphenyl	69.1	37-95.7		%REC	1	3/10/2005
Surr: 2-Fluorophenol	18.6	9.54-89.8		%REC	1	3/10/2005
Surr: 4-Terphenyl-d14	72.0	47.9-115		%REC	1	3/10/2005
Surr: Nitrobenzene-d5	61.5	38-106		%REC	1	3/10/2005
Surr: Phenol-d6	24.3	10.7-63.4		%REC	1	3/10/2005

EPA 120.1: SPECIFIC CONDUCTANCE

Specific Conductance 4500 0.010 µmhos/cm

Analyst: MAP

3/21/2005

EPA METHOD 7470: MERCURY

Mercury 0.00029 0.00020 mg/L

Analyst: CMC

3/11/2005

EPA 6010: TOTAL RECOVERABLE METALS

Arsenic ND 0.020 mg/L
 Barium 0.14 0.020 mg/L
 Cadmium ND 0.0020 mg/L
 Calcium 61 1.0 mg/L
 Chromium ND 0.0060 mg/L
 Lead ND 0.0050 mg/L

Analyst: NMO

3/14/2005 12:01:38 PM
 3/14/2005 12:01:38 PM
 3/14/2005 12:01:38 PM
 3/14/2005 2:01:57 PM
 3/14/2005 12:01:38 PM
 3/14/2005 12:01:38 PM

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

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

Hall Environmental Analysis Laboratory

Date: 23-Mar-05

CLIENT: San Juan Refining
Lab Order: 0503082
Project: Injection Well - 1st Qtr 2005
Lab ID: 0503082-01

Client Sample ID: Inj Well 1st Qtr
Collection Date: 3/7/2005 11:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Magnesium	21	1.0		mg/L	1	3/14/2005 2:01:57 PM
Potassium	11	1.0		mg/L	1	3/14/2005 2:01:57 PM
Selenium	ND	0.050		mg/L	1	3/14/2005 12:01:38 PM
Silver	ND	0.0050		mg/L	1	3/14/2005 2:01:57 PM
Sodium	790	10		mg/L	10	3/14/2005 2:38:46 PM
EPA METHOD 150.1: PH						Analyst: MAP
pH	8.19	0.010		pH units	1	3/21/2005

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

Hall Environmental Analysis Laboratory

Date: 23-Mar-05

CLIENT: San Juan Refining
 Lab Order: 0503082
 Project: Injection Well - 1st Qtr 2005
 Lab ID: 0503082-02

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES						Analyst: BDH
Benzene	ND	1.0		µg/L	1	3/12/2005
Toluene	ND	1.0		µg/L	1	3/12/2005
Ethylbenzene	ND	1.0		µg/L	1	3/12/2005
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/12/2005
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/12/2005
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/12/2005
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/12/2005
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/12/2005
Naphthalene	ND	2.0		µg/L	1	3/12/2005
1-Methylnaphthalene	ND	4.0		µg/L	1	3/12/2005
2-Methylnaphthalene	ND	4.0		µg/L	1	3/12/2005
Acetone	ND	10		µg/L	1	3/12/2005
Bromobenzene	ND	1.0		µg/L	1	3/12/2005
Bromochloromethane	ND	1.0		µg/L	1	3/12/2005
Bromodichloromethane	ND	1.0		µg/L	1	3/12/2005
Bromoform	ND	1.0		µg/L	1	3/12/2005
Bromomethane	ND	2.0		µg/L	1	3/12/2005
2-Butanone	ND	10		µg/L	1	3/12/2005
Carbon disulfide	ND	10		µg/L	1	3/12/2005
Carbon Tetrachloride	ND	1.0		µg/L	1	3/12/2005
Chlorobenzene	ND	1.0		µg/L	1	3/12/2005
Chloroethane	ND	2.0		µg/L	1	3/12/2005
Chloroform	ND	1.0		µg/L	1	3/12/2005
Chloromethane	ND	1.0		µg/L	1	3/12/2005
2-Chlorotoluene	ND	1.0		µg/L	1	3/12/2005
4-Chlorotoluene	ND	1.0		µg/L	1	3/12/2005
cis-1,2-DCE	ND	1.0		µg/L	1	3/12/2005
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/12/2005
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/12/2005
Dibromochloromethane	ND	1.0		µg/L	1	3/12/2005
Dibromomethane	ND	2.0		µg/L	1	3/12/2005
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/12/2005
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/12/2005
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/12/2005
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/12/2005
1,1-Dichloroethane	ND	1.0		µg/L	1	3/12/2005
1,1-Dichloroethene	ND	1.0		µg/L	1	3/12/2005
1,2-Dichloropropane	ND	1.0		µg/L	1	3/12/2005
1,3-Dichloropropane	ND	1.0		µg/L	1	3/12/2005
2,2-Dichloropropane	ND	1.0		µg/L	1	3/12/2005
1,1-Dichloropropene	ND	1.0		µg/L	1	3/12/2005

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

Hall Environmental Analysis Laboratory

Date: 23-Mar-05

CLIENT: San Juan Refining
 Lab Order: 0503082
 Project: Injection Well - 1st Qtr 2005
 Lab ID: 0503082-02

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	1.0		µg/L	1	3/12/2005
2-Hexanone	ND	10		µg/L	1	3/12/2005
Isopropylbenzene	ND	1.0		µg/L	1	3/12/2005
4-Isopropyltoluene	ND	1.0		µg/L	1	3/12/2005
4-Methyl-2-pentanone	ND	10		µg/L	1	3/12/2005
Methylene Chloride	ND	3.0		µg/L	1	3/12/2005
n-Butylbenzene	ND	1.0		µg/L	1	3/12/2005
n-Propylbenzene	ND	1.0		µg/L	1	3/12/2005
sec-Butylbenzene	ND	1.0		µg/L	1	3/12/2005
Styrene	ND	1.0		µg/L	1	3/12/2005
tert-Butylbenzene	ND	1.0		µg/L	1	3/12/2005
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/12/2005
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	3/12/2005
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/12/2005
trans-1,2-DCE	ND	1.0		µg/L	1	3/12/2005
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/12/2005
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/12/2005
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/12/2005
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/12/2005
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/12/2005
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/12/2005
Trichlorofluoromethane	ND	1.0		µg/L	1	3/12/2005
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/12/2005
Vinyl chloride	ND	1.0		µg/L	1	3/12/2005
Xylenes, Total	ND	1.0		µg/L	1	3/12/2005
Surr: 1,2-Dichloroethane-d4	91.1	80-120		%REC	1	3/12/2005
Surr: 4-Bromofluorobenzene	94.1	80-120		%REC	1	3/12/2005
Surr: Dibromofluoromethane	94.0	80-120		%REC	1	3/12/2005
Surr: Toluene-d8	87.3	80-120		%REC	1	3/12/2005

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

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: Not Indicated
Lab ID: C05030403-001
Client Sample ID: Inj Well 1st Qtr (0503082-01)

Report Date: 03/23/05
Collection Date: 03/07/05 11:00
Date Received: 03/09/05
Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL PROPERTIES							
Flash Point (Ignitability)	>140	°F		60	140	SW1010	03/14/05 13:00 bah
pH, Corrosivity	8.09	s.u.		0.10		E9040 B	03/14/05 13:00 lmh
- Flashpoint has been corrected for barometric pressure.							
REACTIVITY							
Sulfide, Reactive	ND	mg/kg		20.0	500	SW846 Ch 7	03/14/05 15:40 /jl
Cyanide, Reactive	ND	mg/kg		1.0	250	SW846 Ch 7	03/16/05 15:28 /eli-b

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: Not Indicated

Report Date: 03/23/05
Work Order: C05030403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW1010							Batch: 050314A-FLSHPNT-LIQ		
Sample ID: MBLK1_050314A	Method Blank								03/14/05 13:04
Flash Point (Ignitability)	ND	°F	60						
- Flashpoint has been corrected for barometric pressure.									
Sample ID: LCS1_050314A	Laboratory Control Spike								03/14/05 11:03
Flash Point (Ignitability)	82.0	°F	60	100	96	104			
- Flashpoint has not been corrected for barometric pressure.									
Method: SW846 Ch 7							Batch: 7441		
Sample ID: MB-7441	Method Blank								03/14/05 15:36
Sulfide, Reactive	ND	mg/kg	1						
Method: SW846 Ch 7							Batch: B_14916		
Sample ID: MB-14916	Method Blank								03/16/05 15:30
Cyanide, Reactive	ND	mg/kg	0.05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Hall Environmental Analysis Laboratory

Date: 23-Mar-05

CLIENT: San Juan Refining
 Work Order: 0503082
 Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT
 Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MBLK	R14778	E300	mg/L	3/8/2005							
Client ID:		Run ID: LC_050308A		SeqNo: 343541							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.1									
Sulfate	ND	0.5									

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MBLK	R14802	E300	mg/L	3/10/2005							
Client ID:		Run ID: LC_050310A		SeqNo: 344017							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.1									
Sulfate	ND	0.5									

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MBLK	R14878	E310.1	mg/L CaCO3	3/21/2005							
Client ID:		Run ID: WC_050321B		SeqNo: 346140							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2									
Carbonate	ND	2									
Bicarbonate	ND	2									

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

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CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-7546	7546	SW8270C	µg/L	3/10/2005	3/9/2005						
Client ID:		Run ID:	ELMO_050310A	SeqNo:	344003						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Aniline	ND	10									
Anthracene	ND	10									
Azobenzene	ND	10									
Benz(a)anthracene	ND	15									
Benzo(a)pyrene	ND	10									
Benzo(b)fluoranthene	ND	10									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Benzoic acid	ND	50									
Benzyl alcohol	ND	20									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	15									
Bis(2-chloroisopropyl)ether	ND	15									
Bis(2-ethylhexyl)phthalate	ND	15									
4-Bromophenyl phenyl ether	ND	10									
Butyl benzyl phthalate	ND	15									
Carbazole	ND	10									
4-Chloro-3-methylphenol	ND	20									
4-Chloroaniline	ND	20									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
4-Chlorophenyl phenyl ether	ND	15									
Chrysene	ND	15									
Di-n-butyl phthalate	ND	10									
Di-n-octyl phthalate	ND	15									
Dibenz(a,h)anthracene	ND	10									

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

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

B - Analyte detected in the associated Method Blank

11/24

CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT

Method Blank

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

12/24

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

CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT
 Method Blank

4-Nitrophenol	ND	50								
Pentachlorophenol	ND	50								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	15								
Pyridine	ND	30								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	15								
Surr: 2,4,6-Tribromophenol	145.4	0	200	0	72.7	16.6	115	0		
Surr: 2-Fluorobiphenyl	70.74	0	100	0	70.7	37	95.7	0		
Surr: 2-Fluorophenol	129.6	0	200	0	64.8	9.54	89.8	0		
Surr: 4-Terphenyl-d14	79.16	0	100	0	79.2	51.2	125	0		
Surr: Nitrobenzene-d5	73.72	0	100	0	73.7	38	106	0		
Surr: Phenol-d6	90.64	0	200	0	45.3	10.7	63.4	0		

Sample ID	MB-7565	Batch ID:	7565	Test Code:	SW7470	Units:	mg/L	Analysis Date	3/11/2005	Prep Date	3/11/2005
Client ID:		Run ID:	MI-LA254_050311B	SeqNo:	344160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0002									

Sample ID	MB-7560	Batch ID:	7560	Test Code:	SW6010A	Units:	mg/L	Analysis Date	3/14/2005 11:24:08 AM	Prep Date	3/11/2005
Client ID:		Run ID:	ICP_050314B	SeqNo:	344420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Cadmium	0.001447	0.002									J
Chromium	ND	0.006									
Lead	ND	0.005									
Selenium	ND	0.05									

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

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CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT

Method Blank

Sample ID **MB-7560** Batch ID: **7560** Test Code: **SW6010A** Units: **mg/L** Analysis Date **3/14/2005 1:41:16 PM** Prep Date **3/11/2005**
Client ID: Run ID: **ICP_050314B** SeqNo: **344456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	1									
Magnesium	ND	1									
Potassium	ND	1									
Silver	ND	0.005									
Sodium	ND	1									

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

CLIENT: San Juan Refining
 Work Order: 0503082
 Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT
 Method Blank

Sample ID 5ml rb Sat Batch ID: R14814 Test Code: SW8260B Units: µg/L Analysis Date 3/12/2005 Prep Date
 Client ID: Run ID: VAL_050308E SeqNo: 344274

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

15/24

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: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT

Method Blank

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

16/24

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

CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT
 Method Blank

1,1,2-Trichloroethane	ND	1							
Trichloroethene (TCE)	ND	1							
Trichlorofluoromethane	ND	1							
1,2,3-Trichloropropane	ND	2							
Vinyl chloride	ND	1							
Xylenes, Total	ND	1							
Surr: 1,2-Dichloroethane-d4	8.93	0	10	0	89.3	80	120	0	
Surr: 4-Bromofluorobenzene	9.804	0	10	0	98.0	80	120	0	
Surr: Dibromofluoromethane	9.308	0	10	0	93.1	80	120	0	
Surr: Toluene-d8	8.842	0	10	0	88.4	80	120	0	

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

CLIENT: San Juan Refining
 Work Order: 0503082
 Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT

Sample Duplicate

Sample ID	0503082-01C DUP	Batch ID:	R14878	Test Code:	E310.1	Units:	mg/L CaCO3	Analysis Date	3/21/2005	Prep Date		
Client ID:	Inj Well 1st Qtr	Run ID:	WC_050321B	SeqNo:	346141							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total (As CaCO3)	558	4	0	0	0	0	0	570	2.13	15		
Carbonate	ND	4	0	0	0	0	0	0	0	15		
Bicarbonate	558	4	0	0	0	0	0	570	2.13	15		

Sample ID	0503082-01C DUP	Batch ID:	R14878	Test Code:	E120.1	Units:	µmhos/cm	Analysis Date	3/21/2005	Prep Date		
Client ID:	Inj Well 1st Qtr	Run ID:	WC_050321C	SeqNo:	346152							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Specific Conductance	4490	0.01	0	0	0	0	0	4480	0.223	20		

Sample ID	0503082-01C DUP	Batch ID:	R14878	Test Code:	E150.1	Units:	pH units	Analysis Date	3/21/2005	Prep Date		
Client ID:	Inj Well 1st Qtr	Run ID:	WC_050321D	SeqNo:	346157							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
pH	8.15	0.01	0	0	0	0	0	0				

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

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Hall Environmental Analysis Laboratory

Date: 23-Mar-05

CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	LCS	Batch ID: R14778	Test Code: E300	Units: mg/L	Analysis Date	3/8/2005	Prep Date					
Client ID:			Run ID: LC_050308A			SeqNo: 343542						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Chloride	4.671	0.1	5	0	93.4	90	110	0				
Sulfate	9.421	0.5	10	0	94.2	90	110	0				

Sample ID	LCS	Batch ID: R14802	Test Code: E300	Units: mg/L	Analysis Date	3/10/2005	Prep Date					
Client ID:			Run ID: LC_050310A			SeqNo: 344018						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Chloride	4.808	0.1	5	0	96.2	90	110	0				
Sulfate	9.692	0.5	10	0	96.9	90	110	0				

Sample ID	100ng lcs Sat	Batch ID: R14814	Test Code: SW8260B	Units: µg/L	Analysis Date	3/12/2005	Prep Date					
Client ID:			Run ID: VAL_050308E			SeqNo: 344275						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	20.81	1	20	0	104	80	130	0				
Toluene	23.72	1	20	0	119	87.5	128	0				
Chlorobenzene	22.75	1	20	0	114	76.2	130	0				
1,1-Dichloroethene	19.34	1	20	0	96.7	73.3	130	0				
Trichloroethene (TCE)	18.07	1	20	0	90.3	76.9	130	0				

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

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CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
100ng lcs	R14824	SW8260B	µg/L	3/14/2005							
Client ID:		Run ID: VAL_050314A		SeqNo: 344530							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.1	1	20	0	106	80	130	0			
Toluene	24.51	1	20	0	123	87.5	128	0			
Chlorobenzene	24.8	1	20	0	124	76.2	130	0			
1,1-Dichloroethene	19.89	1	20	0	99.4	73.3	130	0			
Trichloroethene (TCE)	18.38	1	20	0	91.9	76.9	130	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-7546	7546	SW8270C	µg/L	3/10/2005	3/9/2005						
Client ID:		Run ID: ELMO_050310A		SeqNo: 344004							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	78.76	10	100	0	78.8	11	123	0			
4-Chloro-3-methylphenol	165.4	20	200	0	82.7	15.4	119	0			
2-Chlorophenol	165.8	10	200	0	82.9	12.2	122	0			
1,4-Dichlorobenzene	82.54	10	100	0	82.5	16.9	100	0			
2,4-Dinitrotoluene	81.46	10	100	0	81.5	13	138	0			
N-Nitrosodi-n-propylamine	81.62	10	100	0	81.6	9.93	122	0			
4-Nitrophenol	91.12	50	200	0	45.6	-20.5	87.4	0			
Pentachlorophenol	147.3	50	200	0	73.7	-0.355	114	0			
Phenol	94.98	10	200	0	47.5	7.53	73.1	0			
Pyrene	78.08	15	100	0	78.1	12.6	140	0			
1,2,4-Trichlorobenzene	79.54	10	100	0	79.5	17.4	98.7	0			

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

CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT
 Laboratory Control Spike Duplicate

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-7546	7546	SW8270C	µg/L	3/11/2005	3/9/2005						
Client ID:	Run ID:	ELMO_050311A	SeqNo:	344150							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	79.84	10	100	0	79.8	11	123	78.76	1.36	30.5	
4-Chloro-3-methylphenol	161.1	20	200	0	80.5	15.4	119	165.4	2.66	28.6	
2-Chlorophenol	160.8	10	200	0	80.4	12.2	122	165.8	3.05	107	
1,4-Dichlorobenzene	75.64	10	100	0	75.6	16.9	100	82.54	8.72	62.1	
2,4-Dinitrotoluene	86.42	10	100	0	86.4	13	138	81.46	5.91	14.7	
N-Nitrosodi-n-propylamine	78.5	10	100	0	78.5	9.93	122	81.62	3.90	30.3	
4-Nitrophenol	92.48	50	200	0	46.2	12.5	87.4	91.12	1.48	36.3	
Pentachlorophenol	166.6	50	200	0	83.3	3.55	114	147.3	12.3	49	
Phenol	91.38	10	200	0	45.7	7.53	73.1	94.98	3.86	52.4	
Pyrene	80.4	15	100	0	80.4	12.6	140	78.08	2.93	16.3	
1,2,4-Trichlorobenzene	75.38	10	100	0	75.4	17.4	98.7	79.54	5.37	36.4	

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-7565	7565	SW7470	mg/L	3/11/2005	3/11/2005						
Client ID:	Run ID:	MI-LA254_050311B	SeqNo:	344161							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004999	0.0002	0.005	0	100	75.2	134	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-7565	7565	SW7470	mg/L	3/11/2005	3/11/2005						
Client ID:	Run ID:	MI-LA254_050311B	SeqNo:	344178							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005187	0.0002	0.005	0	104	75.2	134	0.004999	3.69	0	

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

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CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-7560	7560	SW6010A	mg/L	3/14/2005 11:27:19 AM	3/11/2005						
Client ID:	Run ID:	ICP_050314B	SeqNo:	344421							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5174	0.02	0.5	0	103	80	120	0			
Barium	0.4933	0.02	0.5	0	98.7	80	120	0			
Cadmium	0.4779	0.002	0.5	0.001447	95.3	80	120	0			
Chromium	0.5013	0.006	0.5	0	100	80	120	0			
Lead	0.4769	0.005	0.5	0	95.4	80	120	0			
Selenium	0.4757	0.05	0.5	0	95.1	80	120	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-7560	7560	SW6010A	mg/L	3/14/2005 11:30:32 AM	3/11/2005						
Client ID:	Run ID:	ICP_050314B	SeqNo:	344422							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5261	0.02	0.5	0	105	80	120	0.5174	1.67	20	
Barium	0.4949	0.02	0.5	0	99.0	80	120	0.4933	0.312	20	
Cadmium	0.4744	0.002	0.5	0.001447	94.6	80	120	0.4779	0.739	20	
Chromium	0.4975	0.006	0.5	0	99.5	80	120	0.5013	0.759	20	
Lead	0.4726	0.005	0.5	0	94.5	80	120	0.4769	0.909	20	
Selenium	0.4632	0.05	0.5	0	92.6	80	120	0.4757	2.66	20	

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-7560	7560	SW6010A	mg/L	3/14/2005 1:44:00 PM	3/11/2005						
Client ID:	Run ID:	ICP_050314B	SeqNo:	344457							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	50.51	1	50	0	101	80	120	0			
Magnesium	51.76	1	50	0	104	80	120	0			
Potassium	51.73	1	50	0	103	80	120	0			
Silver	0.485	0.005	0.5	0	97.0	80	120	0			
Sodium	53.91	1	50	0	108	80	120	0			

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

2/2/24

CLIENT: San Juan Refining
Work Order: 0503082
Project: Injection Well - 1st Qtr 2005

QC SUMMARY REPORT
 Laboratory Control Spike Duplicate

Sample ID	LCSD-7560	Batch ID: 7560	Test Code: SW6010A	Units: mg/L	Analysis Date	3/14/2005 1:46:29 PM	Prep Date	3/11/2005				
Client ID:	Run ID: ICP_050314B			SeqNo:	344458							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Calcium	50.85	1	50	0	102	80	120	50.51	0.673	20		
Magnesium	51.97	1	50	0	104	80	120	51.76	0.406	20		
Potassium	51.86	1	50	0	104	80	120	51.73	0.247	20		
Silver	0.4765	0.005	0.5	0	95.3	80	120	0.485	1.77	20		
Sodium	55.22	1	50	0	110	80	120	53.91	2.41	20		

23/24

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:

3/8/2005

Work Order Number 0503082

Received by AT

Checklist completed by

[Handwritten Signature]

3/8/05

Signature

Date

Matrix

Carrier name UPS

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

Container/Temp Blank temperature? **3°** 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

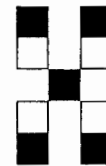
Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
 Std Level 4
 Other: _____
 Project Name: Injection Well - 1st QTR - 2005



HALL ENVIRONMENTAL ANALYSIS LABORATORY
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 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com

Client: SAN Juan Refining
 Address: #50 Rd 4990
Bloomfield, NM
87413
 Phone #: 505-632-4110
 Fax #: 505-632-3911

Project #: _____
 Project Manager: _____
 Sampler: Cindy Hurtado
 Sample Temperature: 3

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
3/07/05	11AM	H ₂ O	Inji. Well 1 st QTR	3-VOA	X		056382-1
				1-liter			amber
				1-500ml		X	
				1-250ml			
				1-500ml			
				1-250ml			NA OK
				1-250ml			ZN Acetate
			Trip Blank				-2

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals <u>Na, Mg, Ca, K</u>	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	EC, pH, SO ₄ , Alk, Cl	Ignitability, Corrosivity	Reactivity	Sulfide	Air Bubbles or Headspace (Y or N)
										X						
											X					
							X					X				
													X			
														X		
															X	

Date: 3/07/05 Time: 2PM Relinquished By: (Signature) Cindy Hurtado
 Received By: (Signature) [Signature] 3/8/05
 Date: _____ Time: _____ Relinquished By: (Signature) _____
 Received By: (Signature) _____

Remarks: _____