

UICI - ____11____

QUARTERLY REPORTS

May 15, 2017

Carl Chavez
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

FedEx #: 7791 4593 4953

RE: 1st Quarter 2017 Injection Well Report
Western Refining Southwest, Inc. - Bloomfield Terminal
Class I (Non-Hazardous) Disposal Well UICI-011 (WDW #2)
API#: 30-045-35747

Dear Mr. Chavez;

Pursuant to Condition 2.I. of the UICI-011 Injection Well Permit, enclosed is the above referenced quarterly report summarizing the operations of the Class I injection well located at the Western Refining (Western) Bloomfield Terminal facility in Bloomfield, NM. The well was placed into service on March 8, 2017. This report provides a summary of the initial integrity testing performed prior to full operation of the well, and a summary of operational data since March 8, 2017 through March 31, 2017.

If you should have any questions or require additional information, please do not hesitate to contact me at 505-632-4166 or kelly.robinson@wnr.com.

Sincerely,



Kelly R. Robinson
Environmental Supervisor - Logistics
Western Refining

Cc: Randy Schmaltz (WNR)

TABLE 1

WESTERN REFINING SOUTHWEST, INC. - BLOOMFIELD TERMINAL
P.O. BOX 159
BLOOMFIELD, NEW MEXICO 87413

QUARTERLY INJECTION WELL REPORT
DISCHARGE PERMIT UICI-011 (WDW #2)
U.L: H, SEC 27, T29N, R11W
API #: 30-045-35747

PERIOD 2015	AMOUNT OF WATER FROM RIVER (GALLONS)	AMOUNT FROM WWTP (GALLONS)	TOTALIZER AMOUNT INJECTED (GALLONS)	DOWN- TIME (HRS)	INJECTION PRESSURE			ANNULAR PRESSURE			ON-LINE FLOW RATES		
					MAX (PSIA)	MIN (PSIA)	AVG (PSIA)	MAX (PSIA)	MIN (PSIA)	AVG (PSIA)	MAX (GPM)	MIN (GPM)	AVG (GPM)
JAN	651	2,335,000	0	744	-	-	-	-	-	-	-	-	-
FEB	0	1,001,000	0	672	-	-	-	-	-	-	-	-	-
MAR	0	989,000	205,380	364	1,451	0	1,103	48	0	14	67	0	-
APR	-	-	-	-	-	-	-	-	-	-	-	-	-
MAY	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN	-	-	-	-	-	-	-	-	-	-	-	-	-
JUL	-	-	-	-	-	-	-	-	-	-	-	-	-
AUG	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP	-	-	-	-	-	-	-	-	-	-	-	-	-
OCT	-	-	-	-	-	-	-	-	-	-	-	-	-
NOV	-	-	-	-	-	-	-	-	-	-	-	-	-
DEC	-	-	-	-	-	-	-	-	-	-	-	-	-

The total amount injected in 2015 is:

205,380 gallons

NOTE: Well was abandoned October 28, 2015

CERTIFICATION:

DATE:

5/15/2017

Note: Well officially brought on-line full time March 8, 2017.

Analytical Reports and Summary

January – March 2017

Injection Well
2017 Quarterly Analytical Summary

	Toxicity Characteristics (40 CFR261.24)	WQCC (20.6.2.3103 NMAC)	1st Quarter
Volatile Organic Compounds (ug/L)			3/31/2017
1,1,1,2-Tetrachloroethane			< 5.0
1,1,1-Trichloroethane		60	< 5.0
1,1,2,2-Tetrachloroethane		10	< 10
1,1,2-Trichloroethane		10	< 5.0
1,1-Dichloroethane		25	< 5.0
1,1-Dichloroethene		5	< 5.0
1,1-Dichloropropene			< 5.0
1,2,3-Trichlorobenzene			< 5.0
1,2,3-Trichloropropane			< 10
1,2,4-Trichlorobenzene			< 5.0
1,2,4-Trimethylbenzene			< 5.0
1,2-Dibromo-3-chloropropane			< 20
1,2-Dibromoethane (EDB)		0.1	< 5.0
1,2-Dichlorobenzene			< 5.0
1,2-Dichloroethane (EDC)	500	10	< 5.0
1,2-Dichloropropane			< 5.0
1,3,5-Trimethylbenzene			< 5.0
1,3-Dichlorobenzene			< 5.0
1,3-Dichloropropane			< 5.0
1,4-Dichlorobenzene	7500		< 5.0
1-Methylnaphthalene			< 20
2,2-Dichloropropane			< 10
2-Butanone			60
2-Chlorotoluene			< 5.0
2-Hexanone			< 50
2-Methylnaphthalene			< 20
4-Chlorotoluene			< 5.0
4-Isopropyltoluene			190
4-Methyl-2-pentanone			< 50
Acetone			860
Benzene	500	10	< 5.0
Bromobenzene			< 5.0
Bromodichloromethane			< 5.0
Bromoform			< 5.0
Bromomethane			< 15
Carbon disulfide			< 50
Carbon Tetrachloride	500	10	< 5.0
Chlorobenzene	100000		< 5.0
Chloroethane			< 10
Chloroform	6000	100	< 5.0
Chloromethane			< 15
cis-1,2-DCE			< 5.0
cis-1,3-Dichloropropene			< 5.0
Dibromochloromethane			< 5.0
Dibromomethane			< 5.0
Dichlorodifluoromethane			< 5.0
Ethylbenzene		750	< 5.0
Hexachlorobutadiene	500		< 5.0
Isopropylbenzene			< 5.0
Methyl tert-butyl ether (MTBE)			< 5.0
Methylene Chloride		100	< 15
Naphthalene			< 10
n-Butylbenzene			< 15
n-Propylbenzene			< 5.0

Injection Well

2017 Quarterly Analytical Summary

	Toxicity Characteristics (40 CFR261.24)	WQCC (20.6.2.3103 NMAC)	1st Quarter
sec-Butylbenzene			< 5.0
Styrene			< 5.0
tert-Butylbenzene			< 5.0
Tetrachloroethene (PCE)		20	< 5.0
Toluene		750	< 5.0
trans-1,2-DCE			< 5.0
trans-1,3-Dichloropropene			< 5.0
Trichloroethene (TCE)		100	< 5.0
Trichlorofluoromethane			< 5.0
Vinyl chloride	200	1	< 5.0
Xylenes, Total		620	16
Semi-Volatile Organic Compounds (ug/L)			
1,2,4-Trichlorobenzene			< 10
1,2-Dichlorobenzene			< 10
1,3-Dichlorobenzene			< 10
1,4-Dichlorobenzene	7500		< 10
1-Methylnaphthalene			< 10
2,4,5-Trichlorophenol			< 10
2,4,6-Trichlorophenol	2000		< 10
2,4-Dichlorophenol			< 20
2,4-Dimethylphenol			< 10
2,4-Dinitrophenol			< 20
2,4-Dinitrotoluene	130		< 10
2,6-Dinitrotoluene			< 10
2-Chloronaphthalene			< 10
2-Chlorophenol			< 10
2-Methylnaphthalene			< 10
2-Methylphenol			< 10
2-Nitroaniline			< 10
2-Nitrophenol			< 10
3,3'-Dichlorobenzidine			< 10
3+4-Methylphenol			< 10
3-Nitroaniline			< 10
4,6-Dinitro-2-methylphenol			< 20
4-Bromophenyl phenyl ether			< 10
4-Chloro-3-methylphenol			< 10
4-Chloroaniline			< 10
4-Chlorophenyl phenyl ether			< 10
4-Nitroaniline			< 10
4-Nitrophenol			< 10
Acenaphthene			< 10
Acenaphthylene			< 10
Aniline			< 10
Anthracene			< 10
Azobenzene			< 10
Benz(a)anthracene			< 10
Benzo(a)pyrene		0.7	< 10
Benzo(b)fluoranthene			< 10
Benzo(g,h,i)perylene			< 10
Benzo(k)fluoranthene			< 10
Benzoic acid			< 20
Benzyl alcohol			< 10
Bis(2-chloroethoxy)methane			< 10
Bis(2-chloroethyl)ether			< 10
Bis(2-chloroisopropyl)ether			< 10

Injection Well 2017 Quarterly Analytical Summary

	Toxicity Characteristics (40 CFR261.24)	WQCC (20.6.2.3103 NMAC)	1st Quarter
Bis(2-ethylhexyl)phthalate			< 10
Butyl benzyl phthalate			< 10
Carbazole			< 10
Chrysene			< 10
Dibenz(a,h)anthracene			< 10
Dibenzofuran			< 10
Diethyl phthalate			< 10
Dimethyl phthalate			< 10
Di-n-butyl phthalate			< 10
Di-n-octyl phthalate			< 10
Fluoranthene			< 10
Fluorene			< 10
Hexachlorobenzene	130		< 10
Hexachlorobutadiene	500		< 10
Hexachlorocyclopentadiene			< 10
Hexachloroethane	3000		< 10
Indeno(1,2,3-cd)pyrene			< 10
Isophorone			< 10
Naphthalene			< 10
Nitrobenzene	2000		< 10
N-Nitrosodimethylamine			< 10
N-Nitrosodi-n-propylamine			< 10
N-Nitrosodiphenylamine			< 10
Pentachlorophenol	100000		< 20
Phenanthrene			< 10
Phenol		5	< 10
Pyrene			< 10
Pyridine	5000		< 10
General Chemistry (mg/L unless otherwise stated)			
Specific Conductance (umhos/cm)			2200
Bromide			1.7
Chloride		250 *	410
Fluoride			<0.050
Nitrate + Nitrite as N			<1.0
Phosphorus, Orthophosphate (As P)			< 2.5
Sulfate		600 *	59
Total Dissolved Solids		10000	1470
pH (pH Units)			7.32
Bicarbonate (As CaCO3)			415
Carbonate (As CaCO3)			<2.0
Total Alkalinity (as CaCO3)			415
Oxidation-Reduction Potential (mV)			184
Specific Gravity			0.9991
Total Metals (mg/L)			
Arsenic	5.0		< 0.020
Barium	100.0		0.34
Cadmium	1.0		< 0.0020
Calcium			100
Chromium	5.0		< 0.0060
Lead	5.0		< 0.0050
Magnesium			26
Potassium			8.4
Selenium	1.0		< 0.050
Silver	5.0		< 0.0050
Sodium			340
Mercury	0.2	0.002	<0.00020
Dissolved Metals (mg/L)			
Calcium		0.01	100
Magnesium			26
Potassium			8.1

Injection Well **2017 Quarterly Analytical Summary**

	Toxicity Characteristics (40 CFR261.24)	WQCC (20.6.2.3103 NMAC)	1st Quarter
Sodium			330
Ignitability, Corrosivity, and Reactivity			
Reactive Cyanide (mg/L)			<0.0500
Reactive Sulfide (mg/L)			<20
Ignitability (° F)	< 140° F		<30
Corrosivity (ph Units)	≤ 2 or ≥ 12.5	6-9	7.32

Notes:

* = Screening level is to apply to dissolved phase result; therefore comparison is bias high.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 17, 2017

Kelly Robinson

Western Refining Southwest, Inc.

#50 CR 4990

Bloomfield, NM 87413

TEL: (505) 632-4135

FAX

RE: WDW 2 3-31-17

OrderNo.: 1704017

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/1/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1704017

Date Reported: 4/17/2017

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: WDW 2 3-31-17

Collection Date: 3/31/2017 7:30:00 AM

Lab ID: 1704017-001

Matrix: AQUEOUS

Received Date: 4/1/2017 11:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY							Analyst: LGT
Specific Gravity	0.9991		0		1	4/5/2017 4:15:00 PM	R41912
EPA METHOD 300.0: ANIONS							Analyst: MRA
Fluoride	ND	0.50		mg/L	5	4/5/2017 3:48:31 AM	R41868
Chloride	410	25	*	mg/L	50	4/7/2017 3:26:42 AM	A41955
Bromide	1.7	0.50		mg/L	5	4/5/2017 3:48:31 AM	R41868
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	4/5/2017 3:48:31 AM	R41868
Sulfate	59	2.5		mg/L	5	4/5/2017 3:48:31 AM	R41868
Nitrate+Nitrite as N	ND	1.0		mg/L	5	4/5/2017 4:25:46 AM	R41868
SM2510B: SPECIFIC CONDUCTANCE							Analyst: MRA
Conductivity	2200	1.0		µmhos/cm	1	4/11/2017 2:24:41 PM	R42064
SM2320B: ALKALINITY							Analyst: MRA
Bicarbonate (As CaCO3)	415.0	20.00		mg/L CaCO3	1	4/11/2017 2:24:41 PM	R42064
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	4/11/2017 2:24:41 PM	R42064
Total Alkalinity (as CaCO3)	415.0	20.00		mg/L CaCO3	1	4/11/2017 2:24:41 PM	R42064
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	1470	100	*D	mg/L	1	4/8/2017 1:38:00 PM	31115
EPA METHOD 7470: MERCURY							Analyst: MED
Mercury	ND	0.00020		mg/L	1	4/5/2017 10:17:21 AM	31063
EPA METHOD 6010B: DISSOLVED METALS							Analyst: MED
Calcium	100	5.0		mg/L	5	4/5/2017 11:02:31 AM	A41903
Magnesium	26	1.0		mg/L	1	4/5/2017 10:57:43 AM	A41903
Potassium	8.1	1.0		mg/L	1	4/5/2017 10:57:43 AM	A41903
Sodium	330	5.0		mg/L	5	4/5/2017 11:02:31 AM	A41903
EPA 6010B: TOTAL RECOVERABLE METALS							Analyst: MED
Arsenic	ND	0.020		mg/L	1	4/5/2017 10:34:53 AM	31057
Barium	0.34	0.020		mg/L	1	4/5/2017 10:34:53 AM	31057
Cadmium	ND	0.0020		mg/L	1	4/5/2017 10:34:53 AM	31057
Calcium	100	5.0		mg/L	5	4/5/2017 11:11:34 AM	31057
Chromium	ND	0.0060		mg/L	1	4/5/2017 10:34:53 AM	31057
Lead	ND	0.0050		mg/L	1	4/5/2017 10:34:53 AM	31057
Magnesium	26	1.0		mg/L	1	4/5/2017 10:34:53 AM	31057
Potassium	8.4	1.0		mg/L	1	4/5/2017 10:34:53 AM	31057
Selenium	ND	0.050		mg/L	1	4/5/2017 10:34:53 AM	31057
Silver	ND	0.0050		mg/L	1	4/5/2017 10:34:53 AM	31057
Sodium	340	5.0		mg/L	5	4/5/2017 11:11:34 AM	31057

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1704017

Date Reported: 4/17/2017

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: WDW 2 3-31-17

Collection Date: 3/31/2017 7:30:00 AM

Lab ID: 1704017-001

Matrix: AQUEOUS

Received Date: 4/1/2017 11:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Acenaphthylene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Aniline	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Anthracene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Azobenzene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Benz(a)anthracene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Benzo(a)pyrene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Benzo(b)fluoranthene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Benzo(k)fluoranthene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Benzoic acid	ND	20		µg/L	1	4/14/2017 5:19:57 PM	31059
Benzyl alcohol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Bis(2-chloroethyl)ether	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Butyl benzyl phthalate	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Carbazole	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
4-Chloro-3-methylphenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
4-Chloroaniline	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2-Chloronaphthalene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2-Chlorophenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Chrysene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Di-n-butyl phthalate	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Di-n-octyl phthalate	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Dibenzofuran	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
1,2-Dichlorobenzene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
1,3-Dichlorobenzene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
1,4-Dichlorobenzene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
3,3'-Dichlorobenzidine	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Diethyl phthalate	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Dimethyl phthalate	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2,4-Dichlorophenol	ND	20		µg/L	1	4/14/2017 5:19:57 PM	31059
2,4-Dimethylphenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	4/14/2017 5:19:57 PM	31059
2,4-Dinitrophenol	ND	20		µg/L	1	4/14/2017 5:19:57 PM	31059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1704017

Date Reported: 4/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: WDW 2 3-31-17

Collection Date: 3/31/2017 7:30:00 AM

Lab ID: 1704017-001

Matrix: AQUEOUS

Received Date: 4/1/2017 11:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
2,4-Dinitrotoluene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2,6-Dinitrotoluene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Fluoranthene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Fluorene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Hexachlorobenzene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Hexachlorobutadiene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Hexachloroethane	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Isophorone	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
1-Methylnaphthalene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2-Methylnaphthalene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2-Methylphenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
3+4-Methylphenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
N-Nitrosodimethylamine	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Naphthalene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2-Nitroaniline	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
3-Nitroaniline	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
4-Nitroaniline	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Nitrobenzene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2-Nitrophenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
4-Nitrophenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Pentachlorophenol	ND	20		µg/L	1	4/14/2017 5:19:57 PM	31059
Phenanthrene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Phenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Pyrene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Pyridine	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/14/2017 5:19:57 PM	31059
Surr: 2-Fluorophenol	29.5	15-98.1		%Rec	1	4/14/2017 5:19:57 PM	31059
Surr: Phenol-d5	24.3	15-80.7		%Rec	1	4/14/2017 5:19:57 PM	31059
Surr: 2,4,6-Tribromophenol	39.6	15-112		%Rec	1	4/14/2017 5:19:57 PM	31059
Surr: Nitrobenzene-d5	62.8	27.2-90.7		%Rec	1	4/14/2017 5:19:57 PM	31059
Surr: 2-Fluorobiphenyl	47.4	23.3-85.6		%Rec	1	4/14/2017 5:19:57 PM	31059
Surr: 4-Terphenyl-d14	36.6	27.6-107		%Rec	1	4/14/2017 5:19:57 PM	31059

EPA METHOD 8260B: VOLATILESAnalyst: **rde**

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1704017

Date Reported: 4/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: WDW 2 3-31-17

Collection Date: 3/31/2017 7:30:00 AM

Lab ID: 1704017-001

Matrix: AQUEOUS

Received Date: 4/1/2017 11:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: rde
Benzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Toluene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Ethylbenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,2,4-Trimethylbenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Naphthalene	ND	10	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1-Methylnaphthalene	ND	20	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
2-Methylnaphthalene	ND	20	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Acetone	860	50	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Bromobenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Bromodichloromethane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Bromoform	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Bromomethane	ND	15	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
2-Butanone	60	50	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Carbon disulfide	ND	50	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Carbon Tetrachloride	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Chlorobenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Chloroethane	ND	10	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Chloroform	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Chloromethane	ND	15	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
2-Chlorotoluene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
4-Chlorotoluene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
cis-1,2-DCE	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,2-Dibromo-3-chloropropane	ND	20	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Dibromochloromethane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Dibromomethane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,2-Dichlorobenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,3-Dichlorobenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,4-Dichlorobenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Dichlorodifluoromethane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,1-Dichloroethane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,1-Dichloroethene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,2-Dichloropropane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,3-Dichloropropane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
2,2-Dichloropropane	ND	10	D	µg/L	10	4/3/2017 11:35:00 PM	R41854

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1704017

Date Reported: 4/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Injection Well

Project: WDW 2 3-31-17

Collection Date: 3/31/2017 7:30:00 AM

Lab ID: 1704017-001

Matrix: AQUEOUS

Received Date: 4/1/2017 11:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: rde
1,1-Dichloropropene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Hexachlorobutadiene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
2-Hexanone	ND	50	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Isopropylbenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
4-Isopropyltoluene	190	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
4-Methyl-2-pentanone	ND	50	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Methylene Chloride	ND	15	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
n-Butylbenzene	ND	15	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
n-Propylbenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
sec-Butylbenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Styrene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
tert-Butylbenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
trans-1,2-DCE	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,1,1-Trichloroethane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,1,2-Trichloroethane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Trichloroethene (TCE)	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Trichlorofluoromethane	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
1,2,3-Trichloropropane	ND	10	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Vinyl chloride	ND	5.0	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Xylenes, Total	16	7.5	D	µg/L	10	4/3/2017 11:35:00 PM	R41854
Surr: 1,2-Dichloroethane-d4	86.3	70-130	D	%Rec	10	4/3/2017 11:35:00 PM	R41854
Surr: 4-Bromofluorobenzene	105	70-130	D	%Rec	10	4/3/2017 11:35:00 PM	R41854
Surr: Dibromofluoromethane	103	70-130	D	%Rec	10	4/3/2017 11:35:00 PM	R41854
Surr: Toluene-d8	97.8	70-130	D	%Rec	10	4/3/2017 11:35:00 PM	R41854

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



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Cheyenne, WY 866.686.7175 • Helena, MT 877.472.0711

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: Not Indicated
Lab ID: B17040170-001
Client Sample ID: 1704017-001F,G Injection Well

Report Date: 04/14/17
Collection Date: 03/31/17 07:30
Date Received: 04/04/17
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Oxidation-Reduction Potential	184	mV	H			A2580 B	04/12/17 14:52 / dah
IGNITABILITY							
Flash Point (Ignitability)	>200	°F		30		SW1010A	04/14/17 08:44 / dah
CORROSIVITY							
pH	7.32	s.u.		0.10		SW9040C	04/10/17 13:14 / dah
REACTIVITY							
Cyanide, Reactive	ND	mg/kg		0.05	250	SW846 Ch 7	04/13/17 12:25 / mas
Sulfide, Reactive	ND	mg/kg		20	500	SW846 Ch 7	04/11/17 09:00 / dah

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.

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



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Denver, CO 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental

Report Date: 04/14/17

Project: Not Indicated

Work Order: B17040170

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: R277927	
Lab ID: B17040170-001ADUP	Sample Duplicate					Run: ORION 720A HZW_170412A			04/12/17 14:52	
Oxidation-Reduction Potential		187	mV					1.5	20	
Lab ID: LCS2									04/12/17 14:52	
Laboratory Control Sample						Run: ORION 720A HZW_170412A				
Oxidation-Reduction Potential		300	mV		100	97	103			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental

Report Date: 04/14/17

Project: Not Indicated

Work Order: B17040170

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW1010A									Batch: R278069	
Lab ID: B17040539-008ADUP		Sample Duplicate			Run: PENSKY MARTEN CLOSED				04/14/17 08:44	
Flash Point (Ignitability)		77	°F	30				5.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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Billings, MT 800.735.4489 • Helena, MT 888.235.0515
Butte, MT 866.686.7175 • Helena, MT 877.472.0711**QA/QC Summary Report**

Prepared by Billings, MT Branch

Client: Hall Environmental**Project:** Not Indicated**Report Date:** 04/14/17**Work Order:** B17040170

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW846 Ch 7										Batch: 107762
Lab ID: MB-107762		Method Blank					Run: FIA202-B_170413A			04/13/17 12:24
Cyanide, Reactive		ND	mg/kg	0.05						
Lab ID: B17040591-001DMS		Sample Matrix Spike					Run: FIA202-B_170413A			04/13/17 12:30
Cyanide, Reactive		0.87	mg/kg	0.050	87	80	120			
Lab ID: B17040591-001DMSD		Sample Matrix Spike Duplicate					Run: FIA202-B_170413A			04/13/17 12:31
Cyanide, Reactive		0.87	mg/kg	0.050	87	80	120	0.0	10	
Method: SW846 Ch 7										Batch: 107762
Lab ID: MB-107762		Method Blank					Run: REACTIVE SULFIDE/CYANID			03/24/17 09:40
Sulfide, Reactive		ND	mg/kg	10						
Lab ID: LCS-107762		Laboratory Control Sample					Run: REACTIVE SULFIDE/CYANID			03/24/17 09:40
Sulfide, Reactive		12	mg/kg	20	107	70	130			
Lab ID: B17031461-001BDUP		Sample Duplicate					Run: REACTIVE SULFIDE/CYANID			03/24/17 09:40
Sulfide, Reactive		ND	mg/kg	20						10
Method: SW846 Ch 7										Batch: 107762
Lab ID: MB-107762		Method Blank					Run: REACTIVE SULFIDE/CYANID			04/11/17 09:00
Sulfide, Reactive		ND	mg/kg	10						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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Gibbsville: WY 888.686.7175 • Helena: MT 877.472.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental

Report Date: 04/14/17

Project: Not Indicated

Work Order: B17040170

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9040C								Analytical Run: ORION 720A HZW_170410B		
Lab ID: ICV		Initial Calibration Verification Standard								04/10/17 13:14
pH		7.99	s.u.	0.10	100	98	102			
Method: SW9040C										Batch: R277781
Lab ID: B17040170-001ADUP		Sample Duplicate								Run: ORION 720A HZW_170410B
pH		7.38	s.u.	0.10				0.8		04/10/17 13:14
										3

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R41868	RunNo:	41868					
Prep Date:		Analysis Date:	4/4/2017	SeqNo:	1315703	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS	SampType:	ics	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R41868	RunNo:	41868					
Prep Date:		Analysis Date:	4/4/2017	SeqNo:	1315704	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Bromide	2.4	0.10	2.500	0	95.4	90	110			
Phosphorus, Orthophosphate (As P)	5.0	0.50	5.000	0	99.6	90	110			
Sulfate	9.6	0.50	10.00	0	96.2	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	97.4	90	110			

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	A41955	RunNo:	41955					
Prep Date:		Analysis Date:	4/6/2017	SeqNo:	1317699	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	ics	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	A41955	RunNo:	41955					
Prep Date:		Analysis Date:	4/6/2017	SeqNo:	1317700	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.9	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R41854			RunNo: 41854					
Prep Date:		Analysis Date: 4/3/2017			SeqNo: 1313978		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	21	1.0	20.00	0	104	70	130			
Chlorobenzene	22	1.0	20.00	0	108	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	116	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	8.5		10.00		85.1	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.7		10.00		97.3	70	130			

Sample ID	vsb deli	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES						
Client ID:	PBW	Batch ID: R41854		RunNo: 41854						
Prep Date:		Analysis Date: 4/3/2017		SeqNo: 1313980			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	vsb deli	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R41854	RunNo:	41854					
Prep Date:		Analysis Date:	4/3/2017	SeqNo:	1313980	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	vsb deli	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R41854			RunNo: 41854					
Prep Date:		Analysis Date: 4/3/2017			SeqNo: 1313980		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.4		10.00		84.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	1704017-001bms	SampType:	MS		TestCode:	EPA Method 8270C: Semivolatiles				
Client ID:	Injection Well	Batch ID:	31059		RunNo:	42041				
Prep Date:	4/4/2017	Analysis Date:	4/6/2017		SeqNo:	1320412	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	51	10	100.0	0	50.9	18.1	108			
4-Chloro-3-methylphenol	120	10	200.0	0	59.9	15	111			
2-Chlorophenol	120	10	200.0	0	61.4	15	113			
1,4-Dichlorobenzene	34	10	100.0	0	33.5	21	81.3			
2,4-Dinitrotoluene	49	10	100.0	0	49.0	27.4	101			
N-Nitrosodi-n-propylamine	64	10	100.0	13.82	49.8	24.9	107			
4-Nitrophenol	67	10	200.0	0	33.4	15	62.2			
Pentachlorophenol	87	20	200.0	0	43.6	15	96.9			
Phenol	81	10	200.0	3.520	38.6	15	64.7			
Pyrene	51	10	100.0	0	51.4	29.2	111			
1,2,4-Trichlorobenzene	38	10	100.0	0	37.6	22.9	94.8			
Surr: 2-Fluorophenol	90		200.0		45.2	15	98.1			
Surr: Phenol-d5	65		200.0		32.7	15	80.7			
Surr: 2,4,6-Tribromophenol	100		200.0		51.5	15	112			
Surr: Nitrobenzene-d5	59		100.0		59.3	27.2	90.7			
Surr: 2-Fluorobiphenyl	50		100.0		50.3	23.3	85.6			
Surr: 4-Terphenyl-d14	43		100.0		42.9	27.6	107			

Sample ID	1704017-001bmsd	SampType:	MSD		TestCode:	EPA Method 8270C: Semivolatiles				
Client ID:	Injection Well	Batch ID:	31059		RunNo:	42041				
Prep Date:	4/4/2017	Analysis Date:	4/6/2017		SeqNo:	1320413	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	40	10	100.0	0	40.2	18.1	108	23.6	30.5	
4-Chloro-3-methylphenol	98	10	200.0	0	49.0	15	111	19.9	50	
2-Chlorophenol	93	10	200.0	0	46.4	15	113	27.9	36.3	
1,4-Dichlorobenzene	25	10	100.0	0	24.6	21	81.3	30.7	42.1	
2,4-Dinitrotoluene	41	10	100.0	0	40.8	27.4	101	18.2	28.5	
N-Nitrosodi-n-propylamine	52	10	100.0	13.82	38.5	24.9	107	19.4	25.4	
4-Nitrophenol	50	10	200.0	0	25.2	15	62.2	28.1	50	
Pentachlorophenol	72	20	200.0	0	36.1	15	96.9	18.8	50	
Phenol	58	10	200.0	3.520	27.1	15	64.7	33.4	46.1	
Pyrene	45	10	100.0	0	44.7	29.2	111	14.0	34.3	
1,2,4-Trichlorobenzene	29	10	100.0	0	28.9	22.9	94.8	26.0	43.6	
Surr: 2-Fluorophenol	63		200.0		31.7	15	98.1	0	0	
Surr: Phenol-d5	49		200.0		24.4	15	80.7	0	0	
Surr: 2,4,6-Tribromophenol	89		200.0		44.7	15	112	0	0	
Surr: Nitrobenzene-d5	46		100.0		45.7	27.2	90.7	0	0	
Surr: 2-Fluorobiphenyl	42		100.0		41.9	23.3	85.6	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	1704017-001bmsd	SampType:	MSD		TestCode:	EPA Method 8270C: Semivolatiles				
Client ID:	Injection Well	Batch ID:	31059		RunNo:	42041				
Prep Date:	4/4/2017	Analysis Date:	4/6/2017		SeqNo:	1320413	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	35		100.0		35.2	27.6	107	0	0	

Sample ID	ics-31059	SampType: LCS			TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW	Batch ID: 31059			RunNo: 42041					
Prep Date:	4/4/2017	Analysis Date: 4/6/2017			SeqNo: 1320415		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	65	10	100.0	0	64.6	42.9	100			
4-Chloro-3-methylphenol	160	10	200.0	0	78.9	36.2	110			
2-Chlorophenol	150	10	200.0	0	74.7	33.4	97.8			
1,4-Dichlorobenzene	58	10	100.0	0	57.6	32.8	79.3			
2,4-Dinitrotoluene	63	10	100.0	0	63.0	34.9	107			
N-Nitrosodi-n-propylamine	83	10	100.0	0	82.8	30.7	111			
4-Nitrophenol	95	10	200.0	0	47.4	15	91.9			
Pentachlorophenol	120	20	200.0	0	58.6	33.3	93.5			
Phenol	110	10	200.0	0	56.0	20.9	86.4			
Pyrene	73	10	100.0	0	73.3	45.6	111			
1,2,4-Trichlorobenzene	60	10	100.0	0	59.9	38.7	88.2			
Surr: 2-Fluorophenol	130		200.0		63.8	15	98.1			
Surr: Phenol-d5	110		200.0		56.2	15	80.7			
Surr: 2,4,6-Tribromophenol	150		200.0		74.8	15	112			
Surr: Nitrobenzene-d5	73		100.0		73.1	27.2	90.7			
Surr: 2-Fluorobiphenyl	69		100.0		68.7	23.3	85.6			
Surr: 4-Terphenyl-d14	64		100.0		63.6	27.6	107			

Sample ID	mb-31059	SampType:	MBLK		TestCode:	EPA Method 8270C: Semivolatiles				
Client ID:	PBW	Batch ID:	31059		RunNo:	42041				
Prep Date:	4/4/2017	Analysis Date:	4/6/2017		SeqNo:	1320416	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	mb-31059	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	31059	RunNo:	42041					
Prep Date:	4/4/2017	Analysis Date:	4/6/2017	SeqNo:	1320416	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								
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								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	mb-31059	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	31059	RunNo:	42041					
Prep Date:	4/4/2017	Analysis Date:	4/6/2017	SeqNo:	1320416	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
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	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	10								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2-Fluorophenol	130		200.0		64.7	15	98.1			
Surr: Phenol-d5	92		200.0		45.9	15	80.7			
Surr: 2,4,6-Tribromophenol	160		200.0		80.0	15	112			
Surr: Nitrobenzene-d5	86		100.0		86.4	27.2	90.7			
Surr: 2-Fluorobiphenyl	74		100.0		73.9	23.3	85.6			
Surr: 4-Terphenyl-d14	68		100.0		67.7	27.6	107			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	MB-31063	SampType:	MBLK	TestCode:	EPA Method 7470: Mercury					
Client ID:	PBW	Batch ID:	31063	RunNo:	41900					
Prep Date:	4/4/2017	Analysis Date:	4/5/2017	SeqNo:	1316028	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-31063		SampType: LCS		TestCode: EPA Method 7470: Mercury					
Client ID:	LCSW		Batch ID: 31063		RunNo: 41900					
Prep Date:	4/4/2017		Analysis Date: 4/5/2017		SeqNo: 1316029		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.2	80	120			

Sample ID	1704017-001EMS			SampType:	MS		TestCode:	EPA Method 7470: Mercury			
Client ID:	Injection Well			Batch ID:	31063		RunNo:	41900			
Prep Date:	4/4/2017			Analysis Date:	4/5/2017		SeqNo:	1316034		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.0051	0.00020	0.005000	.00007989	101	75	125				

Sample ID	1704017-001EMSD			SampType:	MSD		TestCode:	EPA Method 7470: Mercury			
Client ID:	Injection Well		Batch ID:	31063		RunNo:	41900				
Prep Date:	4/4/2017		Analysis Date:	4/5/2017		SeqNo:	1316035		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.0053	0.00020	0.005000	.00007989	104	75	125	2.91	20		

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	MB-A	SampType:	MBLK	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	PBW	Batch ID:	A41903	RunNo:	41903					
Prep Date:		Analysis Date:	4/5/2017	SeqNo:	1316139	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS-A	SampType:	LCS	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	LCSW	Batch ID:	A41903	RunNo:	41903					
Prep Date:		Analysis Date:	4/5/2017	SeqNo:	1316140	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	103	80	120			
Magnesium	51	1.0	50.00	0	101	80	120			
Potassium	49	1.0	50.00	0	98.6	80	120			
Sodium	50	1.0	50.00	0	99.3	80	120			

Sample ID	1704017-001DMS	SampType:	MS	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	Injection Well	Batch ID:	A41903	RunNo:	41903					
Prep Date:		Analysis Date:	4/5/2017	SeqNo:	1316151	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	75	1.0	50.00	25.63	99.6	75	125			
Potassium	57	1.0	50.00	8.072	97.1	75	125			

Sample ID	1704017-001DMSD	SampType:	MSD	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	Injection Well	Batch ID:	A41903	RunNo:	41903					
Prep Date:		Analysis Date:	4/5/2017	SeqNo:	1316152	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	76	1.0	50.00	25.63	101	75	125	1.17	20	
Potassium	57	1.0	50.00	8.072	98.2	75	125	0.937	20	

Sample ID	1704017-001DMS	SampType:	MS	TestCode:	EPA Method 6010B: Dissolved Metals					
Client ID:	Injection Well	Batch ID:	A41903	RunNo:	41903					
Prep Date:		Analysis Date:	4/5/2017	SeqNo:	1316154	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	360	5.0	250.0	102.6	102	75	125			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	1704017-001DMSD			SampType:	MSD		TestCode:	EPA Method 6010B: Dissolved Metals			
Client ID:	Injection Well		Batch ID:	A41903		RunNo:	41903				
Prep Date:			Analysis Date:	4/5/2017		SeqNo:	1316155		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Calcium	360	5.0	250.0	102.6	102	75	125	0.0602	20		

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	MB-31057		SampType:	MBLK		TestCode:	EPA 6010B: Total Recoverable Metals			
Client ID:	PBW		Batch ID:	31057		RunNo:	41903			
Prep Date:	4/4/2017		Analysis Date:	4/5/2017		SeqNo:	1316127	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Selenium	ND	0.050								
Silver	ND	0.0050								
Sodium	ND	1.0								

Sample ID	LCS-31057		SampType:	LCS		TestCode:	EPA 6010B: Total Recoverable Metals			
Client ID:	LCSW		Batch ID:	31057		RunNo:	41903			
Prep Date:	4/4/2017		Analysis Date:	4/5/2017		SeqNo:	1316168	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	1.0	0.040	1.000	0	102	80	120			
Barium	0.98	0.040	1.000	0	98.2	80	120			
Cadmium	0.98	0.0040	1.000	0	98.1	80	120			
Calcium	100	2.0	100.0	0	103	80	120			
Chromium	0.98	0.012	1.000	0	98.2	80	120			
Lead	0.99	0.010	1.000	0	98.9	80	120			
Magnesium	100	2.0	100.0	0	101	80	120			
Potassium	98	2.0	100.0	0	97.6	80	120			
Selenium	1.0	0.10	1.000	0	102	80	120			
Silver	0.20	0.010	0.2000	0	99.9	80	120			
Sodium	99	2.0	100.0	0	99.1	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	mb-1	SampType:	mblk		TestCode:	SM2320B: Alkalinity				
Client ID:	PBW	Batch ID:	R42064		RunNo:	42064				
Prep Date:		Analysis Date:	4/11/2017		SeqNo:	1321188	Units:	mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	lcs-1 DOC-1 alk MR				SampType:	lcs					TestCode:	SM2320B: Alkalinity				
Client ID:	LCSW		Batch ID:		R42064		RunNo:		42064							
Prep Date:			Analysis Date:		4/11/2017		SeqNo:		1321189		Units: mg/L CaCO3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Total Alkalinity (as CaCO3)	80.08	20.00	80.00	0	100	90	110									

Sample ID	DOC-2 alk MRA	SampType:	lcs	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R42064	RunNo:	42064					
Prep Date:		Analysis Date:	4/11/2017	SeqNo:	1321190	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	80.76	20.00	80.00	0	101	90	110			

Sample ID	DOC-3 alk MRA	SampType:	lcs	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R42064	RunNo:	42064					
Prep Date:		Analysis Date:	4/11/2017	SeqNo:	1321191					
				Units:	mg/L CaCO3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	80.60	20.00	80.00	0	101	90	110			

Sample ID	DOC-4 alk MRA	SampType:	lcs	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R42064	RunNo:	42064					
Prep Date:		Analysis Date:	4/11/2017	SeqNo:	1321192	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	80.92	20.00	80.00	0	101	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704017

17-Apr-17

Client: Western Refining Southwest, Inc.

Project: WDW 2 3-31-17

Sample ID	MB-31115	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	PBW	Batch ID:	31115	RunNo:	41978
Prep Date:	4/6/2017	Analysis Date:	4/8/2017	SeqNo:	1318207 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	ND	20.0			

Sample ID	LCS-31115	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	LCSW	Batch ID:	31115	RunNo:	41978
Prep Date:	4/6/2017	Analysis Date:	4/8/2017	SeqNo:	1318208 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	1030	20.0	1000	0	103 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Western Refining Southw

Work Order Number: 1704017

RcptNo: 1

Received By: Lindsay Mangin

4/1/2017 11:30:00 AM

Completed By: Anne Thorne

4/3/2017 12:10:08 PM

Reviewed By: ISO

4/3/17

[Signature]

[Signature]

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☒ No ☒ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 3 2
(2) or (2) unless noted
Adjusted?
Checked by: A-04/03/17

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Client: Western Refining

Bloomfield, NM 87413

Phone #: 505-632-4169

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ **Standard** ☐ **Rush**

Project Name:

WDW#2 3-31-17

Project #:

PO# 12619031-2

Project Manager:

Kelly Robinson

Sampler: Matt Krakow

Sample Temperature

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	
3-31-17	7:30	H ₂ O	Injection Well	3.500mL Poly	Cold	-001
				1.500mL Poly	NaOH	-001
				1.500mL Poly	Zn Acetate	-001
				3.00As	HCL	-001
				2.1ltr Amb	Cold	-001
				1.500mL poly	Nitric acid	-001
				1.125 poly	HNO ₃	-001
				1.125 poly	H ₂ SO ₄	-001

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/31/17	1200	<i>[Signature]</i>	<i>[Signature]</i>	3/31/17	1200
Date:	Time:	Relinquished by:	Received by:	Date	Time
3/31/17	1800	<i>[Signature]</i>	<i>[Signature]</i>	04/01/17	1130

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of the

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:	see attached list
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

immediately or within a specified time period, or assess a civil penalty, or both (see Section 74-6-10 NMSA 1978). The compliance order may also include a suspension or termination of this Discharge Permit. OCD may also commence a civil action in district court for appropriate relief, including injunctive relief (see Section 74-6-10(A)(2) NMSA 1978). The Permittee may be subject to criminal penalties for discharging a water contaminant without a discharge permit or in violation of a condition of a discharge permit; making any false material statement, representation, certification or omission of material fact in a renewal application, record, report, plan or other document filed, submitted or required to be maintained under the Water Quality Act; falsifying, tampering with or rendering inaccurate any monitoring device, method or record required to be maintained under the Water Quality Act; or failing to monitor, sample or report as required by a Discharge Permit issued pursuant to a state or federal law or regulation (see Section 74-6-10.2 NMSA 1978).

2. GENERAL FACILITY OPERATIONS:

2.A. QUARTERLY MONITORING REQUIREMENTS FOR CLASS I NON-HAZARDOUS WASTE INJECTION WELL: The Permittee shall properly conduct waste management injection operations at its facility by injecting only non-hazardous (RCRA exempt and RCRA non-hazardous, non-exempt) oil field waste fluids. Injected waste fluids shall not exhibit the RCRA characteristics, i.e., ignitability, reactivity, corrosivity, or toxicity under 40 CFR 261 Subpart "C" 261.21 - 261.24 (July 1, 1992), at the point of injection into WDW-2, based upon environmental analytical laboratory testing. Pursuant to 20.6.2.5207B, the Permittee shall provide analyses of the injected fluids at least quarterly to yield data representative of their toxicity characteristic.

The Permittee shall also analyze the injected fluids quarterly for the following characteristics:

- OK
- pH (Method 9040); 9040C Biller
 - Eh;
 - Specific conductance;
 - Specific gravity;
 - Temperature;
 - Major dissolved cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, bromide, total dissolved solids, and cation/anion balance using the methods specified in 40 CFR 136.3; and,
 - EPA RCRA Characteristics for Ignitability (ASTM Methods); Corrosivity (SW-846) and Reactivity (determined through Permittee's application of knowledge or generating process).

The Permittee shall analyze the injected fluids quarterly for the constituents identified in the Quarterly Monitoring List (below) to demonstrate that the injected fluids do not exhibit the characteristic of toxicity using the Toxicity Characteristic Leaching Procedure, EPA SW-846 Test Method 1311 (see Table 1, 40 CFR 261.24(b)).

QUARTERLY MONITORING LIST			
EPA HW No.	Contaminant	SW-846 Methods	Regulatory Level (mg/L)
D004	Arsenic	1311	5.0
D005	Barium	1311	100.0
D018	Benzene	8021B	0.5
D006	Cadmium	1311	1.0
D019	Carbon tetrachloride	8021B 8260B	0.5
D020	Chlordane	8081A	0.03
D021	Chlorobenzene	8021B 8260B	100.0
D022	Chloroform	8021B 8260B	6.0
D007	Chromium	1311	5.0
D023	o-Cresol	8270D	200.0
D024	m-Cresol	8270D	200.0
D025	p-Cresol	8270D	200.0
D026	Cresol	8270D	200.0
D027	1,4-Dichlorobenzene	8021B 8121 8260B 8270D	7.5
D028	1,2-Dichloroethane	8021B 8260B	0.5
D029	1,1-Dichloroethylene	8021B 8260B	0.7
D030	2,4-Dinitrotoluene	8091 8270D	0.13
D032	Hexachlorobenzene	8121	0.13
D033	Hexachlorobutadiene	8021B 8121 8260B	0.5
D034	Hexachloroethane	8121	3.0
D008	Lead	1311	5.0
D009	Mercury	7470A 7471B	0.2
D035	Methyl ethyl ketone	8015B 8260B	200.0
D036	Nitrobenzene	8091 8270D	2.0
D037	Pentachlorophenol	8041	100.0
D038	Pyridine	8260B 8270D	5.0

WESTERN REFINING SOUTHWEST, INC.
WASTE DISPOSAL WELL NO. 2

UICI-011 (WDW-2)
July 20, 2016

D010	Selenium	1311	1.0
D011	Silver	1311	5.0
D039	Tetrachloroethylene	8260B	0.7
D040	Trichloroethylene	8021B 8260B	0.5
D041	2,4,5-Trichlorophenol	8270D	400.0
D042	2,4,6-Trichlorophenol	8041A 8270D	2.0
D043	Vinyl chloride	8021B 8260B	0.2

If o-, m-, and p-cresol concentrations cannot be differentiated, then the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/L.

If the quantitation limit is greater than the regulatory level, then the quantitation limit becomes the regulatory level. If metals (dissolved), the EPA 1311 TCLP Laboratory Method is required with the exception of Mercury (total).

1. **Monitor and Piezometer Wells:** Groundwater with a total dissolved solids concentration of less than 10,000 mg/L occurs at an estimated depth of approximately 10 - 30 ft. below ground surface at the WDW-2 well (hereafter, "uppermost water-bearing unit"). Groundwater monitoring well (MW) with GW sampling capability shall be installed proximal to and hydrogeologically downgradient from WDW-2 in order to monitor the uppermost water-bearing unit. The MW shall be screened (15 ft. screen with top of screen positioned 5 ft. above water table) into the uppermost water-bearing unit. The Permittee shall propose a monitoring frequency with chemical monitoring parameters in order to detect potential groundwater contamination either associated with or not associated with WDW-2.

2.B. **CONTINGENCY PLANS:** The Permittee shall implement its proposed contingency plan(s) included in its application to cope with failure of a system(s) in the Discharge Permit.

2.C. **CLOSURE:** Prior to closure of the facility, the Permittee shall submit for OCD's approval, a closure plan including a completed form C-103 for plugging and abandonment of the waste injection well. The Permittee shall plug and abandon its well pursuant to 20.6.2.5209 NMAC and as specified in Permit Condition 2.D.

1. **Pre-Closure Notification:** Pursuant to 20.6.2.5005A NMAC, the Permittee shall submit a pre-closure notification to OCD's Environmental Bureau at least 30 days prior to the date that it proposes to close or to discontinue operation of WDW-2. Pursuant to 20.6.2.5005B NMAC, OCD's Environmental Bureau must approve all proposed well closure activities before the Permittee may implement its proposed closure plan.
2. **Required Information:** The Permittee shall provide OCD's Environmental Bureau with the following information in the pre-closure notification specified in Permit Condition 2.C.1:
 - Name of facility;
 - Address of facility;
 - Name of Permittee (and owner or operator, if appropriate);

Continuous Data Logs
Well Start-up – March 2017

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
Max ->	67	48	1451	
Min ->	0	0	0	
Average ->	5	14	1098	
08-Mar-17 15:00:00	0	0	24	1199
08-Mar-17 15:30:00	0	0	0	1217
08-Mar-17 16:00:00	24	0	1350	1234
08-Mar-17 16:30:00	23	0	1352	1250
08-Mar-17 17:00:00	22	0	1351	1266
08-Mar-17 17:30:00	22	0	1352	1282
08-Mar-17 18:00:00	21	0	1351	1298
08-Mar-17 18:30:00	22	0	1352	1313
08-Mar-17 19:00:00	20	0	1350	1329
08-Mar-17 19:30:00	20	0	1351	1344
08-Mar-17 20:00:00	20	0	1351	1358
08-Mar-17 20:30:00	20	0	1352	1373
08-Mar-17 21:00:00	20	0	1350	1387
08-Mar-17 21:30:00	20	0	1353	1401
08-Mar-17 22:00:00	19	0	1351	1415
08-Mar-17 22:30:00	19	0	1351	1428
08-Mar-17 23:00:00	19	0	1352	1442
08-Mar-17 23:30:00	19	0	1351	1455
09-Mar-17 00:00:00	18	0	1350	1469
09-Mar-17 00:30:00	19	0	1352	1482
09-Mar-17 01:00:00	18	0	1350	1495
09-Mar-17 01:30:00	18	0	1351	1508
09-Mar-17 02:00:00	18	0	1353	1520
09-Mar-17 02:30:00	18	0	1352	1533
09-Mar-17 03:00:00	18	0	1352	1546
09-Mar-17 03:30:00	16	0	1351	1558
09-Mar-17 04:00:00	18	0	1352	1571
09-Mar-17 04:30:00	16	0	1350	1583
09-Mar-17 05:00:00	17	0	1351	1596
09-Mar-17 05:30:00	17	0	1352	1608
09-Mar-17 06:00:00	16	0	1349	1620
09-Mar-17 06:30:00	18	0	1352	1632
09-Mar-17 07:00:00	17	0	1352	1644
09-Mar-17 07:30:00	16	0	1351	1655
09-Mar-17 08:00:00	16	0	1352	1666
09-Mar-17 08:30:00	16	0	1351	437
09-Mar-17 09:00:00	16	0	1353	1689
09-Mar-17 09:30:00	17	0	1356	1700
09-Mar-17 10:00:00	15	0	1358	1711
09-Mar-17 10:30:00	15	0	1356	1722
09-Mar-17 11:00:00	15	0	1355	1727
09-Mar-17 11:30:00	15	0	1356	1735
09-Mar-17 12:00:00	16	0	1356	1746
09-Mar-17 12:30:00	17	0	1370	437
09-Mar-17 13:00:00	19	0	1392	1771
09-Mar-17 13:30:00	18	0	1390	1784
09-Mar-17 14:00:00	17	0	1391	1797
09-Mar-17 14:30:00	17	0	1390	1809
09-Mar-17 15:00:00	11	0	1383	1822

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
09-Mar-17 15:30:00	16	0	1381	1833
09-Mar-17 16:00:00	16	0	1381	1844
09-Mar-17 16:30:00	17	0	1381	1855
09-Mar-17 17:00:00	15	0	1381	1867
09-Mar-17 17:30:00	15	0	1382	1878
09-Mar-17 18:00:00	15	0	1382	1889
09-Mar-17 18:30:00	15	0	1383	1900
09-Mar-17 19:00:00	14	0	1380	1911
09-Mar-17 19:30:00	16	0	1381	1921
09-Mar-17 20:00:00	15	0	1380	1932
09-Mar-17 20:30:00	15	0	1383	1943
09-Mar-17 21:00:00	15	0	1381	1954
09-Mar-17 21:30:00	14	0	1382	1964
09-Mar-17 22:00:00	15	0	1383	1975
09-Mar-17 22:30:00	15	0	1382	1986
09-Mar-17 23:00:00	15	0	1382	1996
09-Mar-17 23:30:00	15	0	1382	2007
10-Mar-17 00:00:00	15	0	1383	2017
10-Mar-17 00:30:00	15	0	1383	2027
10-Mar-17 01:00:00	15	0	1383	2038
10-Mar-17 01:30:00	14	0	1381	2048
10-Mar-17 02:00:00	14	0	1383	2058
10-Mar-17 02:30:00	15	0	1382	2068
10-Mar-17 03:00:00	14	0	1382	2078
10-Mar-17 03:30:00	14	0	1381	2089
10-Mar-17 04:00:00	14	0	1382	2099
10-Mar-17 04:30:00	14	0	1383	2109
10-Mar-17 05:00:00	15	0	1382	2119
10-Mar-17 05:30:00	14	0	1383	2128
10-Mar-17 06:00:00	14	0	1382	2138
10-Mar-17 06:30:00	13	0	1382	2148
10-Mar-17 07:00:00	13	0	1381	2158
10-Mar-17 07:30:00	14	0	1383	2168
10-Mar-17 08:00:00	13	0	1382	2177
10-Mar-17 08:30:00	14	0	1381	2187
10-Mar-17 09:00:00	13	0	1382	2197
10-Mar-17 09:30:00	14	0	1382	2206
10-Mar-17 10:00:00	13	0	1382	2216
10-Mar-17 10:30:00	44	0	1310	2221
10-Mar-17 11:00:00	15	0	1383	2231
10-Mar-17 11:30:00	13	0	1382	2240
10-Mar-17 12:00:00	12	0	1380	2249
10-Mar-17 12:30:00	13	0	1383	2258
10-Mar-17 13:00:00	13	0	1383	437
10-Mar-17 13:30:00	13	0	1382	2276
10-Mar-17 14:00:00	12	1	1380	2286
10-Mar-17 14:30:00	13	1	1383	2294
10-Mar-17 15:00:00	12	1	1381	2303
10-Mar-17 15:30:00	12	1	1383	2312
10-Mar-17 16:00:00	12	1	1382	2320
10-Mar-17 16:30:00	12	1	1382	2329
10-Mar-17 17:00:00	12	1	1382	2338

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
10-Mar-17 17:30:00	13	1	1383	2346
10-Mar-17 18:00:00	12	1	1382	2355
10-Mar-17 18:30:00	11	1	1383	2363
10-Mar-17 19:00:00	12	1	1382	2372
10-Mar-17 19:30:00	12	1	1381	2380
10-Mar-17 20:00:00	11	1	1381	2388
10-Mar-17 20:30:00	12	1	1382	2397
10-Mar-17 21:00:00	12	1	1382	2405
10-Mar-17 21:30:00	12	1	1383	2414
10-Mar-17 22:00:00	11	1	1381	2422
10-Mar-17 22:30:00	11	1	1382	2430
10-Mar-17 23:00:00	11	1	1381	2439
10-Mar-17 23:30:00	12	1	1383	2447
11-Mar-17 00:00:00	12	1	1383	2455
11-Mar-17 00:30:00	12	1	1382	2463
11-Mar-17 01:00:00	13	1	1383	2472
11-Mar-17 01:30:00	12	1	1381	2480
11-Mar-17 02:00:00	13	1	1382	2488
11-Mar-17 02:30:00	11	1	1381	2496
11-Mar-17 03:00:00	12	1	1382	2504
11-Mar-17 03:30:00	11	1	1381	2512
11-Mar-17 04:00:00	11	1	1381	2520
11-Mar-17 04:30:00	11	1	1382	2528
11-Mar-17 05:00:00	11	1	1382	2536
11-Mar-17 05:30:00	11	1	1381	2544
11-Mar-17 06:00:00	11	1	1381	2552
11-Mar-17 06:30:00	11	1	1382	2560
11-Mar-17 07:00:00	11	1	1381	2568
11-Mar-17 07:30:00	11	1	1381	2576
11-Mar-17 08:00:00	10	1	1383	2584
11-Mar-17 08:30:00	10	1	1382	2592
11-Mar-17 09:00:00	11	1	1383	2600
11-Mar-17 09:30:00	11	1	1381	2607
11-Mar-17 10:00:00	12	1	1382	2615
11-Mar-17 10:30:00	11	1	1382	2623
11-Mar-17 11:00:00	12	1	1383	2630
11-Mar-17 11:30:00	11	1	1381	2638
11-Mar-17 12:00:00	11	1	1381	2645
11-Mar-17 12:30:00	11	1	1382	2652
11-Mar-17 13:00:00	11	1	1383	2660
11-Mar-17 13:30:00	7	1	1382	2666
11-Mar-17 14:00:00	2	1	1382	2673
11-Mar-17 14:30:00	11	1	1381	2680
11-Mar-17 15:00:00	10	1	1381	2687
11-Mar-17 15:30:00	10	1	1382	2694
11-Mar-17 16:00:00	0	1	1381	2700
11-Mar-17 16:30:00	10	1	1382	2707
11-Mar-17 17:00:00	2	1	1381	2714
11-Mar-17 17:30:00	11	1	1383	2720
11-Mar-17 18:00:00	10	1	1382	2727
11-Mar-17 18:30:00	10	1	1382	2734
11-Mar-17 19:00:00	10	1	1382	2741

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
11-Mar-17 19:30:00	10	1	1382	2746
11-Mar-17 20:00:00	10	1	1382	2751
11-Mar-17 20:30:00	10	1	1383	2755
11-Mar-17 21:00:00	11	1	1382	2759
11-Mar-17 21:30:00	10	1	1382	2764
11-Mar-17 22:00:00	8	1	1383	2768
11-Mar-17 22:30:00	0	1	1382	2772
11-Mar-17 23:00:00	2	1	1383	2777
11-Mar-17 23:30:00	10	1	1382	2781
12-Mar-17 00:00:00	2	2	1383	2786
12-Mar-17 00:30:00	11	2	1383	2792
12-Mar-17 01:00:00	2	2	1382	2797
12-Mar-17 01:30:00	2	2	1383	2802
12-Mar-17 03:00:00	0	2	1382	2807
12-Mar-17 03:30:00	10	2	1383	2812
12-Mar-17 04:00:00	10	2	1382	2817
12-Mar-17 04:30:00	2	2	1383	2820
12-Mar-17 05:00:00	10	2	1382	2823
12-Mar-17 05:30:00	0	2	1382	2826
12-Mar-17 06:00:00	8	2	1382	2829
12-Mar-17 06:30:00	0	2	1383	2831
12-Mar-17 07:00:00	10	2	1382	2833
12-Mar-17 07:30:00	0	2	1382	2834
12-Mar-17 08:00:00	8	2	1383	2836
12-Mar-17 08:30:00	0	2	1383	2837
12-Mar-17 09:00:00	0	2	1383	2837
12-Mar-17 09:30:00	0	2	1382	2838
12-Mar-17 10:00:00	0	2	1382	2838
12-Mar-17 10:30:00	0	2	1383	2838
12-Mar-17 11:00:00	0	2	1382	2838
12-Mar-17 11:30:00	0	2	1383	2838
12-Mar-17 12:00:00	0	2	1382	2838
12-Mar-17 12:30:00	0	2	1382	2838
12-Mar-17 13:00:00	0	2	1382	2838
12-Mar-17 13:30:00	0	2	1382	2838
12-Mar-17 14:00:00	0	2	1382	2838
12-Mar-17 14:30:00	0	2	1382	2838
12-Mar-17 15:00:00	0	2	1383	2838
12-Mar-17 15:30:00	0	2	1382	2838
12-Mar-17 16:00:00	0	2	1382	2838
12-Mar-17 16:30:00	0	2	1382	2837
12-Mar-17 17:00:00	0	2	1383	2836
12-Mar-17 17:30:00	0	2	1382	2835
12-Mar-17 18:00:00	0	2	1382	2835
12-Mar-17 18:30:00	0	2	1383	2834
12-Mar-17 19:00:00	0	3	1383	2833
12-Mar-17 19:30:00	0	3	1383	2833
12-Mar-17 20:00:00	0	3	1383	2832
12-Mar-17 20:30:00	0	3	1382	2831
12-Mar-17 21:00:00	0	3	1383	2830
12-Mar-17 21:30:00	0	3	1383	2830
12-Mar-17 22:00:00	0	3	1383	2829

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
12-Mar-17 22:30:00	0	3	1382	2828
12-Mar-17 23:00:00	0	3	1383	2828
12-Mar-17 23:30:00	0	3	1382	2828
13-Mar-17 00:00:00	0	3	1383	2828
13-Mar-17 00:30:00	0	3	1382	2828
13-Mar-17 01:00:00	0	3	1383	2828
13-Mar-17 01:30:00	0	3	1383	2828
13-Mar-17 02:00:00	0	3	1383	2828
13-Mar-17 02:30:00	0	3	1382	2828
13-Mar-17 03:00:00	0	3	1383	2828
13-Mar-17 03:30:00	0	3	1383	2828
13-Mar-17 04:00:00	0	3	1382	2828
13-Mar-17 04:30:00	0	3	1383	2828
13-Mar-17 05:00:00	0	3	1383	2828
13-Mar-17 05:30:00	0	3	1383	2828
13-Mar-17 06:00:00	0	3	1382	2828
13-Mar-17 06:30:00	0	3	1383	2827
13-Mar-17 07:00:00	0	3	1232	2828
13-Mar-17 07:30:00	0	4	1165	2828
13-Mar-17 08:00:00	0	5	1135	2828
13-Mar-17 08:30:00	0	5	1113	2828
13-Mar-17 09:00:00	0	6	1099	2828
13-Mar-17 09:30:00	0	7	1090	2828
13-Mar-17 10:00:00	0	7	1081	2828
13-Mar-17 10:30:00	0	8	1073	2828
13-Mar-17 11:00:00	0	8	1066	2828
13-Mar-17 11:30:00	0	9	1059	2828
13-Mar-17 12:00:00	0	10	1053	2828
13-Mar-17 12:30:00	0	10	1047	2828
13-Mar-17 13:00:00	0	11	1041	2828
13-Mar-17 13:30:00	0	11	1036	2828
13-Mar-17 14:00:00	0	11	1030	2828
13-Mar-17 14:30:00	0	12	1026	2828
13-Mar-17 15:00:00	0	13	1021	2828
13-Mar-17 15:30:00	0	13	1016	2828
13-Mar-17 16:00:00	0	13	1011	2828
13-Mar-17 16:30:00	0	14	1007	2828
13-Mar-17 17:00:00	0	14	1003	2828
13-Mar-17 17:30:00	0	15	999	2828
13-Mar-17 18:00:00	0	15	995	2828
13-Mar-17 18:30:00	0	15	991	2828
13-Mar-17 19:00:00	0	16	987	2828
13-Mar-17 19:30:00	0	16	984	2828
13-Mar-17 20:00:00	0	16	980	2828
13-Mar-17 20:30:00	0	17	976	2828
13-Mar-17 21:00:00	0	17	973	2828
13-Mar-17 21:30:00	0	17	970	2828
13-Mar-17 22:00:00	0	18	966	2828
13-Mar-17 22:30:00	0	18	963	2828
13-Mar-17 23:00:00	0	18	960	2828
13-Mar-17 23:30:00	0	19	957	2828
14-Mar-17 00:00:00	0	19	954	2828

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
14-Mar-17 00:30:00	0	19	951	2828
14-Mar-17 01:00:00	0	19	948	2828
14-Mar-17 01:30:00	0	20	946	2828
14-Mar-17 02:00:00	0	20	943	2828
14-Mar-17 02:30:00	0	20	940	2828
14-Mar-17 03:00:00	0	20	937	2828
14-Mar-17 03:30:00	0	21	935	2828
14-Mar-17 04:00:00	0	21	932	2828
14-Mar-17 04:30:00	0	21	930	2828
14-Mar-17 05:00:00	0	21	927	2828
14-Mar-17 05:30:00	0	22	925	2828
14-Mar-17 06:00:00	0	22	922	2828
14-Mar-17 06:30:00	0	22	920	2828
14-Mar-17 07:00:00	0	22	918	2828
14-Mar-17 07:30:00	0	22	915	2828
14-Mar-17 08:00:00	0	23	913	2828
14-Mar-17 08:30:00	0	23	911	2828
14-Mar-17 09:00:00	0	23	909	2828
14-Mar-17 09:30:00	0	23	907	2828
14-Mar-17 10:00:00	0	24	904	2828
14-Mar-17 10:30:00	0	24	902	2828
14-Mar-17 11:00:00	0	24	900	2827
14-Mar-17 11:30:00	0	25	898	2827
14-Mar-17 12:00:00	0	25	895	2827
14-Mar-17 12:30:00	0	25	893	2827
14-Mar-17 13:00:00	0	26	891	2826
14-Mar-17 13:30:00	0	26	890	2826
14-Mar-17 14:00:00	0	26	888	2826
14-Mar-17 14:30:00	26	14	1390	2847
14-Mar-17 15:00:00	21	8	1391	2863
14-Mar-17 15:30:00	27	7	1419	2872
14-Mar-17 16:00:00	20	5	1420	2888
14-Mar-17 16:30:00	18	4	1420	2902
14-Mar-17 17:00:00	16	3	1421	2914
14-Mar-17 17:30:00	15	3	1420	2926
14-Mar-17 18:00:00	14	2	1421	2938
14-Mar-17 18:30:00	15	2	1422	2948
14-Mar-17 19:00:00	13	2	1421	2958
14-Mar-17 19:30:00	13	2	1420	2968
14-Mar-17 20:00:00	13	2	1420	2977
14-Mar-17 20:30:00	12	2	1421	2986
14-Mar-17 21:00:00	13	2	1422	2995
14-Mar-17 21:30:00	13	2	1423	3004
14-Mar-17 22:00:00	12	2	1421	3013
14-Mar-17 22:30:00	12	2	1421	3021
14-Mar-17 23:00:00	13	2	1422	3030
14-Mar-17 23:30:00	11	2	1422	3038
15-Mar-17 00:00:00	11	2	1422	3046
15-Mar-17 00:30:00	11	2	1421	3053
15-Mar-17 01:00:00	10	2	1422	3061
15-Mar-17 01:30:00	10	2	1422	3068
15-Mar-17 02:00:00	11	2	1422	3075

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
15-Mar-17 02:30:00	10	2	1422	3082
15-Mar-17 03:00:00	10	2	1422	3088
15-Mar-17 03:30:00	10	2	1422	3093
15-Mar-17 04:00:00	10	2	1422	3097
15-Mar-17 04:30:00	10	2	1422	3100
15-Mar-17 05:00:00	10	2	1423	3102
15-Mar-17 05:30:00	0	2	1422	3103
15-Mar-17 06:00:00	0	2	1210	3103
15-Mar-17 06:30:00	0	3	1151	3103
15-Mar-17 07:00:00	0	4	1117	3103
15-Mar-17 07:30:00	0	5	1093	3103
15-Mar-17 08:00:00	0	6	1073	3103
15-Mar-17 08:30:00	0	7	0.0	3103
15-Mar-17 09:00:00	0	7	0.0	3103
15-Mar-17 09:30:00	0	8	1.0	3103
15-Mar-17 10:00:00	0	9	1.0	3103
15-Mar-17 10:30:00	0	9	2.0	3103
15-Mar-17 11:00:00	0	10	1016	3103
15-Mar-17 11:30:00	19	10	1391	3110
15-Mar-17 12:00:00	13	7	1391	3121
15-Mar-17 12:30:00	11	5	1391	3130
15-Mar-17 13:00:00	10	5	1391	3137
15-Mar-17 13:30:00	10	4	1391	3140
15-Mar-17 14:00:00	10	4	1391	3141
15-Mar-17 14:30:00	0	4	1196	3141
15-Mar-17 15:00:00	0	5	1119	3141
15-Mar-17 15:30:00	0	6	1081	3141
15-Mar-17 16:00:00	0	7	1056	3141
15-Mar-17 16:30:00	0	8	1037	3141
15-Mar-17 17:00:00	0	9	1025	3141
15-Mar-17 17:30:00	0	10	1017	3141
15-Mar-17 18:00:00	0	10	1011	3140
15-Mar-17 18:30:00	0	11	1004	3140
15-Mar-17 19:00:00	0	12	999	3140
15-Mar-17 19:30:00	0	12	993	3140
15-Mar-17 20:00:00	0	13	988	3140
15-Mar-17 20:30:00	0	13	983	3140
15-Mar-17 21:00:00	0	14	978	3140
15-Mar-17 21:30:00	0	14	974	3140
15-Mar-17 22:00:00	0	15	969	3140
15-Mar-17 22:30:00	0	15	965	3140
15-Mar-17 23:00:00	0	16	961	3140
15-Mar-17 23:30:00	0	16	957	3140
16-Mar-17 00:00:00	0	17	953	3140
16-Mar-17 00:30:00	0	17	950	3140
16-Mar-17 01:00:00	0	18	946	3140
16-Mar-17 01:30:00	0	18	942	3140
16-Mar-17 02:00:00	0	18	939	3140
16-Mar-17 02:30:00	0	19	936	3140
16-Mar-17 03:00:00	0	19	933	3140
16-Mar-17 03:30:00	0	19	930	3140
16-Mar-17 04:00:00	0	20	927	3140

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
16-Mar-17 04:30:00	0	20	924	3140
16-Mar-17 05:00:00	0	20	921	3140
16-Mar-17 05:30:00	0	21	918	3140
16-Mar-17 06:00:00	0	21	915	3140
16-Mar-17 06:30:00	0	21	913	3140
16-Mar-17 07:00:00	0	22	910	3140
16-Mar-17 07:30:00	0	22	908	3140
16-Mar-17 08:00:00	0	22	906	3140
16-Mar-17 08:30:00	0	22	903	3140
16-Mar-17 09:00:00	0	23	900	3140
16-Mar-17 09:30:00	0	23	898	3140
16-Mar-17 10:00:00	0	23	896	3140
16-Mar-17 10:30:00	0	24	894	3140
16-Mar-17 11:00:00	0	24	891	3140
16-Mar-17 11:30:00	0	24	888	3140
16-Mar-17 12:00:00	0	25	886	3140
16-Mar-17 12:30:00	0	25	884	3140
16-Mar-17 13:00:00	0	26	882	3140
16-Mar-17 13:30:00	0	26	880	3140
16-Mar-17 14:00:00	0	26	878	3140
16-Mar-17 14:30:00	0	26	876	3140
16-Mar-17 15:00:00	0	27	874	3140
16-Mar-17 15:30:00	0	27	872	3140
16-Mar-17 16:00:00	0	27	870	3140
16-Mar-17 16:30:00	0	28	869	3140
16-Mar-17 17:00:00	0	28	867	3140
16-Mar-17 17:30:00	0	28	865	3140
16-Mar-17 18:00:00	0	29	863	3140
16-Mar-17 18:30:00	0	29	861	3140
16-Mar-17 19:00:00	0	29	859	3140
16-Mar-17 19:30:00	0	29	858	3140
16-Mar-17 20:00:00	0	30	856	3140
16-Mar-17 20:30:00	0	30	855	3140
16-Mar-17 21:00:00	0	30	853	3140
16-Mar-17 21:30:00	0	30	851	3140
16-Mar-17 22:00:00	0	30	850	3140
16-Mar-17 22:30:00	0	31	848	3140
16-Mar-17 23:00:00	0	31	847	3140
16-Mar-17 23:30:00	0	31	845	3140
17-Mar-17 00:00:00	0	31	844	3140
17-Mar-17 00:30:00	0	31	842	3140
17-Mar-17 01:00:00	0	31	841	3140
17-Mar-17 01:30:00	0	32	839	3140
17-Mar-17 02:00:00	0	32	838	3140
17-Mar-17 02:30:00	0	32	836	3140
17-Mar-17 03:00:00	0	32	835	3140
17-Mar-17 03:30:00	0	32	833	3140
17-Mar-17 04:00:00	0	32	832	3140
17-Mar-17 04:30:00	0	32	830	3140
17-Mar-17 05:00:00	0	33	829	3140
17-Mar-17 05:30:00	0	33	828	3140
17-Mar-17 06:00:00	0	33	826	3140

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (pis)	Totalizer (bbls)
17-Mar-17 06:30:00	0	33	825	3140
17-Mar-17 07:00:00	0	33	824	3140
17-Mar-17 07:30:00	0	33	822	3140
17-Mar-17 08:00:00	0	34	821	3140
17-Mar-17 08:30:00	0	34	820	3140
17-Mar-17 09:00:00	0	34	819	3140
17-Mar-17 09:30:00	0	34	817	3140
17-Mar-17 10:00:00	0	35	816	3140
17-Mar-17 10:30:00	0	35	815	3140
17-Mar-17 11:00:00	0	35	813	3140
17-Mar-17 11:30:00	27	15	1390	3164
17-Mar-17 12:00:00	20	9	1391	3180
17-Mar-17 12:30:00	18	6	1391	3194
17-Mar-17 13:00:00	17	5	1391	3206
17-Mar-17 13:30:00	14	5	1392	3217
17-Mar-17 14:00:00	13	4	1391	3227
17-Mar-17 14:30:00	14	4	1391	3237
17-Mar-17 15:00:00	13	4	1392	3246
17-Mar-17 15:30:00	13	4	1392	3255
17-Mar-17 16:00:00	11	4	1392	3263
17-Mar-17 16:30:00	11	4	1392	3271
17-Mar-17 17:00:00	10	4	1392	3279
17-Mar-17 17:30:00	11	4	1392	3286
17-Mar-17 18:00:00	11	4	1393	3292
17-Mar-17 18:30:00	1	4	1392	3298
17-Mar-17 19:00:00	5	4	1392	3302
17-Mar-17 19:30:00	1	4	1392	3305
17-Mar-17 20:00:00	0	4	1177	3306
17-Mar-17 20:30:00	0	5	1092	3306
17-Mar-17 21:00:00	0	6	1049	3306
17-Mar-17 21:30:00	0	7	1019	3306
17-Mar-17 22:00:00	0	8	997	3306
17-Mar-17 22:30:00	0	9	978	3306
17-Mar-17 23:00:00	0	10	963	3306
17-Mar-17 23:30:00	0	11	950	3306
18-Mar-17 00:00:00	0	12	940	3306
18-Mar-17 00:30:00	0	13	934	3306
18-Mar-17 01:00:00	0	14	929	3306
18-Mar-17 01:30:00	0	14	924	3306
18-Mar-17 02:00:00	0	15	919	3306
18-Mar-17 02:30:00	0	16	915	3306
18-Mar-17 03:00:00	0	16	911	3306
18-Mar-17 03:30:00	0	17	907	3306
18-Mar-17 04:00:00	0	18	903	3306
18-Mar-17 04:30:00	0	18	899	3306
18-Mar-17 05:00:00	0	19	895	3306
18-Mar-17 05:30:00	0	20	892	3306
18-Mar-17 06:00:00	0	20	889	3306
18-Mar-17 06:30:00	0	21	885	3306
18-Mar-17 07:00:00	0	21	882	3306
18-Mar-17 07:30:00	0	22	879	3306
18-Mar-17 08:00:00	0	22	877	3306

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
18-Mar-17 08:30:00	0	23	874	3306
18-Mar-17 09:00:00	0	23	871	3306
18-Mar-17 09:30:00	0	24	868	3306
18-Mar-17 10:00:00	0	24	866	3306
18-Mar-17 10:30:00	0	25	863	3306
18-Mar-17 11:00:00	0	25	860	3306
18-Mar-17 11:30:00	0	26	858	3306
18-Mar-17 12:00:00	0	26	856	3306
18-Mar-17 12:30:00	0	27	853	3306
18-Mar-17 13:00:00	0	27	851	3306
18-Mar-17 13:30:00	0	28	848	3306
18-Mar-17 14:00:00	0	28	847	3306
18-Mar-17 14:30:00	0	28	844	3306
18-Mar-17 15:00:00	0	29	843	3306
18-Mar-17 15:30:00	0	29	840	3306
18-Mar-17 16:00:00	0	30	839	3306
18-Mar-17 16:30:00	0	30	836	3306
18-Mar-17 17:00:00	0	31	835	3306
18-Mar-17 17:30:00	0	31	833	3306
18-Mar-17 18:00:00	0	31	831	3306
18-Mar-17 18:30:00	0	32	830	3306
18-Mar-17 19:00:00	0	32	828	3306
18-Mar-17 19:30:00	0	32	826	3306
18-Mar-17 20:00:00	0	33	825	3306
18-Mar-17 20:30:00	0	33	823	3306
18-Mar-17 21:00:00	0	33	821	3306
18-Mar-17 21:30:00	0	33	820	3306
18-Mar-17 22:00:00	0	34	818	3306
18-Mar-17 22:30:00	0	34	817	3306
18-Mar-17 23:00:00	0	34	815	3306
18-Mar-17 23:30:00	0	34	814	3306
19-Mar-17 00:00:00	0	34	813	3306
19-Mar-17 00:30:00	0	35	811	3306
19-Mar-17 01:00:00	0	35	810	3306
19-Mar-17 01:30:00	0	35	808	3306
19-Mar-17 02:00:00	0	35	807	3306
19-Mar-17 02:30:00	0	35	805	3306
19-Mar-17 03:00:00	0	36	804	3306
19-Mar-17 03:30:00	0	36	803	3306
19-Mar-17 04:00:00	0	36	802	3306
19-Mar-17 04:30:00	0	36	800	3306
19-Mar-17 05:00:00	0	36	799	3306
19-Mar-17 05:30:00	0	36	798	3306
19-Mar-17 06:00:00	0	37	796	3306
19-Mar-17 06:30:00	0	37	795	3306
19-Mar-17 07:00:00	0	37	794	3306
19-Mar-17 07:30:00	0	37	793	3306
19-Mar-17 08:00:00	0	37	792	3306
19-Mar-17 08:30:00	0	37	791	3306
19-Mar-17 09:00:00	0	38	789	3306
19-Mar-17 09:30:00	0	38	788	3306
19-Mar-17 10:00:00	0	38	787	3306

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
19-Mar-17 10:30:00	0	39	786	3306
19-Mar-17 11:00:00	0	39	785	3306
19-Mar-17 11:30:00	0	39	783	3306
19-Mar-17 12:00:00	0	39	782	3306
19-Mar-17 12:30:00	0	40	781	3306
19-Mar-17 13:00:00	0	40	779	3306
19-Mar-17 13:30:00	0	40	779	3306
19-Mar-17 14:00:00	0	40	777	3306
19-Mar-17 14:30:00	67	39	1352	3319
19-Mar-17 15:00:00	27	13	1390	3343
19-Mar-17 15:30:00	22	8	1391	3360
19-Mar-17 16:00:00	19	6	1391	3375
19-Mar-17 16:30:00	18	5	1392	3388
19-Mar-17 17:00:00	16	4	1392	3400
19-Mar-17 17:30:00	15	4	1391	3411
19-Mar-17 18:00:00	15	4	1392	3422
19-Mar-17 18:30:00	13	4	1392	3431
19-Mar-17 19:00:00	12	4	1391	3440
19-Mar-17 19:30:00	12	4	1391	3449
19-Mar-17 20:00:00	12	4	1393	3457
19-Mar-17 20:30:00	11	4	1392	3465
19-Mar-17 21:00:00	11	4	1392	3473
19-Mar-17 21:30:00	11	4	1392	3479
19-Mar-17 22:00:00	0	4	1124	3481
19-Mar-17 22:30:00	0	5	1054	3481
19-Mar-17 23:00:00	0	6	1014	3481
19-Mar-17 23:30:00	0	8	986	3481
20-Mar-17 00:00:00	0	9	964	3481
20-Mar-17 00:30:00	0	10	946	3481
20-Mar-17 01:00:00	0	11	931	3481
20-Mar-17 01:30:00	0	12	922	3481
20-Mar-17 02:00:00	0	13	915	3481
20-Mar-17 02:30:00	0	14	909	3481
20-Mar-17 03:00:00	0	14	903	3481
20-Mar-17 03:30:00	0	15	898	3481
20-Mar-17 04:00:00	0	16	893	3481
20-Mar-17 04:30:00	0	17	888	3481
20-Mar-17 05:00:00	0	18	883	3481
20-Mar-17 05:30:00	0	18	879	3481
20-Mar-17 06:00:00	0	19	875	3481
20-Mar-17 06:30:00	0	20	871	3481
20-Mar-17 07:00:00	0	20	867	3481
20-Mar-17 07:30:00	46	25	1390	3484
20-Mar-17 08:00:00	21	11	1392	3503
20-Mar-17 08:30:00	17	7	1390	3516
20-Mar-17 09:00:00	16	6	1392	3528
20-Mar-17 09:30:00	14	5	1392	3538
20-Mar-17 10:00:00	13	4	1392	3548
20-Mar-17 10:30:00	13	4	1391	3557
20-Mar-17 11:00:00	12	4	1391	3566
20-Mar-17 11:30:00	11	4	1392	3574
20-Mar-17 12:00:00	10	4	1390	3582

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
20-Mar-17 12:30:00	10	4	1391	3589
20-Mar-17 13:00:00	10	4	1392	3596
20-Mar-17 13:30:00	8	4	1392	3601
20-Mar-17 14:00:00	0	4	1179	3603
20-Mar-17 14:30:00	0	5	1084	3603
20-Mar-17 15:00:00	0	6	1038	3603
20-Mar-17 15:30:00	0	7	1008	3603
20-Mar-17 16:00:00	0	8	985	3603
20-Mar-17 16:30:00	0	9	967	3603
20-Mar-17 17:00:00	0	10	955	3603
20-Mar-17 17:30:00	0	11	948	3603
20-Mar-17 18:00:00	0	12	941	3603
20-Mar-17 18:30:00	0	13	933	3603
20-Mar-17 19:00:00	0	14	927	3603
20-Mar-17 19:30:00	0	15	922	3603
20-Mar-17 20:00:00	0	15	916	3603
20-Mar-17 20:30:00	0	16	911	3603
20-Mar-17 21:00:00	0	17	906	3603
20-Mar-17 21:30:00	0	18	902	3603
20-Mar-17 22:00:00	0	18	897	3603
20-Mar-17 22:30:00	0	19	893	3603
20-Mar-17 23:00:00	0	19	889	3603
20-Mar-17 23:30:00	0	20	885	3603
21-Mar-17 00:00:00	0	21	881	3603
21-Mar-17 00:30:00	0	21	878	3603
21-Mar-17 01:00:00	0	22	875	3603
21-Mar-17 01:30:00	0	22	871	3603
21-Mar-17 02:00:00	0	23	868	3603
21-Mar-17 02:30:00	0	23	865	3603
21-Mar-17 03:00:00	0	24	862	3603
21-Mar-17 03:30:00	0	24	859	3603
21-Mar-17 04:00:00	0	25	856	3603
21-Mar-17 04:30:00	0	25	854	3603
21-Mar-17 05:00:00	0	26	851	3603
21-Mar-17 05:30:00	0	26	849	3603
21-Mar-17 06:00:00	0	26	846	3603
21-Mar-17 06:30:00	0	27	844	3603
21-Mar-17 07:00:00	0	27	841	3603
21-Mar-17 07:30:00	0	28	839	3603
21-Mar-17 08:00:00	0	28	837	3603
21-Mar-17 08:30:00	0	28	835	3603
21-Mar-17 09:00:00	0	29	832	3603
21-Mar-17 09:30:00	0	29	831	3603
21-Mar-17 10:00:00	0	30	828	3603
21-Mar-17 10:30:00	0	30	826	3603
21-Mar-17 11:00:00	0	30	825	3603
21-Mar-17 11:30:00	34	28	1389	3612
21-Mar-17 12:00:00	22	12	1391	3631
21-Mar-17 12:30:00	19	8	1391	3645
21-Mar-17 13:00:00	17	6	1392	3658
21-Mar-17 13:30:00	15	5	1391	3669
21-Mar-17 14:00:00	14	5	1391	3679

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
21-Mar-17 14:30:00	12	4	1392	3689
21-Mar-17 15:00:00	12	4	1391	3698
21-Mar-17 15:30:00	12	4	1392	3707
21-Mar-17 16:00:00	11	4	1392	3715
21-Mar-17 16:30:00	11	4	1393	3723
21-Mar-17 17:00:00	11	4	1393	3731
21-Mar-17 17:30:00	10	4	1391	3738
21-Mar-17 18:00:00	0	4	1133	3740
21-Mar-17 18:30:00	0	5	1060	3740
21-Mar-17 19:00:00	0	7	1019	3740
21-Mar-17 19:30:00	0	8	991	3740
21-Mar-17 20:00:00	0	9	970	3740
21-Mar-17 20:30:00	0	10	956	3740
21-Mar-17 21:00:00	0	11	947	3740
21-Mar-17 21:30:00	0	12	940	3740
21-Mar-17 22:00:00	0	13	933	3740
21-Mar-17 22:30:00	0	14	926	3740
21-Mar-17 23:00:00	0	15	920	3740
21-Mar-17 23:30:00	0	15	914	3740
22-Mar-17 00:00:00	0	16	909	3740
22-Mar-17 00:30:00	0	17	903	3740
22-Mar-17 01:00:00	0	18	899	3740
22-Mar-17 01:30:00	0	18	894	3740
22-Mar-17 02:00:00	0	19	889	3740
22-Mar-17 02:30:00	0	20	885	3740
22-Mar-17 03:00:00	0	20	882	3740
22-Mar-17 03:30:00	0	21	878	3740
22-Mar-17 04:00:00	0	22	874	3740
22-Mar-17 04:30:00	0	22	870	3740
22-Mar-17 05:00:00	0	23	867	3740
22-Mar-17 05:30:00	0	23	864	3740
22-Mar-17 06:00:00	0	24	861	3740
22-Mar-17 06:30:00	0	24	858	3740
22-Mar-17 07:00:00	0	25	855	3740
22-Mar-17 07:30:00	0	25	852	3740
22-Mar-17 08:00:00	23	14	1391	3759
22-Mar-17 08:30:00	19	9	1392	3773
22-Mar-17 09:00:00	17	7	1391	3785
22-Mar-17 09:30:00	15	6	1392	3796
22-Mar-17 10:00:00	13	5	1391	3806
22-Mar-17 10:30:00	13	4	1392	3816
22-Mar-17 11:00:00	12	4	1392	3825
22-Mar-17 11:30:00	12	4	1392	3833
22-Mar-17 12:00:00	12	4	1392	3842
22-Mar-17 12:30:00	11	4	1392	3850
22-Mar-17 13:00:00	10	4	1392	3857
22-Mar-17 13:30:00	10	4	1398	3865
22-Mar-17 14:00:00	11	4	1402	3872
22-Mar-17 14:30:00	10	4	1407	3880
22-Mar-17 15:00:00	10	4	1410	3887
22-Mar-17 15:30:00	10	4	1411	3894
22-Mar-17 16:00:00	10	4	1414	3901

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (pis)	Totalizer (bbls)
22-Mar-17 16:30:00	10	4	1417	3908
22-Mar-17 17:00:00	10	4	1420	3915
22-Mar-17 17:30:00	10	4	1422	3922
22-Mar-17 18:00:00	10	4	1426	3929
22-Mar-17 18:30:00	10	4	1429	3936
22-Mar-17 19:00:00	0	3	1226	3940
22-Mar-17 19:30:00	0	4	1120	3940
22-Mar-17 20:00:00	0	6	1074	3940
22-Mar-17 20:30:00	0	7	1045	3940
22-Mar-17 21:00:00	0	8	1023	3940
22-Mar-17 21:30:00	0	8	1009	3940
22-Mar-17 22:00:00	0	9	999	3940
22-Mar-17 22:30:00	0	10	990	3940
22-Mar-17 23:00:00	0	11	982	3940
22-Mar-17 23:30:00	0	12	975	3940
23-Mar-17 00:00:00	0	13	967	3940
23-Mar-17 00:30:00	0	13	961	3940
23-Mar-17 01:00:00	0	14	955	3940
23-Mar-17 01:30:00	0	15	949	3940
23-Mar-17 02:00:00	0	15	945	3940
23-Mar-17 02:30:00	0	16	938	3940
23-Mar-17 03:00:00	0	17	934	3940
23-Mar-17 03:30:00	0	17	929	3940
23-Mar-17 04:00:00	0	18	924	3940
23-Mar-17 04:30:00	0	18	920	3940
23-Mar-17 05:00:00	0	19	916	3940
23-Mar-17 05:30:00	0	19	912	3940
23-Mar-17 06:00:00	0	20	908	3940
23-Mar-17 06:30:00	0	20	904	3940
23-Mar-17 07:00:00	0	21	901	3940
23-Mar-17 07:30:00	0	21	897	3940
23-Mar-17 08:00:00	26	24	1322	3943
23-Mar-17 08:30:00	14	14	1322	3955
23-Mar-17 09:00:00	12	11	1334	3964
23-Mar-17 09:30:00	12	9	1348	3973
23-Mar-17 10:00:00	11	8	1361	3981
23-Mar-17 10:30:00	11	7	1370	3989
23-Mar-17 11:00:00	12	6	1378	3997
23-Mar-17 11:30:00	11	6	1384	4005
23-Mar-17 12:00:00	11	5	1390	4012
23-Mar-17 12:30:00	10	5	1394	4020
23-Mar-17 13:00:00	10	5	1400	4027
23-Mar-17 13:30:00	10	4	1405	4034
23-Mar-17 14:00:00	11	4	1411	4042
23-Mar-17 14:30:00	10	4	1415	4049
23-Mar-17 15:00:00	10	4	1418	4056
23-Mar-17 15:30:00	10	4	1421	4063
23-Mar-17 16:00:00	10	4	1424	4069
23-Mar-17 16:30:00	2	4	1426	4074
23-Mar-17 17:00:00	10	4	1428	4078
23-Mar-17 17:30:00	10	4	1430	4080
23-Mar-17 18:00:00	8	4	1432	4082

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
23-Mar-17 18:30:00	0	4	1435	4083
23-Mar-17 19:00:00	0	4	1437	4084
23-Mar-17 19:30:00	0	4	1439	4085
23-Mar-17 20:00:00	0	3	1441	4084
23-Mar-17 20:30:00	0	3	1442	4084
23-Mar-17 21:00:00	0	4	1157	4084
23-Mar-17 21:30:00	0	5	1103	4084
23-Mar-17 22:00:00	0	6	1071	4084
23-Mar-17 22:30:00	0	7	1048	4084
23-Mar-17 23:00:00	0	8	1035	4084
23-Mar-17 23:30:00	0	9	1025	4084
24-Mar-17 00:00:00	0	9	1016	4084
24-Mar-17 00:30:00	0	10	1008	4084
24-Mar-17 01:00:00	0	11	1000	4084
24-Mar-17 01:30:00	0	12	993	4084
24-Mar-17 02:00:00	0	12	986	4084
24-Mar-17 02:30:00	0	13	980	4084
24-Mar-17 03:00:00	0	14	974	4084
24-Mar-17 03:30:00	0	14	968	4084
24-Mar-17 04:00:00	0	15	963	4084
24-Mar-17 04:30:00	0	15	958	4084
24-Mar-17 05:00:00	0	16	953	4084
24-Mar-17 05:30:00	0	17	948	4084
24-Mar-17 06:00:00	0	17	943	4084
24-Mar-17 06:30:00	0	18	939	4084
24-Mar-17 07:00:00	0	18	935	4084
24-Mar-17 07:30:00	0	19	931	4084
24-Mar-17 08:00:00	0	19	927	4084
24-Mar-17 08:30:00	0	20	923	4084
24-Mar-17 09:00:00	0	16	1012	4091
24-Mar-17 09:30:00	19	11	1418	4104
24-Mar-17 10:00:00	13	7	1399	4116
24-Mar-17 10:30:00	0	7	1094	4120
24-Mar-17 11:00:00	0	8	1017	4120
24-Mar-17 11:30:00	0	9	989	4120
24-Mar-17 12:00:00	0	11	976	4120
24-Mar-17 12:30:00	0	12	966	4120
24-Mar-17 13:00:00	0	13	957	4120
24-Mar-17 13:30:00	0	14	950	4120
24-Mar-17 14:00:00	33	17	1391	4122
24-Mar-17 14:30:00	19	9	1419	4137
24-Mar-17 15:00:00	17	6	1442	4150
24-Mar-17 15:30:00	0	5	1152	4157
24-Mar-17 16:00:00	0	6	1048	4157
24-Mar-17 16:30:00	0	8	1011	4157
24-Mar-17 17:00:00	0	9	996	4157
24-Mar-17 17:30:00	0	10	984	4157
24-Mar-17 18:00:00	0	11	974	4157
24-Mar-17 18:30:00	0	12	966	4157
24-Mar-17 19:00:00	0	13	958	4157
24-Mar-17 19:30:00	0	14	951	4157
24-Mar-17 20:00:00	0	15	945	4157

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
24-Mar-17 20:30:00	0	16	939	4157
24-Mar-17 21:00:00	0	16	933	4157
24-Mar-17 21:30:00	0	17	928	4157
24-Mar-17 22:00:00	0	18	923	4157
24-Mar-17 22:30:00	0	18	918	4157
24-Mar-17 23:00:00	0	19	914	4157
24-Mar-17 23:30:00	0	20	910	4157
25-Mar-17 00:00:00	0	20	906	4157
25-Mar-17 00:30:00	0	21	902	4157
25-Mar-17 01:00:00	0	21	898	4157
25-Mar-17 01:30:00	0	22	895	4157
25-Mar-17 02:00:00	0	22	892	4157
25-Mar-17 02:30:00	0	23	889	4157
25-Mar-17 03:00:00	0	23	886	4157
25-Mar-17 03:30:00	0	23	883	4157
25-Mar-17 04:00:00	0	24	880	4157
25-Mar-17 04:30:00	0	24	877	4157
25-Mar-17 05:00:00	0	25	875	4157
25-Mar-17 05:30:00	0	25	872	4157
25-Mar-17 06:00:00	0	25	869	4157
25-Mar-17 06:30:00	0	26	867	4157
25-Mar-17 07:00:00	0	26	865	4157
25-Mar-17 07:30:00	0	26	863	4157
25-Mar-17 08:00:00	0	27	860	4157
25-Mar-17 08:30:00	0	27	858	4157
25-Mar-17 09:00:00	0	27	856	4157
25-Mar-17 09:30:00	0	28	854	4157
25-Mar-17 10:00:00	0	28	852	4157
25-Mar-17 10:30:00	0	29	850	4157
25-Mar-17 11:00:00	0	29	847	4157
25-Mar-17 11:30:00	0	29	845	4157
25-Mar-17 12:00:00	0	30	843	4157
25-Mar-17 12:30:00	0	30	841	4157
25-Mar-17 13:00:00	0	31	839	4157
25-Mar-17 13:30:00	0	31	838	4157
25-Mar-17 14:00:00	0	31	836	4157
25-Mar-17 14:30:00	0	32	834	4157
25-Mar-17 15:00:00	0	32	833	4157
25-Mar-17 15:30:00	0	32	831	4157
25-Mar-17 16:00:00	0	32	830	4157
25-Mar-17 16:30:00	0	33	828	4157
25-Mar-17 17:00:00	0	33	827	4157
25-Mar-17 17:30:00	0	33	825	4157
25-Mar-17 18:00:00	0	34	823	4157
25-Mar-17 18:30:00	0	34	822	4157
25-Mar-17 19:00:00	0	34	820	4157
25-Mar-17 19:30:00	0	34	819	4157
25-Mar-17 20:00:00	0	34	818	4157
25-Mar-17 20:30:00	0	35	816	4157
25-Mar-17 21:00:00	0	35	815	4157
25-Mar-17 21:30:00	0	35	813	4157
25-Mar-17 22:00:00	0	35	812	4157

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
25-Mar-17 22:30:00	0	35	811	4157
25-Mar-17 23:00:00	0	35	809	4157
25-Mar-17 23:30:00	0	36	808	4157
26-Mar-17 00:00:00	0	36	807	4157
26-Mar-17 00:30:00	0	36	805	4157
26-Mar-17 01:00:00	0	36	804	4157
26-Mar-17 01:30:00	0	36	803	4157
26-Mar-17 02:00:00	0	36	802	4157
26-Mar-17 02:30:00	0	37	800	4157
26-Mar-17 03:00:00	0	37	799	4157
26-Mar-17 03:30:00	0	37	798	4157
26-Mar-17 04:00:00	0	37	797	4157
26-Mar-17 04:30:00	0	37	796	4157
26-Mar-17 05:00:00	0	37	795	4157
26-Mar-17 05:30:00	0	38	793	4157
26-Mar-17 06:00:00	0	38	792	4157
26-Mar-17 06:30:00	0	38	791	4157
26-Mar-17 07:00:00	0	38	790	4157
26-Mar-17 07:30:00	0	38	789	4157
26-Mar-17 08:00:00	0	38	788	4157
26-Mar-17 08:30:00	0	38	787	4157
26-Mar-17 09:00:00	0	39	786	4157
26-Mar-17 09:30:00	0	39	785	4157
26-Mar-17 10:00:00	0	39	783	4157
26-Mar-17 10:30:00	0	40	782	4157
26-Mar-17 11:00:00	0	40	781	4157
26-Mar-17 11:30:00	0	40	780	4157
26-Mar-17 12:00:00	0	40	779	4157
26-Mar-17 12:30:00	0	40	778	4157
26-Mar-17 13:00:00	0	41	777	4157
26-Mar-17 13:30:00	0	41	776	4157
26-Mar-17 14:00:00	0	41	775	4157
26-Mar-17 14:30:00	0	41	774	4157
26-Mar-17 15:00:00	0	41	773	4157
26-Mar-17 15:30:00	0	42	772	4157
26-Mar-17 16:00:00	0	42	771	4157
26-Mar-17 16:30:00	0	42	770	4157
26-Mar-17 17:00:00	0	42	769	4157
26-Mar-17 17:30:00	0	42	768	4157
26-Mar-17 18:00:00	0	43	767	4157
26-Mar-17 18:30:00	0	43	766	4157
26-Mar-17 19:00:00	0	43	766	4157
26-Mar-17 19:30:00	0	43	765	4157
26-Mar-17 20:00:00	0	43	764	4157
26-Mar-17 20:30:00	0	43	763	4157
26-Mar-17 21:00:00	0	43	762	4157
26-Mar-17 21:30:00	0	43	761	4157
26-Mar-17 22:00:00	0	44	760	4157
26-Mar-17 22:30:00	0	44	760	4157
26-Mar-17 23:00:00	0	44	759	4157
26-Mar-17 23:30:00	0	44	758	4157
27-Mar-17 00:00:00	0	44	757	4157

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
27-Mar-17 00:30:00	0	44	756	4157
27-Mar-17 01:00:00	0	44	755	4157
27-Mar-17 01:30:00	0	44	755	4157
27-Mar-17 02:00:00	0	44	754	4157
27-Mar-17 02:30:00	0	44	753	4157
27-Mar-17 03:00:00	0	44	752	4157
27-Mar-17 03:30:00	0	44	751	4157
27-Mar-17 04:00:00	0	44	750	4157
27-Mar-17 04:30:00	0	45	750	4157
27-Mar-17 05:00:00	0	45	749	4157
27-Mar-17 05:30:00	0	45	748	4157
27-Mar-17 06:00:00	0	45	747	4157
27-Mar-17 06:30:00	0	45	747	4157
27-Mar-17 07:00:00	0	45	746	4157
27-Mar-17 07:30:00	0	45	746	4157
27-Mar-17 08:00:00	30	21	1390	4178
27-Mar-17 08:30:00	22	10	1392	4196
27-Mar-17 09:00:00	18	7	1405	4211
27-Mar-17 09:30:00	18	5	1438	4224
27-Mar-17 10:00:00	0	4	1162	4233
27-Mar-17 10:30:00	0	6	1003	4233
27-Mar-17 11:00:00	0	8	940	4233
27-Mar-17 11:30:00	0	9	901	4233
27-Mar-17 12:00:00	0	11	873	4233
27-Mar-17 12:30:00	0	13	854	4233
27-Mar-17 13:00:00	18	13	1391	4240
27-Mar-17 13:30:00	16	9	1443	4252
27-Mar-17 14:00:00	0	8	1011	4254
27-Mar-17 14:30:00	0	10	932	4254
27-Mar-17 15:00:00	0	11	893	4254
27-Mar-17 15:30:00	0	13	870	4254
27-Mar-17 16:00:00	0	14	859	4254
27-Mar-17 16:30:00	0	15	853	4254
27-Mar-17 17:00:00	0	17	847	4254
27-Mar-17 17:30:00	0	18	842	4254
27-Mar-17 18:00:00	0	19	837	4254
27-Mar-17 18:30:00	0	20	832	4254
27-Mar-17 19:00:00	0	21	828	4254
27-Mar-17 19:30:00	0	22	824	4254
27-Mar-17 20:00:00	0	23	821	4254
27-Mar-17 20:30:00	0	24	817	4254
27-Mar-17 21:00:00	0	25	814	4254
27-Mar-17 21:30:00	0	26	811	4254
27-Mar-17 22:00:00	0	26	808	4254
27-Mar-17 22:30:00	0	27	805	4254
27-Mar-17 23:00:00	0	28	802	4254
27-Mar-17 23:30:00	0	28	800	4254
28-Mar-17 00:00:00	0	29	797	4254
28-Mar-17 00:30:00	0	30	795	4254
28-Mar-17 01:00:00	0	30	792	4254
28-Mar-17 01:30:00	0	31	790	4254
28-Mar-17 02:00:00	0	31	788	4254

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (pis)	Totalizer (bbls)
28-Mar-17 02:30:00	0	32	786	4254
28-Mar-17 03:00:00	0	32	784	4254
28-Mar-17 03:30:00	0	33	783	4254
28-Mar-17 04:00:00	0	33	781	4254
28-Mar-17 04:30:00	0	34	779	4254
28-Mar-17 05:00:00	0	34	777	4254
28-Mar-17 05:30:00	0	35	776	4254
28-Mar-17 06:00:00	0	35	774	4254
28-Mar-17 06:30:00	0	35	772	4254
28-Mar-17 07:00:00	0	36	771	4254
28-Mar-17 07:30:00	0	36	769	4254
28-Mar-17 08:00:00	0	36	768	4254
28-Mar-17 08:30:00	0	37	767	4254
28-Mar-17 09:00:00	0	37	765	4254
28-Mar-17 09:30:00	0	37	763	4254
28-Mar-17 10:00:00	0	38	762	4254
28-Mar-17 10:30:00	0	38	761	4254
28-Mar-17 11:00:00	0	39	760	4261
28-Mar-17 11:30:00	0	39	758	4261
28-Mar-17 12:00:00	0	39	757	4261
28-Mar-17 12:30:00	37	48	1339	4264
28-Mar-17 13:00:00	28	25	1387	4274
28-Mar-17 13:30:00	17	14	1395	4288
28-Mar-17 14:00:00	17	10	1409	4300
28-Mar-17 14:30:00	0	8	1137	4307
28-Mar-17 15:00:00	15	7	1404	4318
28-Mar-17 15:30:00	15	6	1416	4329
28-Mar-17 16:00:00	15	5	1425	4339
28-Mar-17 16:30:00	15	4	1431	4350
28-Mar-17 17:00:00	15	3	1437	4361
28-Mar-17 17:30:00	15	3	1443	4372
28-Mar-17 18:00:00	15	2	1448	4382
28-Mar-17 18:30:00	0	2	1146	4388
28-Mar-17 19:00:00	0	4	1040	4388
28-Mar-17 19:30:00	0	5	988	4388
28-Mar-17 20:00:00	0	6	952	4388
28-Mar-17 20:30:00	20	8	1389	4393
28-Mar-17 21:00:00	16	5	1417	4405
28-Mar-17 21:30:00	16	4	1434	4416
28-Mar-17 22:00:00	16	3	1443	4427
28-Mar-17 22:30:00	16	2	1451	4439
28-Mar-17 23:00:00	0	3	1091	4440
28-Mar-17 23:30:00	0	4	1020	4440
29-Mar-17 00:00:00	0	5	979	4440
29-Mar-17 00:30:00	0	6	951	4440
29-Mar-17 01:00:00	0	8	930	4440
29-Mar-17 01:30:00	0	9	916	4440
29-Mar-17 02:00:00	0	10	907	4440
29-Mar-17 02:30:00	19	10	1348	4445
29-Mar-17 03:00:00	0	7	1013	4453
29-Mar-17 03:30:00	0	8	937	4453
29-Mar-17 04:00:00	0	9	919	4453

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (pis)	Totalizer (bbls)
29-Mar-17 04:30:00	0	10	907	4453
29-Mar-17 05:00:00	23	12	1341	4457
29-Mar-17 05:30:00	17	7	1378	4470
29-Mar-17 06:00:00	17	5	1403	4482
29-Mar-17 06:30:00	16	4	1418	4494
29-Mar-17 07:00:00	16	3	1431	4505
29-Mar-17 07:30:00	16	2	1444	4517
29-Mar-17 08:00:00	16	2	1451	4528
29-Mar-17 08:30:00	0	2	1091	4528
29-Mar-17 09:00:00	0	4	1027	4528
29-Mar-17 09:30:00	0	5	990	4528
29-Mar-17 10:00:00	0	6	969	4528
29-Mar-17 10:30:00	0	7	957	4528
29-Mar-17 11:00:00	0	8	945	4528
29-Mar-17 11:30:00	0	9	935	4528
29-Mar-17 12:00:00	0	10	927	4528
29-Mar-17 12:30:00	0	11	919	4528
29-Mar-17 13:00:00	0	12	911	4528
29-Mar-17 13:30:00	0	13	904	4528
29-Mar-17 14:00:00	12	12	1225	4534
29-Mar-17 14:30:00	11	9	1275	4542
29-Mar-17 15:00:00	11	7	1302	4550
29-Mar-17 15:30:00	18	6	1392	4560
29-Mar-17 16:00:00	13	4	1393	4570
29-Mar-17 16:30:00	12	4	1392	4579
29-Mar-17 17:00:00	11	4	1392	4587
29-Mar-17 17:30:00	10	3	1390	4594
29-Mar-17 18:00:00	11	3	1392	4601
29-Mar-17 18:30:00	8	3	1391	4608
29-Mar-17 19:00:00	10	3	1393	4611
29-Mar-17 19:30:00	0	3	1276	4614
29-Mar-17 20:00:00	0	4	1080	4614
29-Mar-17 20:30:00	0	5	1028	4614
29-Mar-17 21:00:00	0	6	997	4614
29-Mar-17 21:30:00	0	7	981	4614
29-Mar-17 22:00:00	0	8	970	4614
29-Mar-17 22:30:00	0	9	960	4614
29-Mar-17 23:00:00	0	10	951	4614
29-Mar-17 23:30:00	0	10	943	4614
30-Mar-17 00:00:00	0	11	936	4614
30-Mar-17 00:30:00	0	12	929	4614
30-Mar-17 01:00:00	0	13	923	4614
30-Mar-17 01:30:00	0	13	917	4614
30-Mar-17 02:00:00	0	14	911	4614
30-Mar-17 02:30:00	0	15	906	4614
30-Mar-17 03:00:00	0	16	901	4614
30-Mar-17 03:30:00	0	16	896	4614
30-Mar-17 04:00:00	0	17	892	4614
30-Mar-17 04:30:00	0	17	887	4614
30-Mar-17 05:00:00	0	18	883	4614
30-Mar-17 05:30:00	0	18	879	4614
30-Mar-17 06:00:00	0	19	875	4614

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
30-Mar-17 06:30:00	0	19	872	4614
30-Mar-17 07:00:00	0	20	868	4614
30-Mar-17 07:30:00	0	20	865	4614
30-Mar-17 08:00:00	0	21	862	4614
30-Mar-17 08:30:00	19	15	1344	4627
30-Mar-17 09:00:00	17	9	1383	4639
30-Mar-17 09:30:00	16	7	1401	4651
30-Mar-17 10:00:00	16	5	1415	4662
30-Mar-17 10:30:00	15	4	1425	4673
30-Mar-17 11:00:00	15	3	1432	4684
30-Mar-17 11:30:00	15	3	1440	4695
30-Mar-17 12:00:00	15	2	1447	4705
30-Mar-17 12:30:00	0	2	1158	4711
30-Mar-17 13:00:00	0	3	1063	4711
30-Mar-17 13:30:00	0	5	1015	4711
30-Mar-17 14:00:00	0	6	986	4711
30-Mar-17 14:30:00	0	7	971	4711
30-Mar-17 15:00:00	0	8	960	4711
30-Mar-17 15:30:00	21	10	1340	4713
30-Mar-17 16:00:00	12	7	1342	4724
30-Mar-17 16:30:00	11	6	1352	4731
30-Mar-17 17:00:00	10	5	1368	4739
30-Mar-17 17:30:00	10	5	1376	4746
30-Mar-17 18:00:00	10	4	1384	4753
30-Mar-17 18:30:00	10	4	1388	4760
30-Mar-17 19:00:00	10	4	1392	4767
30-Mar-17 19:30:00	8	4	1394	4772
30-Mar-17 20:00:00	0	3	1398	4774
30-Mar-17 20:30:00	1	3	1401	4776
30-Mar-17 21:00:00	0	3	1404	4777
30-Mar-17 21:30:00	9	3	1408	4778
30-Mar-17 22:00:00	0	3	1410	4779
30-Mar-17 22:30:00	0	3	1414	4779
30-Mar-17 23:00:00	0	3	1417	4778
30-Mar-17 23:30:00	0	3	1422	4778
31-Mar-17 00:00:00	0	3	1422	4778
31-Mar-17 00:30:00	0	3	1172	4778
31-Mar-17 01:00:00	0	4	1093	4778
31-Mar-17 01:30:00	0	5	1052	4778
31-Mar-17 02:00:00	0	6	1026	4778
31-Mar-17 02:30:00	0	7	1012	4778
31-Mar-17 03:00:00	0	8	1002	4778
31-Mar-17 03:30:00	0	9	993	4778
31-Mar-17 04:00:00	0	9	984	4778
31-Mar-17 04:30:00	0	10	977	4778
31-Mar-17 05:00:00	12	9	1343	4786
31-Mar-17 05:30:00	11	7	1363	4794
31-Mar-17 06:00:00	11	6	1378	4802
31-Mar-17 06:30:00	11	5	1386	4810
31-Mar-17 07:00:00	11	4	1395	4817
31-Mar-17 07:30:00	10	4	1397	4824
31-Mar-17 08:00:00	2	4	1401	4831

Injection Well Monthly Reportable Information

	Flowrate (gpm)	Casing Pressure (psi)	Injection Pressure (psi)	Totalizer (bbls)
31-Mar-17 08:30:00	10	3	1407	4838
31-Mar-17 09:00:00	10	3	1409	4844
31-Mar-17 09:30:00	10	3	1418	4851
31-Mar-17 10:00:00	10	3	1422	4858
31-Mar-17 10:30:00	10	3	1425	4865
31-Mar-17 11:00:00	10	2	1428	4872
31-Mar-17 11:30:00	0	2	1298	4878
31-Mar-17 12:00:00	0	3	1123	4878
31-Mar-17 12:30:00	0	4	1076	4878
31-Mar-17 13:00:00	0	5	1050	4878
31-Mar-17 13:30:00	0	6	1037	4878
31-Mar-17 14:00:00	0	7	1025	4878
31-Mar-17 14:30:00	0	7	1016	4878
31-Mar-17 15:00:00	0	8	1006	4878
31-Mar-17 15:30:00	15	9	1342	4882
31-Mar-17 16:00:00	1	7	1342	4890
31-Mar-17 16:30:00	0	6	1343	4890
31-Mar-17 17:00:00	0	5	1347	4890
31-Mar-17 17:30:00	0	5	1345	4890
31-Mar-17 18:00:00	0	5	1343	4890
31-Mar-17 18:30:00	0	5	1342	4890
31-Mar-17 19:00:00	0	5	1342	4890
31-Mar-17 19:30:00	0	5	1342	4890
31-Mar-17 20:00:00	0	5	1344	4890
31-Mar-17 20:30:00	0	5	1345	4890
31-Mar-17 21:00:00	0	5	1345	4890
31-Mar-17 21:30:00	0	5	1346	4890
31-Mar-17 22:00:00	0	5	1345	4890
31-Mar-17 22:30:00	0	5	1344	4890
31-Mar-17 23:00:00	0	5	1346	4890
31-Mar-17 23:30:00	0	5	1346	4890
01-Apr-17 00:00:00	0	5	1346	4890

Integrity Testing
January – March 2017



NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

MECHANICAL INTEGRITY TEST REPORT

(TA OR UIC)

Date of Test 3-8-17 Operator Western Refining SW Inc API # 30-0 45-35 747
Property Name Water Disposal Well Well # 2 Location: Unit H Sec 27 Twn 29 Rge 11

Land Type:

State _____
Federal _____
Private _____
Indian _____

Well Type:

Water Injection _____
Salt Water Disposal ☒
Gas Injection _____
Producing Oil/Gas _____
Pressure observation _____

Temporarily Abandoned Well (Y/N) (Y)

TA Expires: _____

Casing Pres. 0
Bradenhead Pres. 0
Tubing Pres. 306
Int. Casing Pres. 0

Tbg. SI Pres. _____
Tbg. Inj. Pres. _____

Max. Inj. Pres. _____

Pressured annulus up to 500 psi. for 30 mins. Test passed/failed

REMARKS:

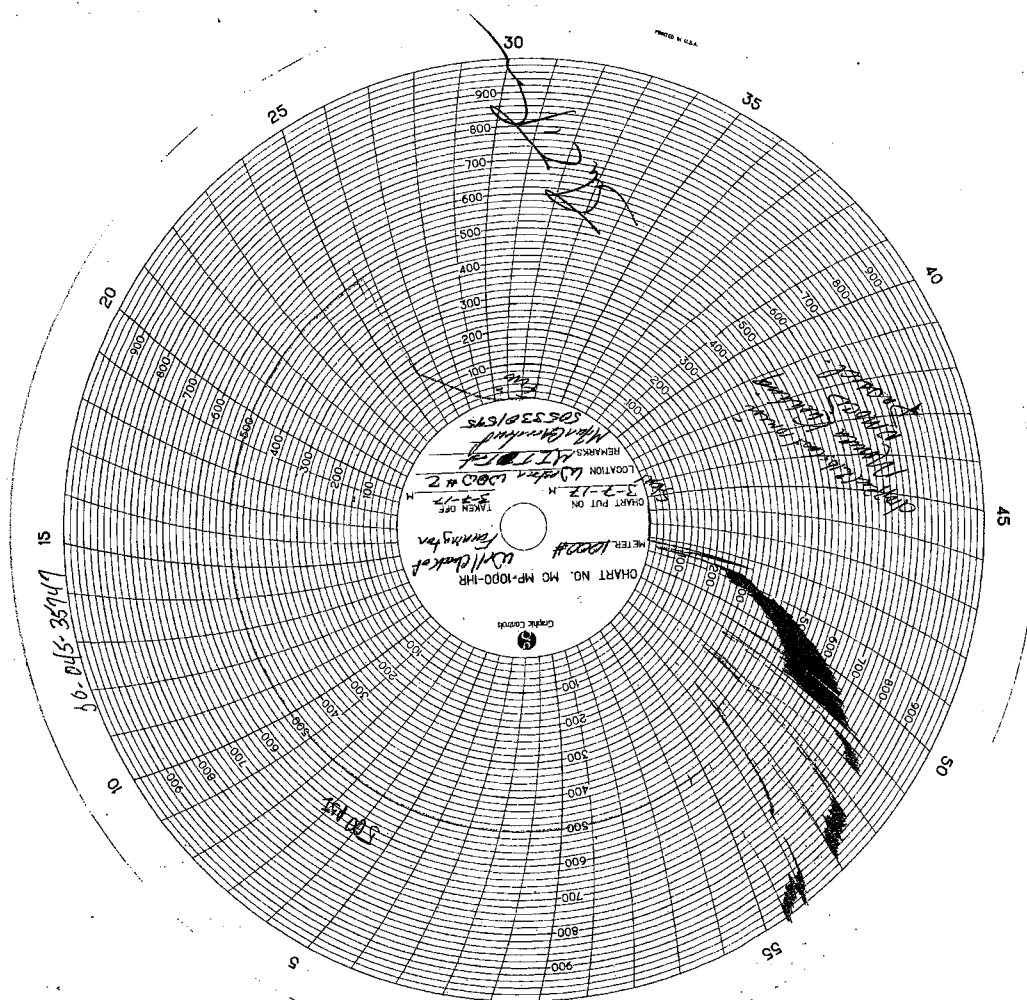
packer set 7230
top perf 7312
dropped to 498 last 10 minutes.

By John E. [Signature]
(Operator Representative)

Witness Monica Kuhlman
(NMOCD)

(Position)

Revised 02-11-02





NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-8178 FAX: (505) 334-6170
[http://emrmd.state.nm.us/ocd/District III/Solistic.htm](http://emrmd.state.nm.us/ocd/District%20III/Solistic.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 3-8-17 Operator Western Refining SW Inc API #30-0 45-35747
Property Name Waste Disposal Well Well No. 2 Location: Unit H Section 29 Township 29 Range 11
Well Status (Shut-In or Producing) Initial PSI: Tubing 305 Intermediate 0 Casing 0 Bradenhead 1.5

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE				
	BH	Bradenhead		INTERM	
		Int	Csg	Int	Csg
TIME					
5 min	0	0	0	0	0
10 min	0	0	0	0	0
15 min	0	0	0	0	0
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow	
Surges	
Down to Nothing	
Nothing	/
Gas	
Gas & Water	
Water	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN PRESSURE

BRADENHEAD 0

INTERMEDIATE 0

REMARKS:

BH - Nothing when opened - Nothing when opened after 5 min shut in Int - Nothing when opened - Nothing when opened after 5 min shut in -

By [Signature]

Witness Monica Kullings

(Position)

E-mail address _____