

GW-028

**ANNUAL GW
MONITORING
REPORT (2 of 6)**

2014

CITY OF SANGRE DE TORO, CO. K. ERNST, L.D. K. SCHNEIDER, P.E. MW. P. HILGERS, T.M. TR.
PROJECT: MTBE CRITICAL GROUNDWATER SCREENING LEVEL EXCEEDANCE AREAS
DATE: 2/23/2015
DRAWN BY: J. HILGERS



- LEGEND:
- ◆ MONITORING WELL
 - ◆ RECOVERY WELL
 - ◆ IRRIGATION WELL
 - ◆ ABANDONED WELL
- WELLS EXCEEDING SCREENING LEVEL
- ◆ MONITORING WELL
 - ◆ RECOVERY WELL
- MTBE GROUNDWATER EXCEEDANCE AREA

NOTES:

1. MTBE IS METHYL-TERT-BUTYL ETHER.
2. WELLS NOT SAMPLED DURING THIS EVENT ARE SHOWN IN GRAY.
3. X INDICATES THAT THE ANALYTE WAS NOT DETECTED AT A REPORTING LIMIT EQUAL TO X.
4. J INDICATES AN ESTIMATED VALUE.
5. ALL CONCENTRATIONS ARE IN MILLISECONDS PER LITER (mg/L).
6. CRITICAL GROUNDWATER SCREENING LEVEL FOR MTBE IS 0.125 mg/L.
7. PSH INDICATES PHASE SEPARATED HYDROCARBONS (PSH) WERE OBSERVED IN THE IDENTIFIED WELL.



NAVAJO REFINING COMPANY
ARTESIA REFINERY, EDDY COUNTY, NEW MEXICO
2014 ANNUAL GROUNDWATER REPORT

**MTBE CRITICAL GROUNDWATER
SCREENING LEVEL EXCEEDANCE AREAS
2014 FIRST SEMIANNUAL EVENT**



FIGURE

18

**Appendix A through G
(Contained on Compact Disc)**

Appendix A – Monitoring Well Logs

Appendix B – 2014 Rainfall Records

Appendix C – Laboratory Reports
and Tabulated Data 2013-2014

Tables:

*C.1 - Groundwater Analytical
Data 2012-2014: Total Petroleum
Hydrocarbons*

*C.2 - Groundwater Analytical
Data 2012-2014: Total Metals*

*C.3 - Groundwater Analytical
Data 2012-2014: Dissolved Metals*

*C.4 - Groundwater Analytical
Data 2012-2014: Volatile Organic
Compounds*

*C.5 - Groundwater Analytical
Data 2012-2014: Semivolatile
Organic Compounds*

*C.6 - Groundwater Analytical
Data 2012-2014: Water Quality
Parameters*

2014 Analytical Data Reports

Appendix D – Trend Plots of COC
Concentrations, Groundwater
Elevations, and PSH Thickness

Appendix E – Data Validation
Reports

Appendix F – Recovery System
Records

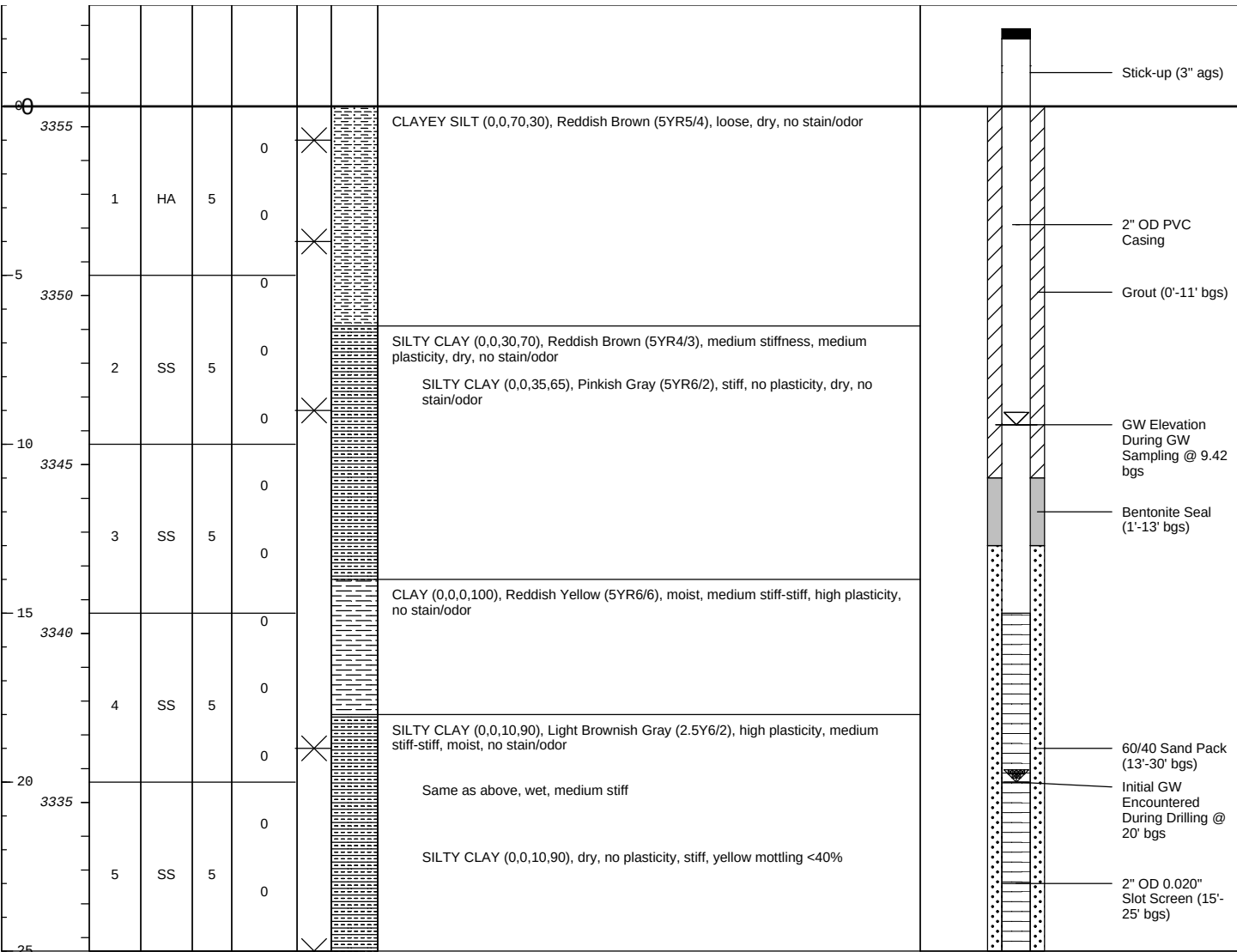
Appendix G – January 30, 2015
Status of the Groundwater Recovery
System Letter

Appendix A

Monitoring Well Logs

Date Start/Finish: 2/5/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 673288.01 Easting: 524663.00 Casing Elevation: 3358.81 Borehole Depth: 25' bgs Surface Elevation: 3355.6 Descriptions By: Eric Bergersen	Well/Boring ID: MW-125 Client:  Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay)

Date Start/Finish: 1/29/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 672845.69 Easting: 525458.24 Casing Elevation: 3356.60 Borehole Depth: 34' bgs Surface Elevation: 3353.6 Descriptions By: Eric Bergersen	Well/Boring ID: MW-126A Client:  Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

3355									
3350	1	HA	4	0	0	X		SILTY CLAY (0,0,20,80), Yellowish Red (5YR5/6, dry, stiff, no plasticity, no stain/odor	Stick-up (3' ags)
5				0	0			SILTY CLAY with GRAVEL (10,0,30,60), Yellowish Red (5YR5/6), dry, stiff, no plasticity, cobbles 1 inch, subrounded, no stain/odor	2" OD PVC Casing
3345	2	SS	2.5	0	0			CLAYEY SILT with GRAVEL (40,0,40,20), Reddish Yellow (5YR7/6), gravels subrounded 0.5"-1", no stain/odor	Grout (0-15' bgs)
10				0	0			SILTY CLAY (0,0,35,65), Yellowish Red (5YR5/8), dry, no plasticity, medium stiff, no stain/odor	
3340	3	SS	4	3.1	0			SAA, Pinkish White (5YR8/2)	GW Elevation During GW Sampling @ 14.64 bgs
15				34.7	5.4				Bentonite Seal (15'-17' bgs)
3335	4	SS	5	10.4	6.8				
20				1554	0			SILTY CLAY (0,0,20,80), Light Greenish White (GLE1 8/10Y), wet, soft, high plasticity, stain and odor present	Initial GW Encountered During Drilling @ 21' bgs
3330	5	SS	5	0	0			SILTY CLAY (0,0,20,80), Pinkish Gray, wet, soft, medium plasticity, no stain, slight odor	60/40 Sand Pack (17'-34' bgs)
25				0	0			CLAY (0,0,0,100), Pinkish Gray (5YR7/2), moist, high plasticity, medium stiffness, no stain/odor	2" OD 0.020" Slot Screen (19'-34' bgs)
3325	6	SS	5	0	0			SILTY CLAY with GRAVEL (45,0,15,40), White (5YR8/1), wet, soft, medium plasticity, subangular to subrounded 0.2-1" in diameter, poorly sorted, no stain/odor	
30				0	0			SILTY CLAY (0,0,15,85), White (5YR 8/1), slightly moist, stiff, medium plasticity, no stain/odor	
3320	7	SS	5	0	0			CLAY (0,0,0,100), Yellowish Red (5YR5/6), stiff, dry, medium-high plasticity, no stain/odor	

	Remarks: ags = above ground surface; bgs = below ground surface; HA = Hand Auger; ppm = parts per million; SS = split spoon; Lithology described as a percentage (Gravel, Sand, Silt, Clay) Analytical Column: X= designates soil sample; circle shaded in= positive soil shake test, open circle= negative soil shake test

Date Start/Finish: 1/27/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 672843.26 Easting: 525464.41 Casing Elevation: 3356.67 Borehole Depth: 75' bgs Surface Elevation: 3353.6 Descriptions By: Eric Bergersen	Well/Boring ID: MW-126B Client:  Location: Artesia, NM

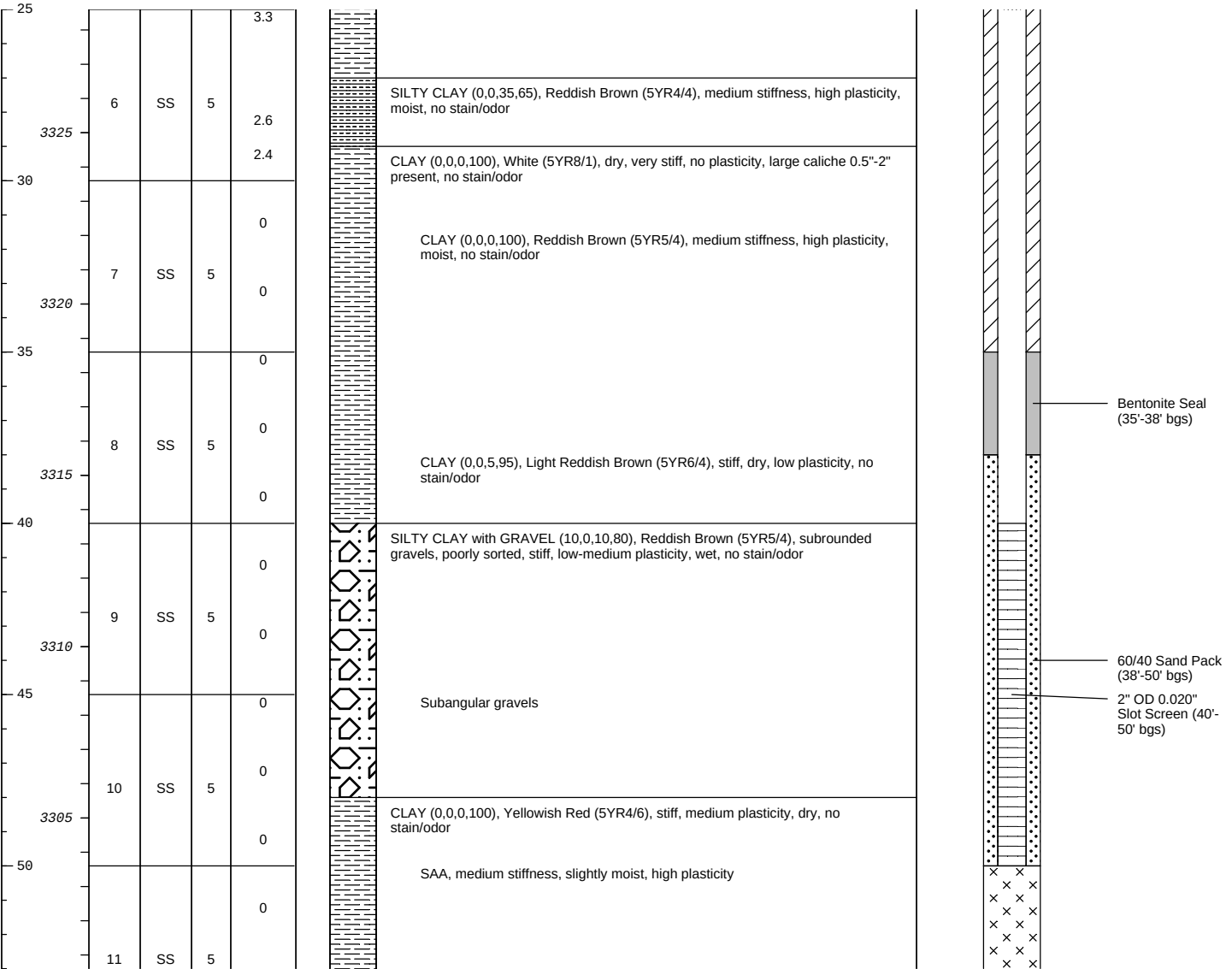
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

3355									
0									Stick-up (3' ags)
3350		1	HA	5	0	X		CLAYEY SILT (0,0,80,20), Reddish Brown (5YR4/4), loose, dry, no stain/odor	
5					0			SANDY SILT (0,20,80,0), Reddish Yellow (5YR6/6), loose, dry, very fine grained, no stain/odor	2" OD PVC Casing
		2	SS	4	0			GRAVEL (95,5,0,0), Reddish Yellow (5YR6/6), well sorted, dry	
3345					0				
10		3	SS	4	0			SILTY CLAY (0,0,20,80), Yellowish Red (5YR5/6), medium stiffness, medium plasticity, slightly moist, no stain/odor	
					0			SILTY CLAY (0,0,30,70), White (GLE1 8/N), stiff, no plasticity, dry, hydrocarbon stain/odor	
3340					231				
15		4	SS	5	375	X			GW Elevation During GW Sampling @ 14.75 bgs
3335					393				Grout (0-35' bgs)
					65.7			SILTY CLAY with some GRAVEL (30,0,20,50), White (5YR8/1), wet, high plasticity, medium stiffness, no stain/odor, gravels <0.25", angular, poorly sorted	
20					9.4	X		SILTY CLAY (0,0,15,85), White (5YR8/1), moist, high plasticity, medium stiff- stiff, no odor/stain	Initial GW Encountered During Drilling @ 20.5' bgs
		5	SS	5					
3330					5.2			CLAY (0,0,0,100), Gray (5YR6/1), stiff, no plasticity, dry, white calcareous nodules present <15%, no stain/odor	
25									

	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay)

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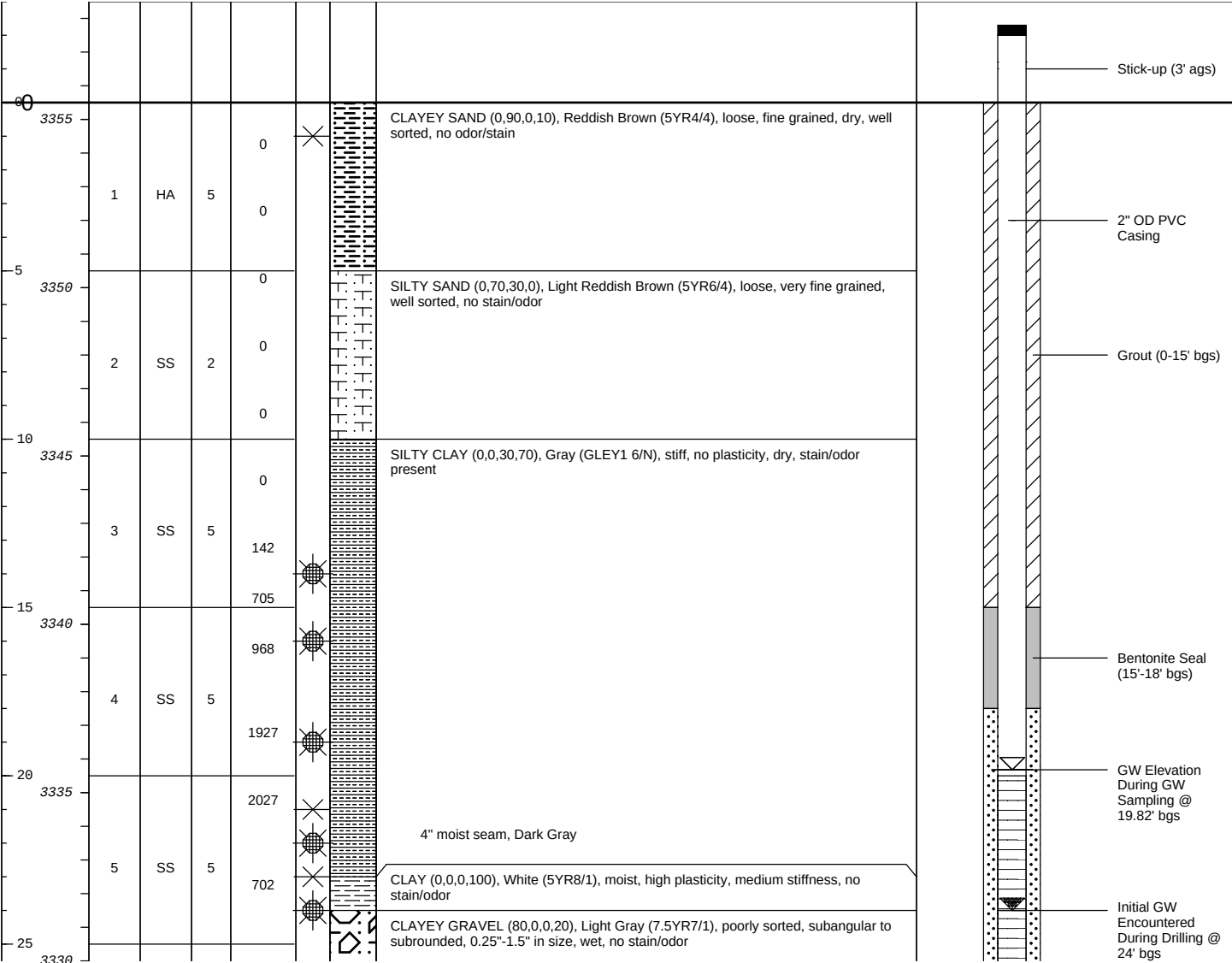
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

3300				0					
55				0				CLAY (0,0,0,100), Brown (7.5YR5/4), very stiff, dry, low plasticity, no stain/odor	
	12	SS	5	0					
3295				0					
60				0					
	13	SS	5	0					
3290				0					
65				0					
	14	SS	5	0				SAA, Light Reddish Brown (5YR6/4)	
3285				0					
70				0					
	15	SS	5	0					
3280				0					
75									

	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay)

Date Start/Finish: 1/23/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 672184.21 Easting: 525464.20 Casing Elevation: 3358.39 Borehole Depth: 50' bgs Surface Elevation: 3355.5 Descriptions By: Eric Bergersen	Well/Boring ID: MW-127 Client:  Location: Artesia, NM

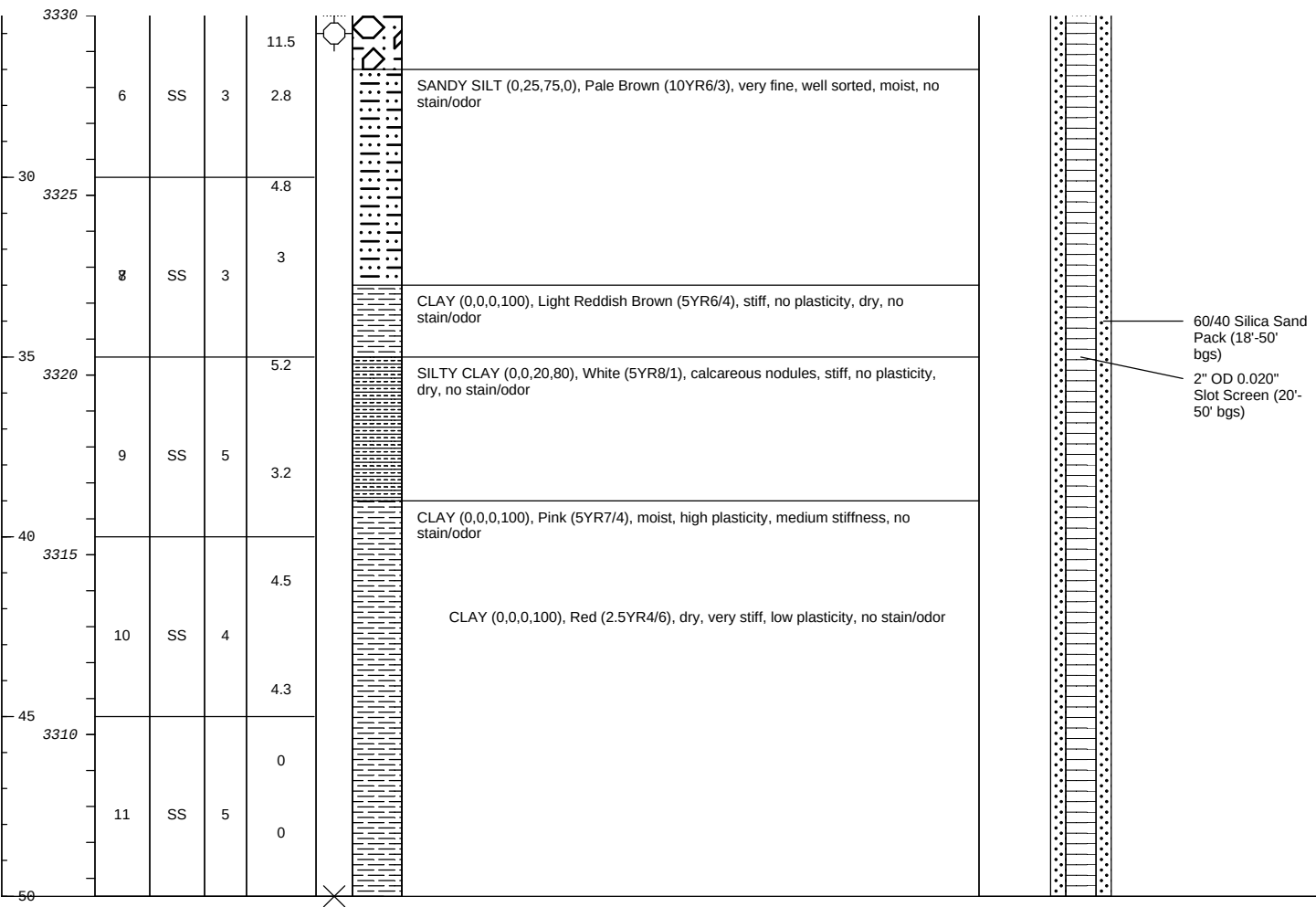
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



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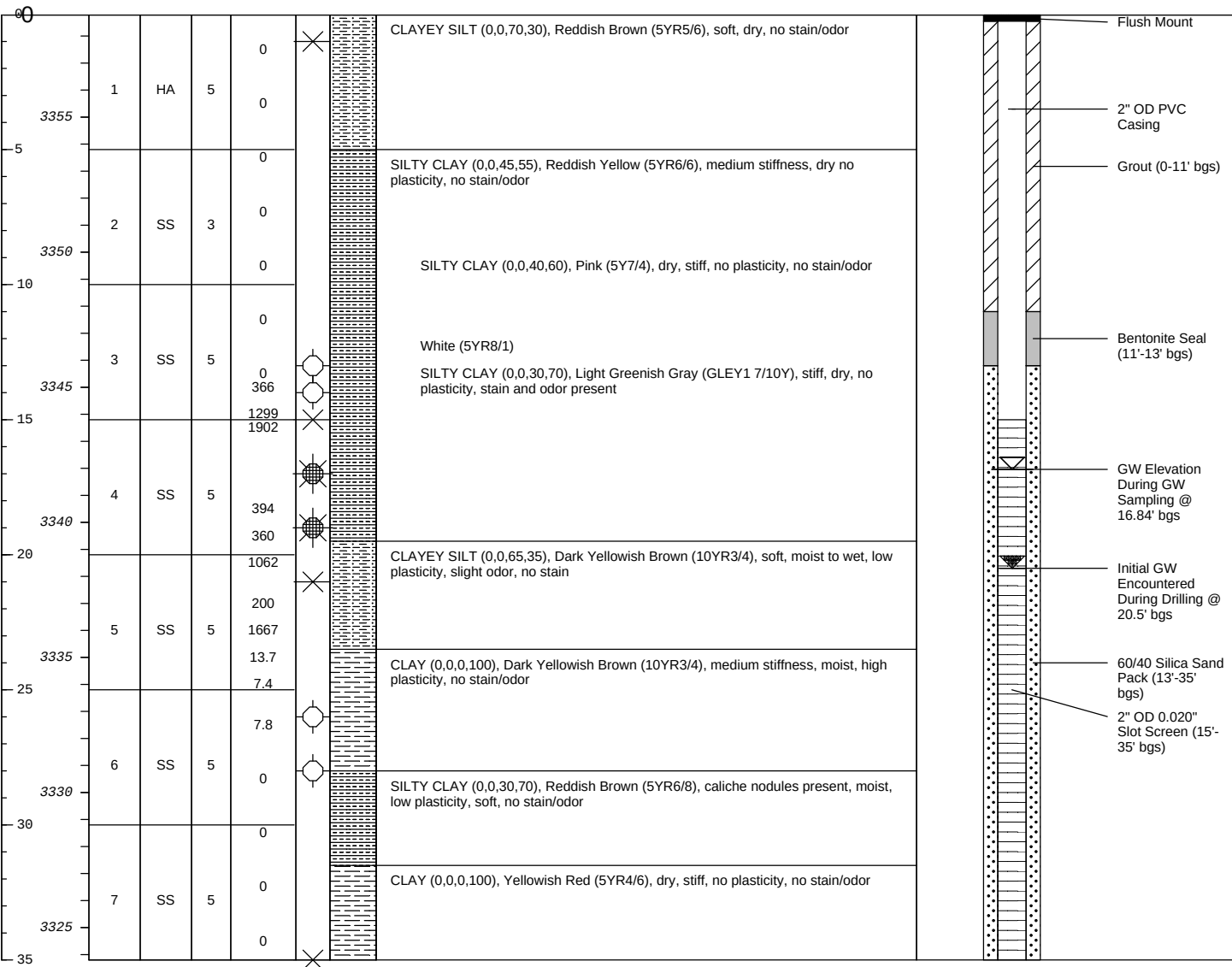
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



 Infrastructure · Water · Environment · Buildings	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay) Analytical Column: X= designates soil sample; circle shaded in= positive soil shake test, open circle= negative soil shake test

Date Start/Finish: 1/29/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 671846.09 Easting: 524917.06 Casing Elevation: 3358.77 Borehole Depth: 35' bgs Surface Elevation: 3358.8 Descriptions By: Eric Bergersen	Well/Boring ID: MW-128 Client:  Location: Artesia, NM

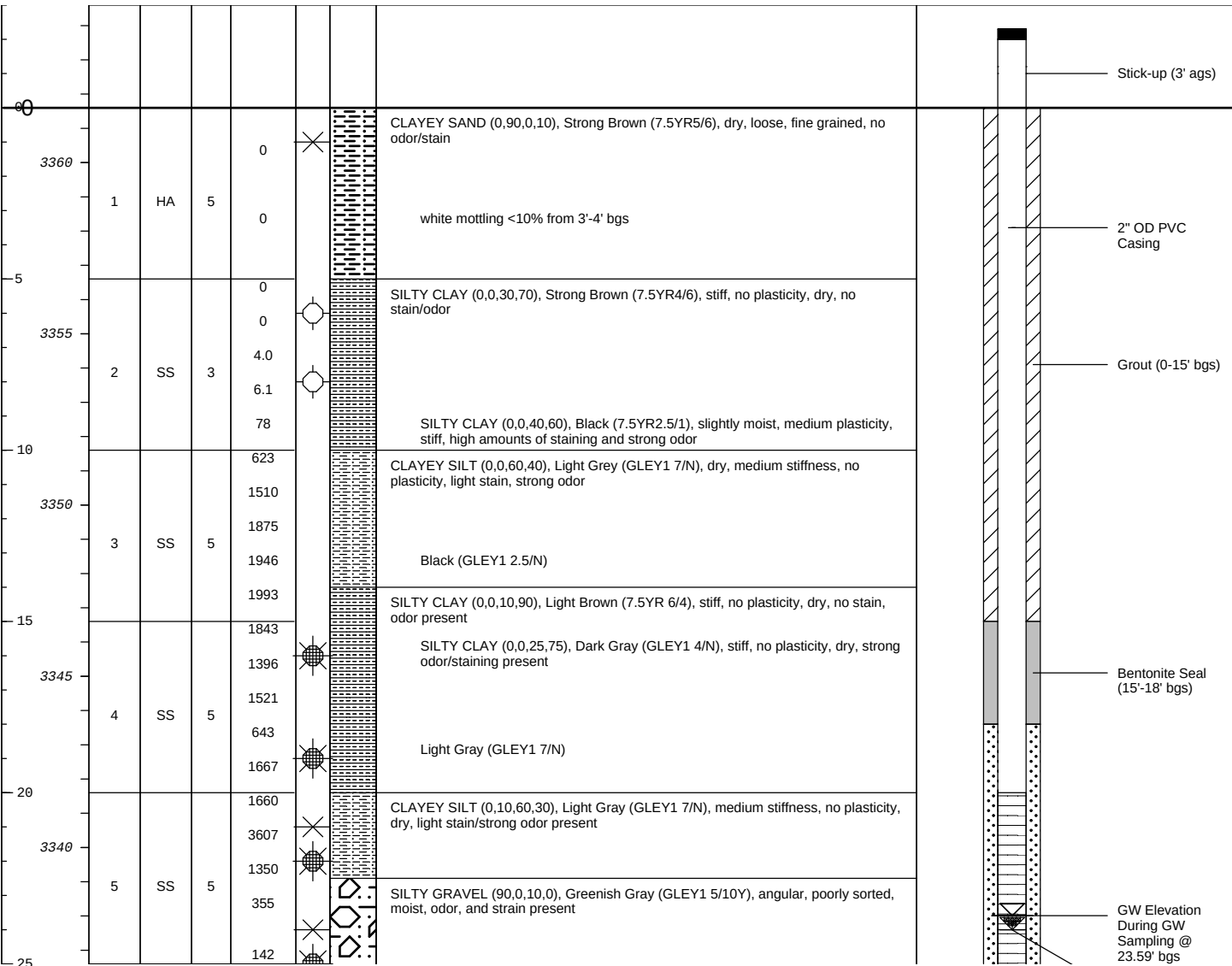
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



 Infrastructure · Water · Environment · Buildings	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay) Analytical Column: X= designates soil sample; circle shaded in= positive soil shake test, open circle= negative soil shake test

Date Start/Finish: 1/22/2014 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 671185.08 Easting: 524876.72 Casing Elevation: 3364.38 Borehole Depth: 50' bgs Surface Elevation: 3361.6 Descriptions By: Eric Bergersen	Well/Boring ID: MW-129 Client:  Location: Artesia, NM

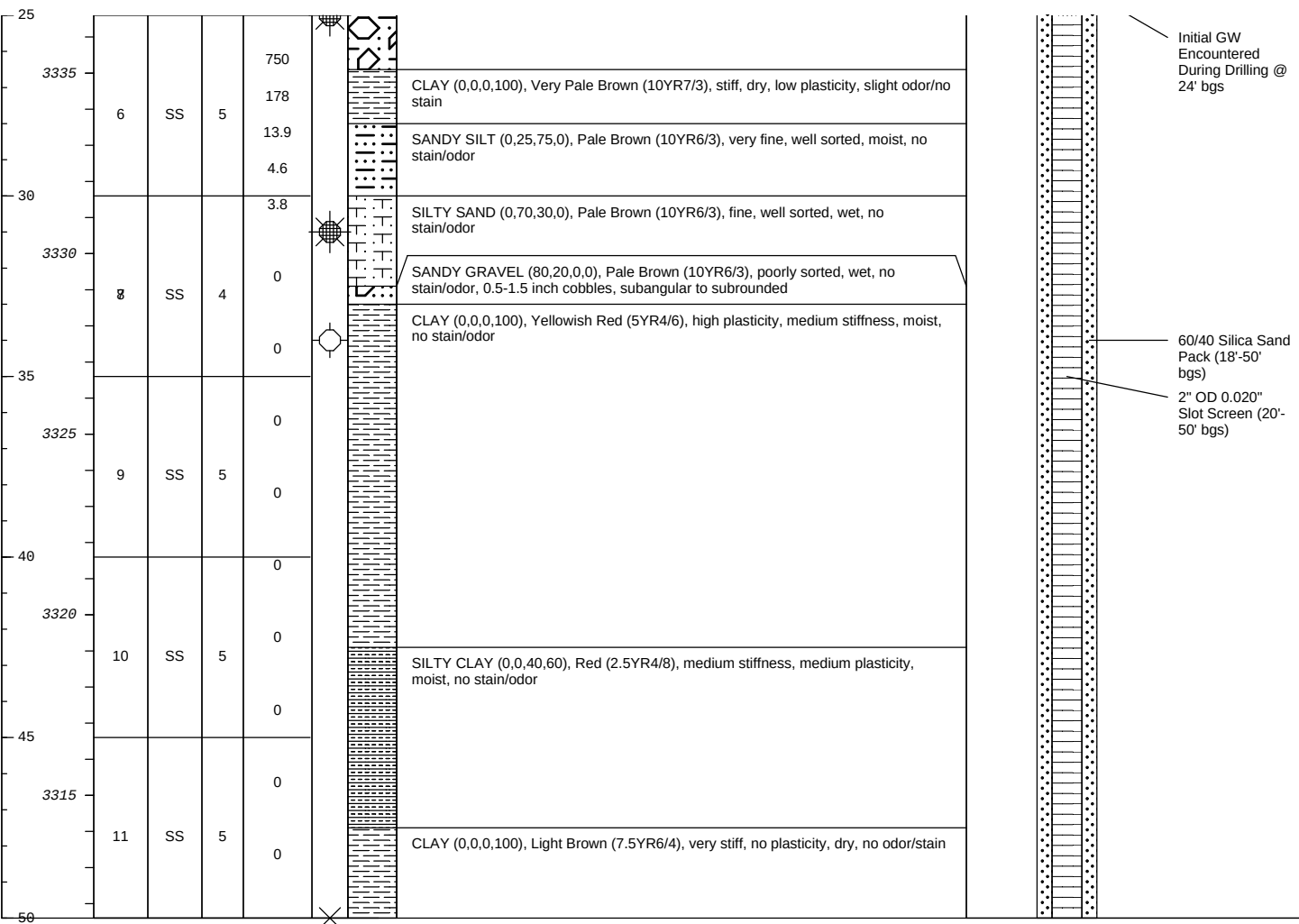
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



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Date Start/Finish: 2/7/2014 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 670331.35 Easting: 524029.44 Casing Elevation: 3369.86 Borehole Depth: 45' bgs Surface Elevation: 3370.2 Descriptions By: Eric Bergersen	Well/Boring ID: MW-130 Client:  Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

0	3370	1	HA	5	0			CLAYEY SILT (0,0,90,10), Dark Reddish Brown (5YR3/4), loose, dry, no stain/odor	
					0				
5	3365	2	SS	5	0			SILTY CLAY (0,0,25,75), Dark Reddish Brown (5YR3/4), slightly moist, medium stiffness, medium plasticity, no stain/odor	
					0				
10	3360	3	SS	5	0			White Mottling <35%	
					0				
15	3355	4	SS	5	8.2 9.5 6.3 2.8			SILTY CLAY (0,0,10,90), White (5YR8/1), dry, stiff, no plasticity, no stain/odor	
20	3350	5	SS	5	0			SILTY CLAY (0,0,20,80), Yellowish Red (5YR5/8), stiff, dry, no plasticity, no stain/odor	
					0				
25									

Flush Mount

2" OD PVC Casing

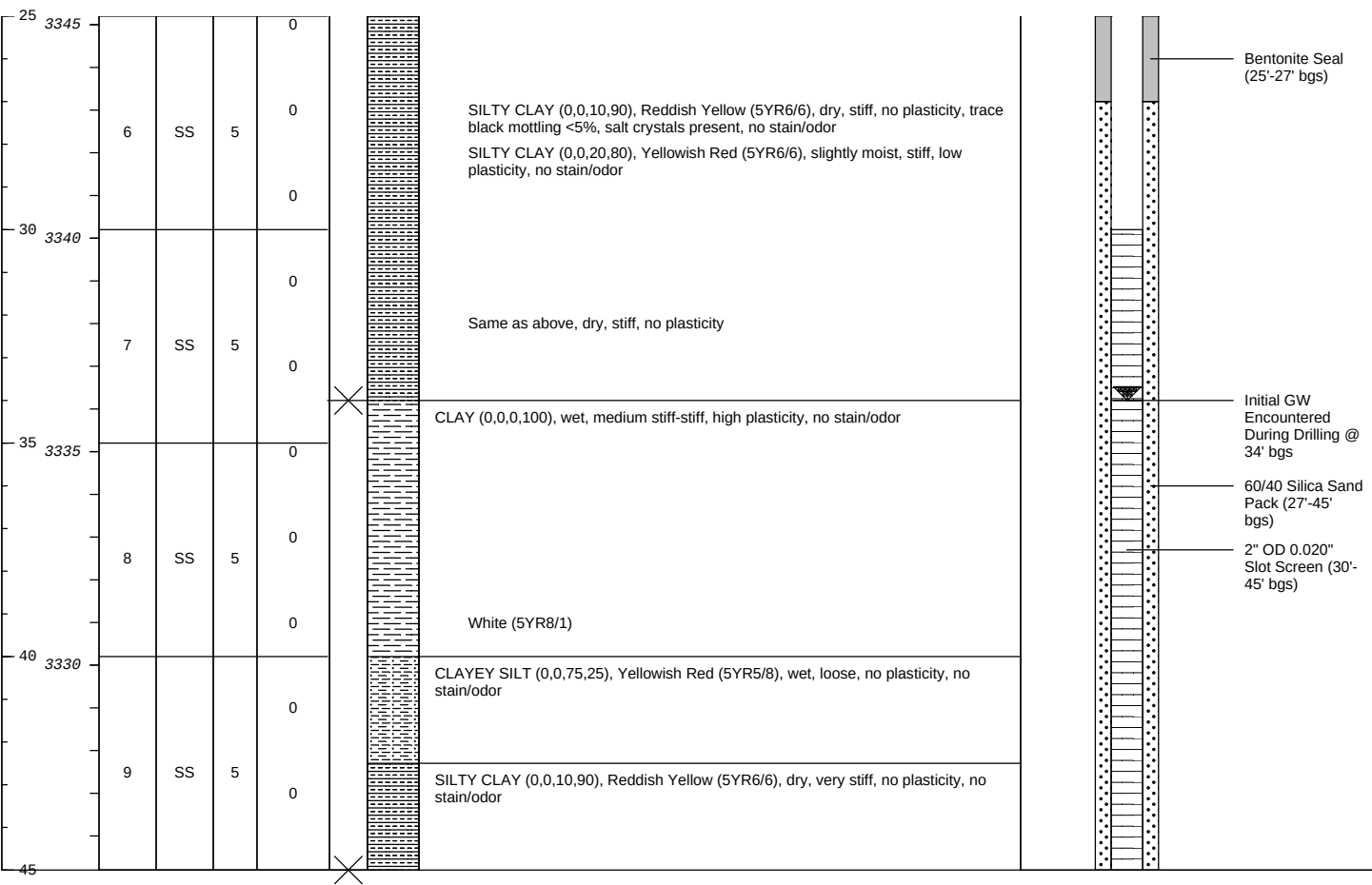
Grout (0-25' bgs)

GW Elevation During GW Sampling @ 22.42' bgs

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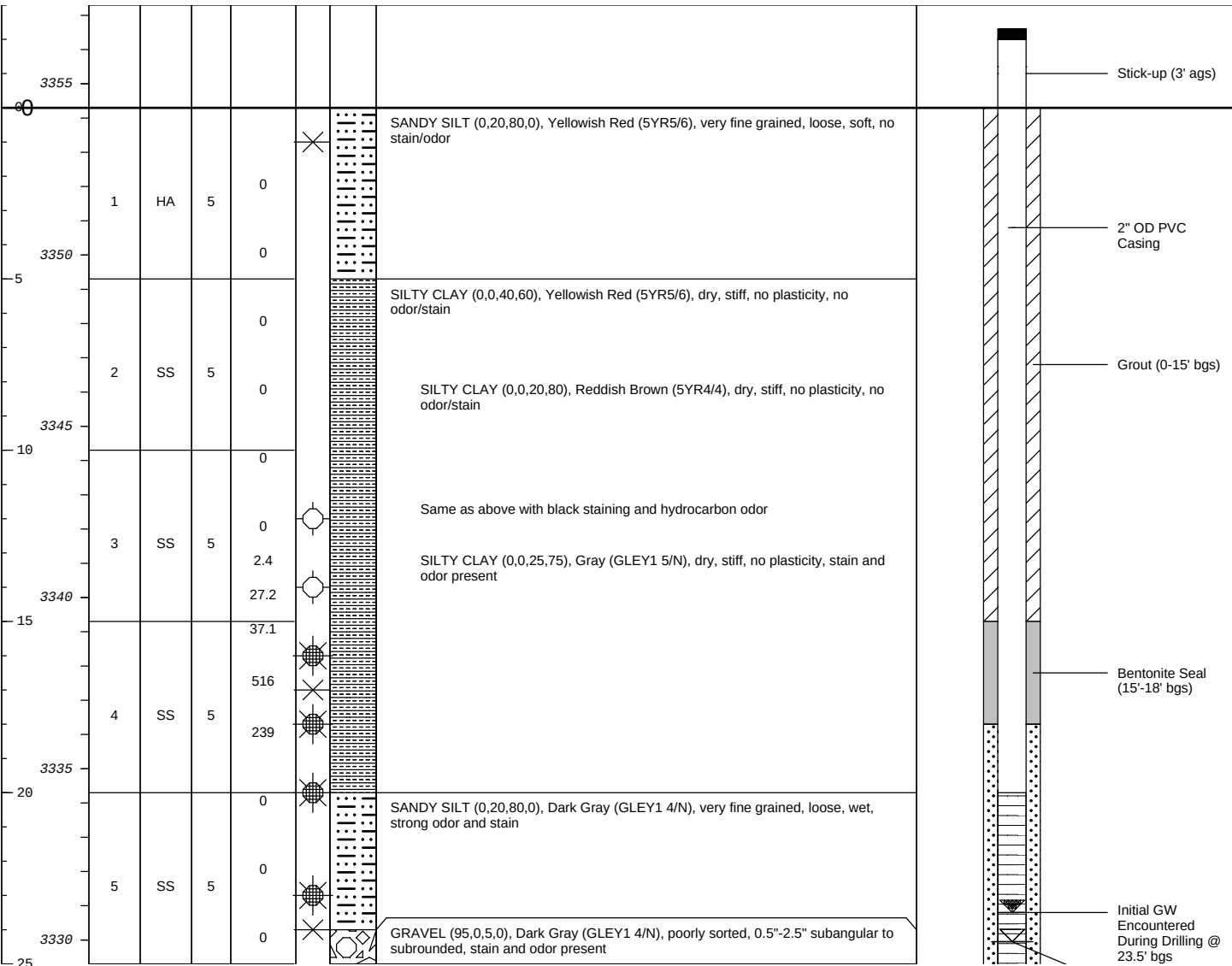
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



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Date Start/Finish: 1/23/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 670346.80 Easting: 526629.79 Casing Elevation: 3357.12 Borehole Depth: 50' bgs Surface Elevation: 3354.3 Descriptions By: Eric Bergersen	Well/Boring ID: MW-131 Client:  Location: Artesia, NM

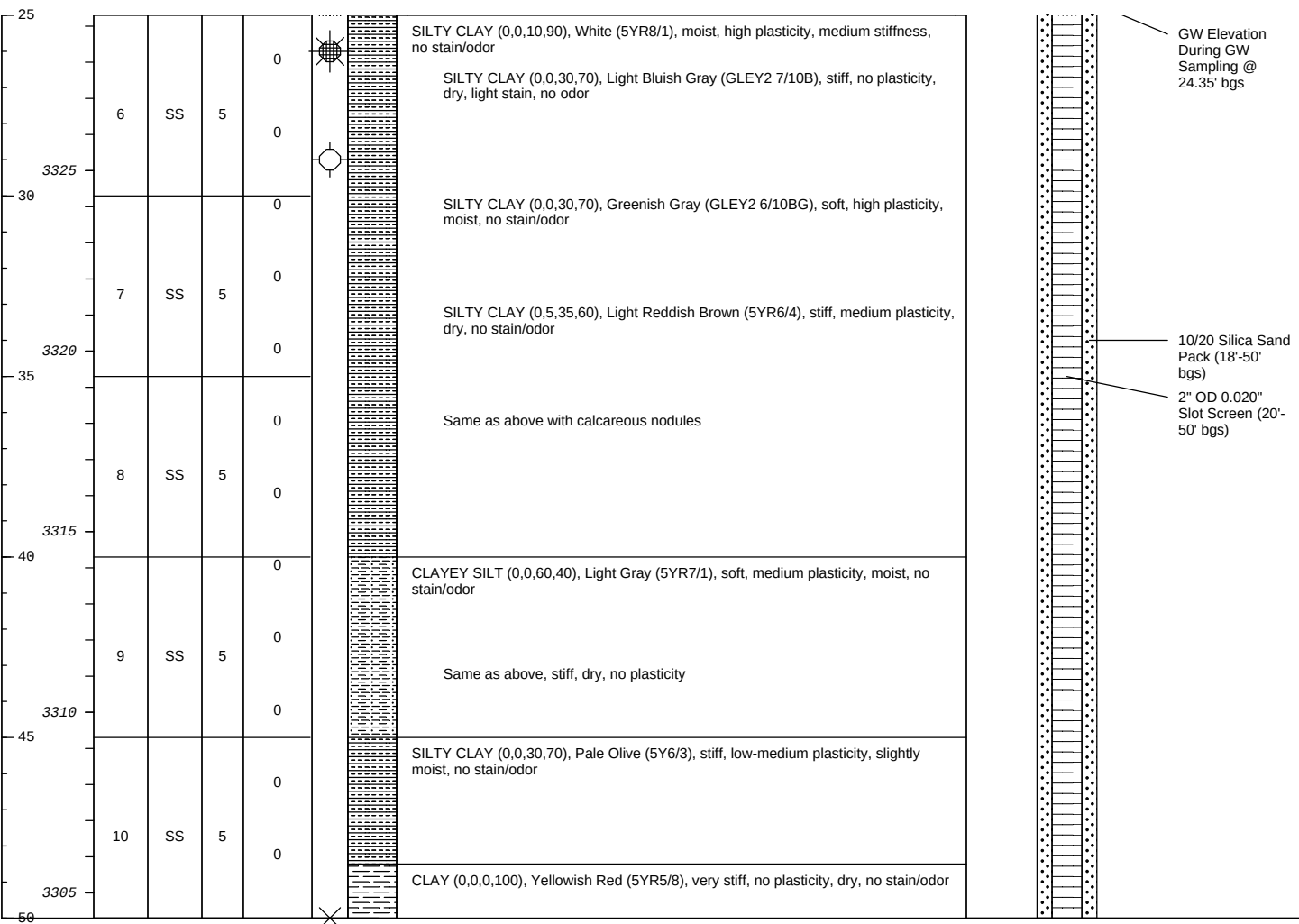
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay) Analytical Column: X= designates soil sample; circle shaded in= positive soil shake test, open circle= negative soil shake test

Date Start/Finish: 1/30/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 670346.80 Easting: 526629.79 Casing Elevation: 3357.12 Borehole Depth: 40' bgs Surface Elevation: 3354.3 Descriptions By: Eric Bergersen	Well/Boring ID: MW-132 Client:  Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

3355									
3350		1	HA	5	0	X		CLAYEY SILT (0,0,70,30), Reddish Brown (5YR4/4), dry, soft, no plasticity, no stain/odor	Stick-up (3' ags)
5					0				
		2	SS	5	0			SILTY CLAY (0,0,40,60), Pink (5YR7/4), dry, soft, no plasticity, no stain/odor	2" OD PVC Casing
3345					0			Same as above, White (5YR8/1)	Grout (0-15' bgs)
10					99.1			SILTY CLAY (0,0,20,80), Reddish Brown (5YR5/3), dry, stiff, no plasticity, less than 15% white mottling, no stain/odor	
		3	SS	5	46.4				
3340					12.3				
15					44.4			SILTY CLAY (0,0,20,80), Light Gray (GLE1 7/N), dry, stiff, no plasticity, stain and odor present	
					545			SILTY CLAY (0,0,25,75), Greenish Gray (GLE1 5/5GY), moist, low plasticity, medium stiffness, stain and odor present	
		4	SS	5	2408				Bentonite Seal (15'-18' bgs)
					2452				
3335					2505			SILTY CLAY (0,0,20,80), Dark Reddish Gray (5YR4/2), slightly moist, medium plasticity, medium stiffness, no stain, odor present	
20					1970				

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Date Start/Finish: 1/30/14
Drilling Company: National EWP
Drilling Method: Hollow Stem Auger
Sampling Method: Split Spoon
Rig Type: CME 85
Auger Size: 8 1/4"

Northing: 670346.80
Easting: 526629.79
Casing Elevation: 3357.12
Borehole Depth: 40' bgs
Surface Elevation: 3354.3
Descriptions By: Eric Bergersen

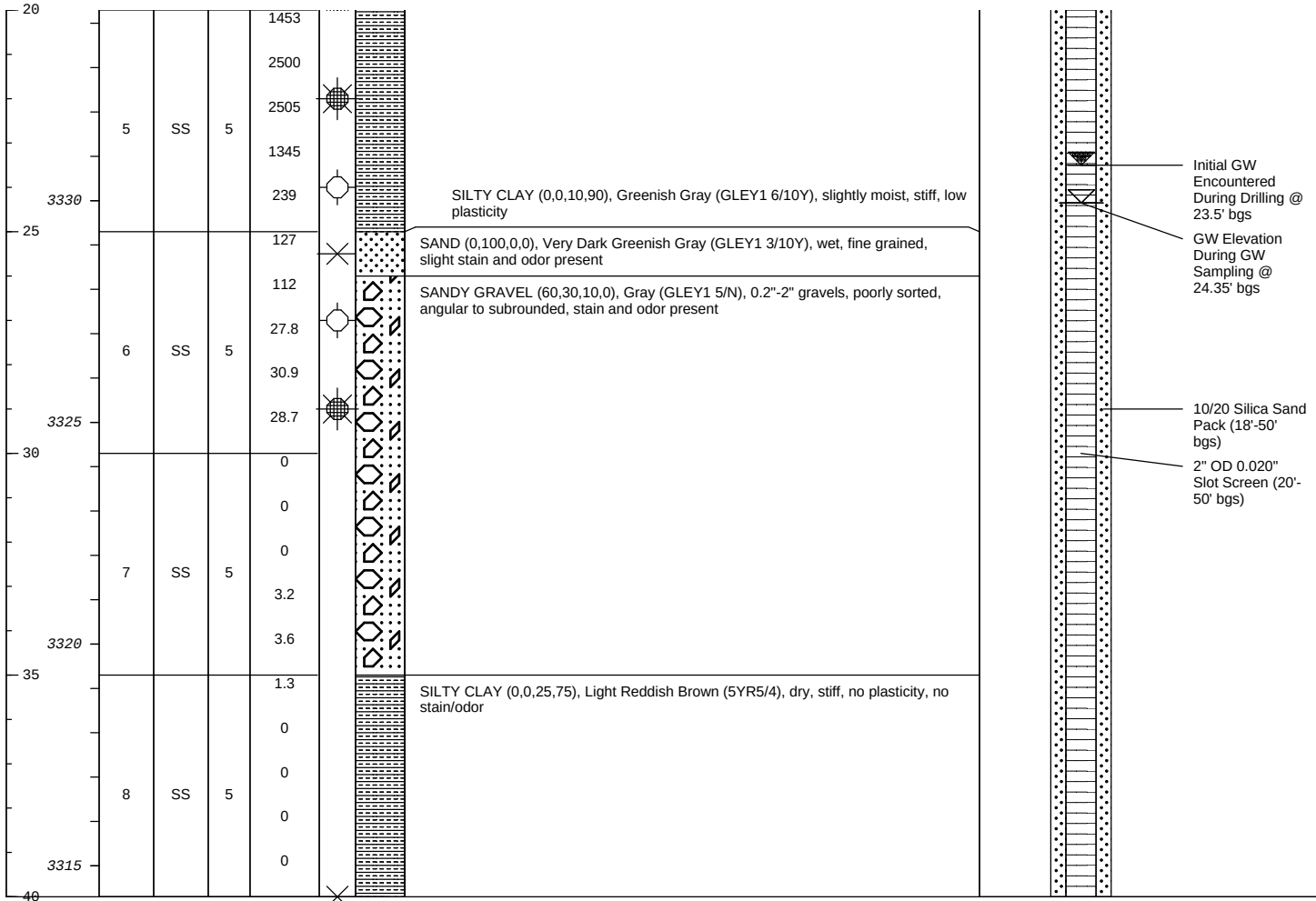
Well/Boring ID: MW-132

Client:



Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface

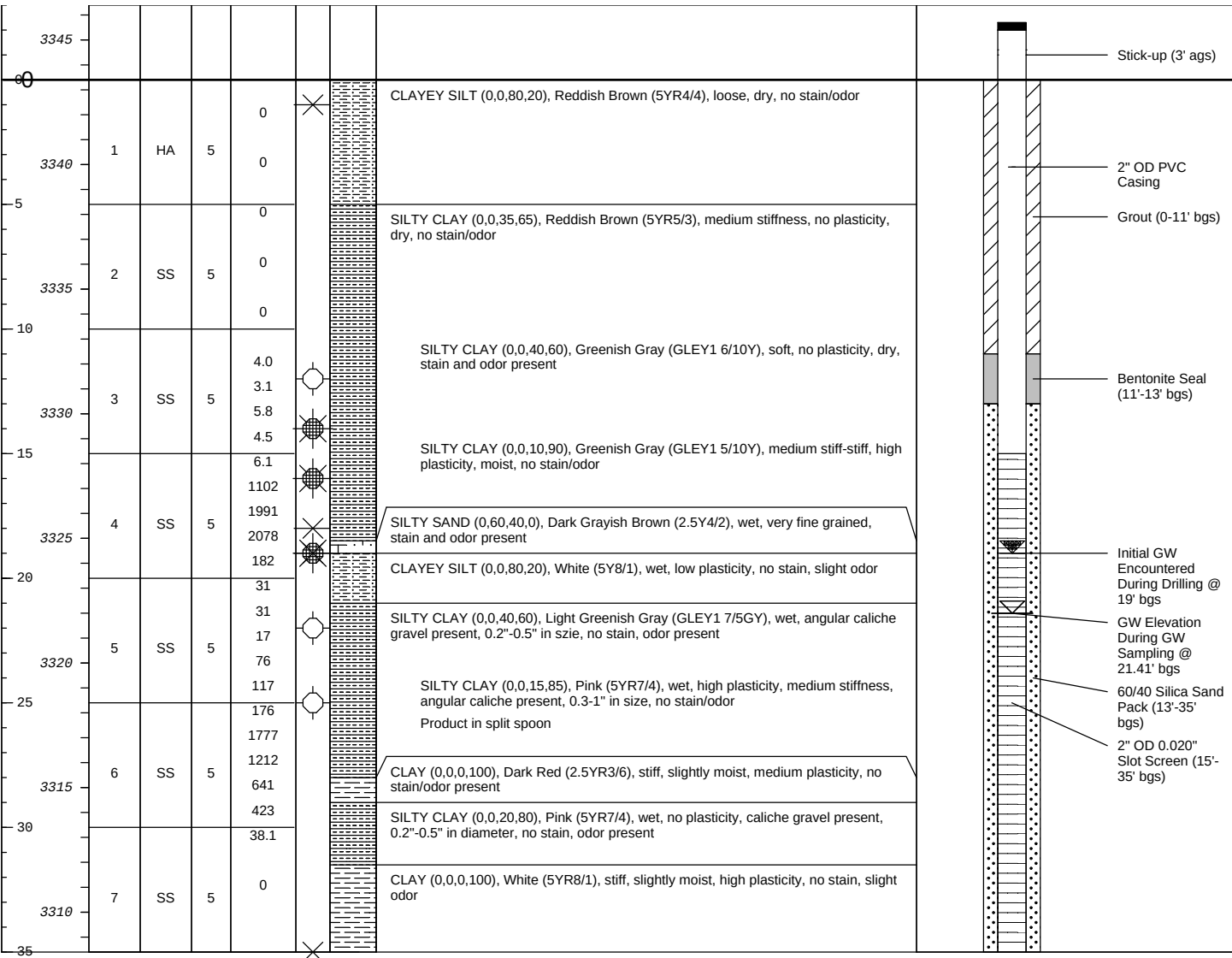
Lithology described as a percentage (Gravel, Sand, Silt, Clay)

Analytical Column: X= designates soil sample; circle shaded in= positive soil shake test, open circle= negative soil shake test



Date Start/Finish: 2/4/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 672005.89 Easting: 527446.73 Casing Elevation: 3349.45 Borehole Depth: 35' bgs Surface Elevation: 3343.4 Descriptions By: Eric Bergersen	Well/Boring ID: MW-133 Client:  Location: Artesia, NM

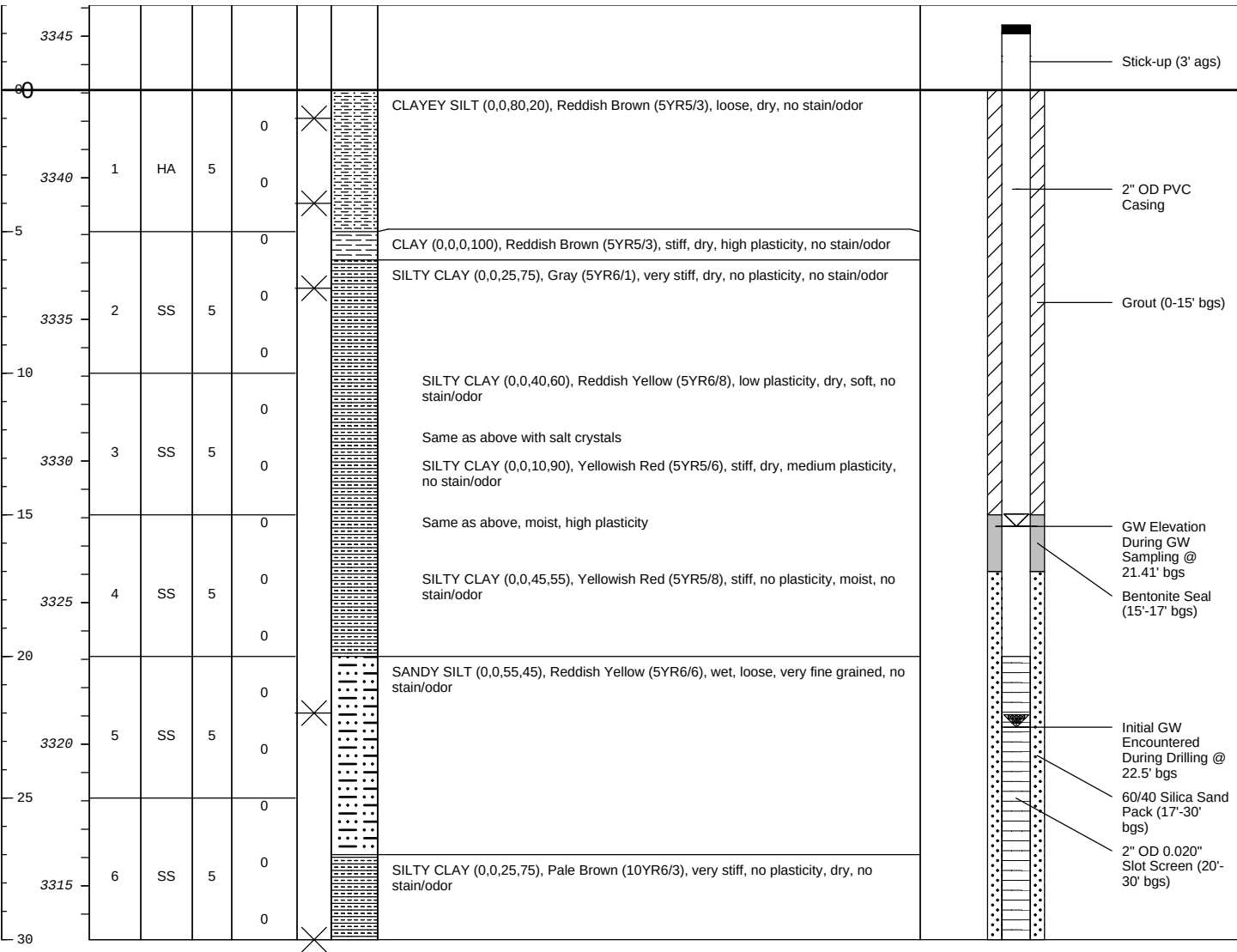
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



 Infrastructure · Water · Environment · Buildings	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay) Analytical Column: X= designates soil sample; circle shaded in= positive soil shake test, open circle= negative soil shake test

Date Start/Finish: 2/4/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 673271.80 Easting: 527263.99 Casing Elevation: 3346.23 Borehole Depth: 30' bgs Surface Elevation: 3343.1 Descriptions By: Eric Bergersen	Well/Boring ID: MW-134 Client:  Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay)

Date Start/Finish: 2/11/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 671758.72 Easting: 530211.23 Casing Elevation: 3337.65 Borehole Depth: 65' bgs Surface Elevation: 3338.0 Descriptions By: Eric Bergersen	Well/Boring ID: MW-135 Client:  Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

0								Road Base, caliche & gravel	
3335	1	HA	5	0				CLAYEY SILT (0,0,70,30), Yellowish Red (5YR5/6), loose, dry, no stain/odor	
5				0					
3330	2	SS	5	0				SILTY CLAY (0,0,20,80), Reddish Brown (5YR4/4), stiff, no plasticity, dry, no stain/odor	
10				0					
3325	3	SS	5	0				SILTY CLAY (0,0,15,85), Pink (5YR7/3), dry, no plasticity, dry, no stain/odor	
15				0				SILTY CLAY (0,0,10,90), White (5YR8/1), dry, no plasticity, stiff, no stain/odor	
3320	4	SS	5	0				SILTY GRAVEL (80,0,20,0), White (5YR8/1), angular to subrounded, poorly sorted, 0.2"-1" in size, dry, no stain/odor	
20				0				GRAVEL becomes subrounded ~1" in diameter	
3315	5	SS	5	0				SANDY CLAY (0.25,0,75), Pale Brown (10YR6/3), orange mottling <20% present, slightly moist, medium plasticity, no stain/odor	
25									

Flush Mount

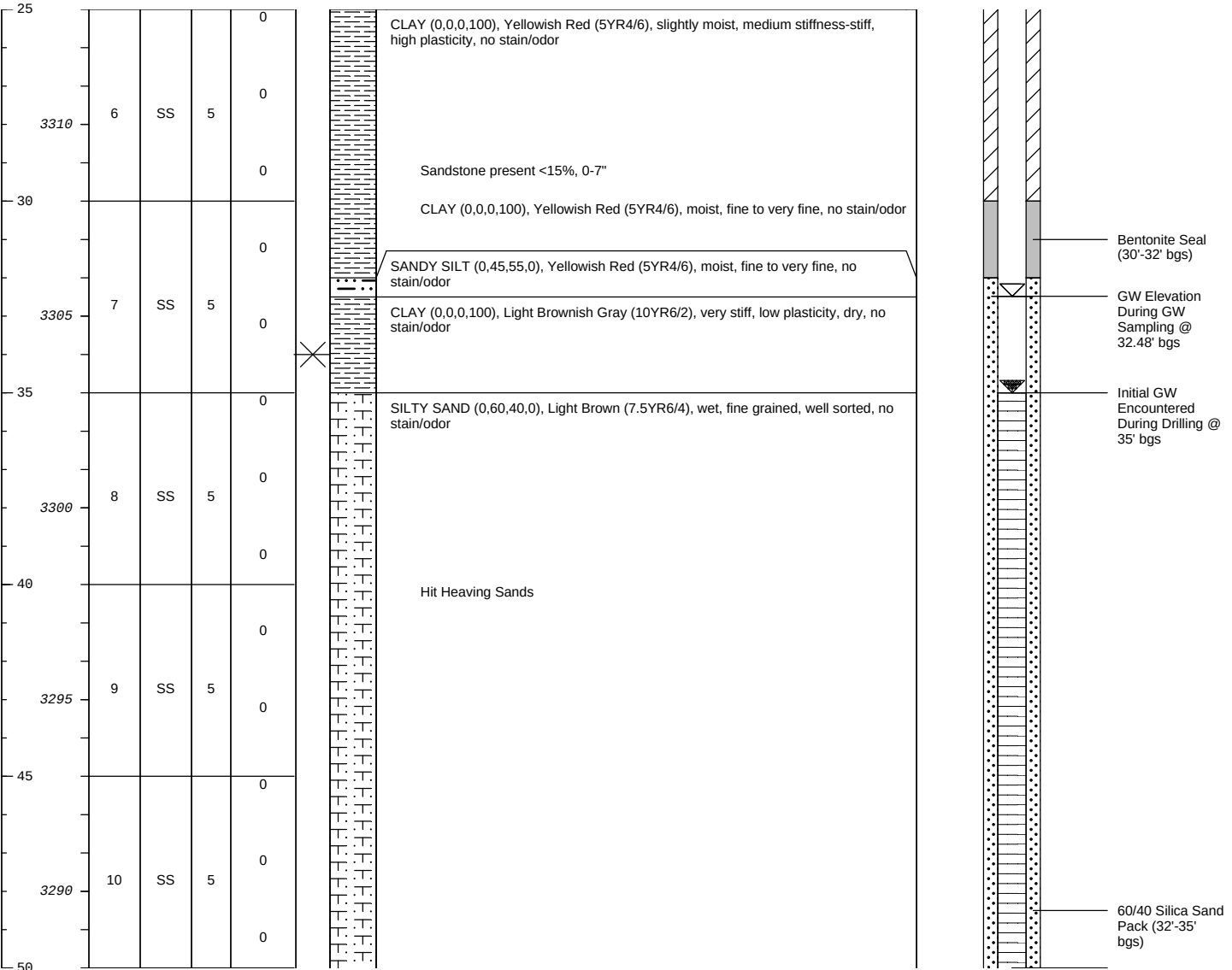
2" OD PVC Casing

Grout (0-30' bgs)

	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay)

Date Start/Finish: 2/11/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 671758.72 Easting: 530211.23 Casing Elevation: 3337.65 Borehole Depth: 65' bgs Surface Elevation: 3338.0 Descriptions By: Eric Bergersen	Well/Boring ID: MW-135 Client:  Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay)

Date Start/Finish: 2/11/14 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME 85 Auger Size: 8 1/4"	Northing: 671758.72 Easting: 530211.23 Casing Elevation: 3337.65 Borehole Depth: 65' bgs Surface Elevation: 3338.0 Descriptions By: Eric Bergersen	Well/Boring ID: MW-135 Client:  Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

50					0				
3285	11	SS	5		0				
55					0				
3280	12	SS	5		0				
60					0				
3275	13	SS	5		0				
65					0				

SILTY SAND (0,80,20,0), Light Brownish Gray, fine-medium grained, well sorted, loose, wet, no stain/odor

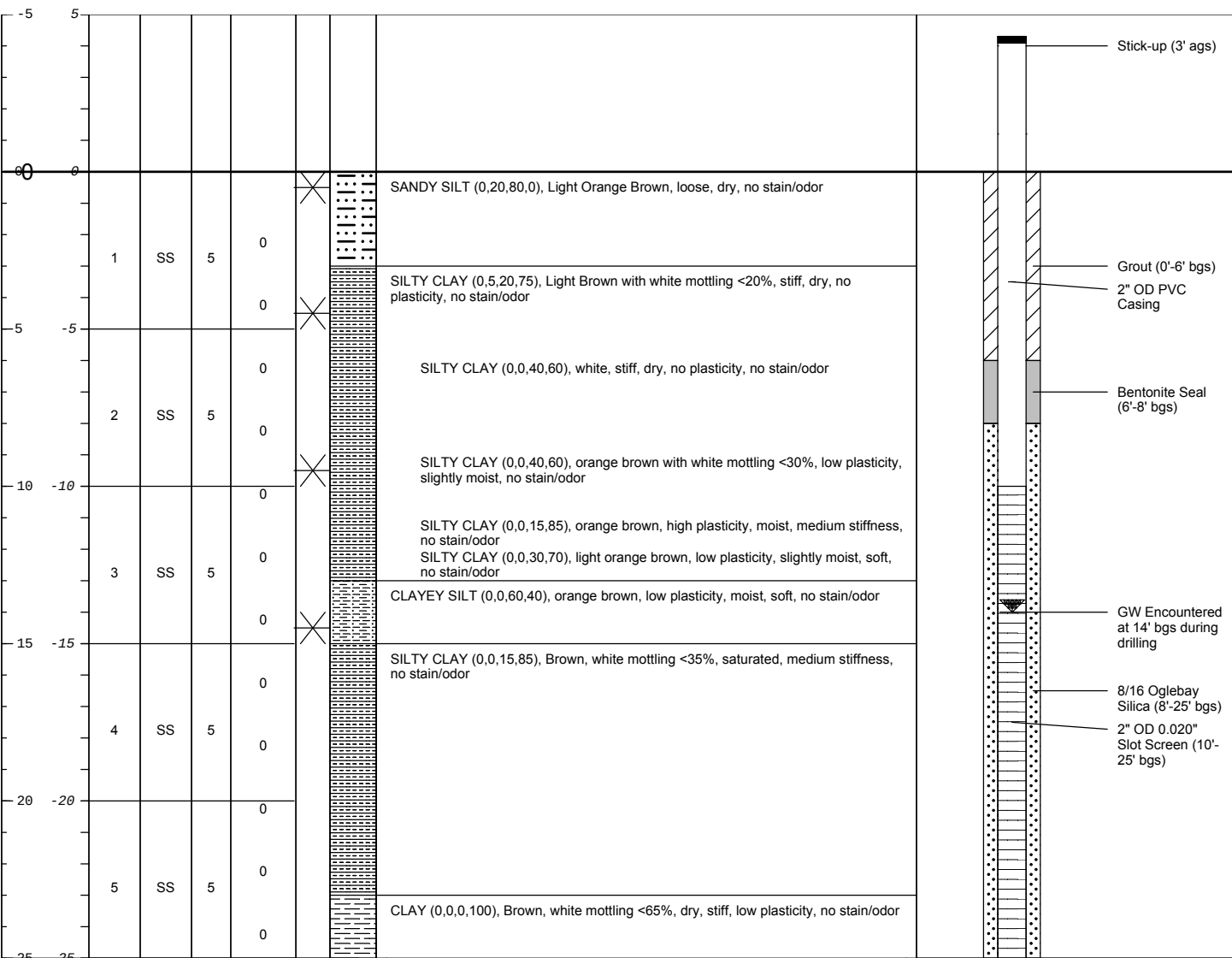
Trace orange mottling <15% from 61'-63' bgs

2" OD 0.020" Slot Screen (35'-65' bgs)

	Remarks: bgs = below ground surface; amsl = above mean sea level; HA = Hand Auger; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Lithology described as a percentage (Gravel, Sand, Silt, Clay)

Date Start/Finish: 7/28/2014 Drilling Company: National EWP Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME-85 Auger Size: 8 1/4"	Northing: -- Easting: -- Casing Elevation: -- Borehole Depth: 25' bgs Surface Elevation: -- Descriptions By: Eric Bergersen	Well/Boring ID: MW-136 Client:  Location: Artesia, NM

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction



	Remarks: bgs = below ground surface; amsl = above mean sea level; CB = Core Barrel; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Well completed as a stick up well with 4 bollards

Date Start/Finish: 9/2/2014 Drilling Company: National EWP Driller's Name: Matt Cain Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME-85	Northing: -- Easting: -- Casing Elevation: -- Borehole Depth: 39.5' bgs Surface Elevation: -- Descriptions By: Ben McKenna	Well/Boring ID: UG-4 Client: Navajo Refining Company Location: Navajo Refinery Artesia, New Mexico

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

		1	SS	5	0			SANDY SILT (0,25,75,0), Light Orange Brown, loose, dry, no stain/odor, very fine grained	
-5	-5				0				
		2	SS	5	0			SILTY CLAY (0,0,30,70), Light Brown, salt precipitation present, medium to low plasticity, stiff, no stain/odor	
-10	-10				0				
		3	SS	5	0			SILTY CLAY (0,0,15,85), Light Brown with white mottling, stiff, dry, no plasticity, no stain/odor	
-15	-15				0				
		4	SS	5	0			CLAY (0,0,0,100), Reddish Brown, wet, stiff, high plasticity, no stain/odor	
-20	-20				0				
		5	SS	5	0			Same as above, dry, low plasticity	
-25	-25				0				
								SILTY CLAY (0,0,20,80), Light Brown (7.5YR 6/4), dry, stiff, low plasticity, no odor.	

2" OD PVC Casing

Grout (0'-15.5' bgs)

Bentonite Seal (15.5'-17.5' bgs)

	Remarks: bgs = below ground surface; amsl = above mean sea level; CB = Core Barrel; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Well completed as a flush mount

Date Start/Finish: 9/2/2014 Drilling Company: National EWP Driller's Name: Matt Cain Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Rig Type: CME-85	Northing: -- Easting: -- Casing Elevation: -- Borehole Depth: 39.5' bgs Surface Elevation: -- Descriptions By: Ben McKenna	Well/Boring ID: UG-4 Client: Navajo Refining Company Location: Navajo Refinery Artesia, New Mexico

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction

		6	SS	5	0				
					0				
30	-30				0			CLAY (0,0,0,100), Light Brown (7.5YR 6/4), firm, dry, low plasticity, no odor.	
		7	SS	5	0			SILTY CLAY with Gravel (10,0,20,70), Light Brownish Red (5YR 6/4), dry, firm, low plasticity, no odor, nodules of caliche.	
					0				
35	-35				0			SILTY CLAY (0,0,20,80), Light Brownish Red (5YR 6/4), moist, firm, low-medium plasticity, no odor.	
		8	SS	5	0			SILTY SAND (0.70,20,10), Light Brownish Red (5YR 6/4), wet, loose, medium-fine grained, mid-sorted.	
					0			CLAY (0,0,0,100), Light Brownish Red (5YR 6/4), stiff, dry, low plasticity, no odor.	8/16 Oglebay Silica (17.5'-39.5' bgs) 2" OD 0.020" Slot Screen (19.5'-39.5' bgs)
40	-40							End of boring at 39.5' bgs.	

	Remarks: bgs = below ground surface; amsl = above mean sea level; CB = Core Barrel; ppm = parts per million; NA = not applicable/available; SS = split spoon, ags = above ground surface Well completed as a flush mount

Appendix B

2014 Rainfall Records

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Record of Climatological Observations
These data are quality controlled and may not be identical to the original observations.

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	1	1	58	19	30	0.00		0.0		0		0.00	5	38	35			
	2014	1	2	68	20	20	0.00		0.0		0		0.00	5	38	35			
	2014	1	3	50	18	18	0.00		0.0		0		0.00	5	38	36			
	2014	1	4	63	18	34	0.00		0.0		0		0.00	5	38	36			
	2014	1	5	68	20	20	0.00		0.0		0		0.00	5	38	36			
	2014	1	6	41	8	8	0.00		0.0		0		0.00	5	39	34			
	2014	1	7	32	8	9	0.00		0.0		0		0.00	5	35	33			
	2014	1	8	49	9	28	0.00		0.0		0		0.00	5	35	33			
	2014	1	9	65	18	18	0.00		0.0		0		0.00	5	35	33			
	2014	1	10	62	18	42	0.00		0.0		0		0.00	5	38	36			
	2014	1	11	69	25	25	0.00		0.0		0		0.25	5	38	36			
	2014	1	12	72	25	38	0.00		0.0		0		0.15	5	39	37			
	2014	1	13	72	24	27	0.00		0.0		0		0.25	5	40	39			
	2014	1	14	65	24	24	0.00		0.0		0		0.11	5	42	39			
	2014	1	15	65	17	17	0.00		0.0		0		0.00	5	41	38			
	2014	1	16	63	16	24	0.00		0.0		0		0.00	5	40	38			
	2014	1	17	62	21	22	0.00		0.0		0		0.00	5	40	38			
	2014	1	18	56	18	22	0.00		0.0		0		0.00	5	40	38			
	2014	1	19	64	19	24	0.00		0.0		0		0.00	5	40	39			
	2014	1	20	69	24	30	0.00		0.0		0		0.00	5	40	39			
	2014	1	21	71	19	22	0.00		0.0		0		0.00	5	42	38			
	2014	1	22	67	22	28	0.00		0.0		0		0.14	5	40	38			
	2014	1	23	57	24	26	0.00		0.0		0		0.10	5	41	38			
	2014	1	24	36	9	11	0.00		0.0		0		0.00	5	41	35			
	2014	1	25	50	10	24	0.00		0.0		0		0.00	5	41	36			
	2014	1	26	61	24	30	0.00		0.0		0		0.00	5	41	36			
	2014	1	27	69	28	28	0.00		0.0		0		0.00	5	40	39			
	2014	1	28	39	11	12	0.00		0.0		0		0.00	5	40	35			
	2014	1	29	33	7	9	0.00		0.0		0		0.00	5	39	33			
	2014	1	30	52	9	52	0.00		0.0		0		0.00	5	37	34			
	2014	1	31	77	43	50	0.00		0.0		0		0.36	5	40	39			
			Summary	58.9	18.5		0.00		0.0										

The "*" flags in Preliminary indicate the data have not completed processing and qualitycontrol and may not be identical to the original observation
Empty, or blank, cells indicate that a data observation was not reported.
*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown
"s" This data value failed one of NCDC's quality control tests.
"T" values in the Precipitation category above indicate a TRACE value was recorded.
"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.
Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

12/10/2014

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	Snow, ice pellets, hail, ice on ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	2	1	72	40	47	0.00						0.22	5	40	39			
	2014	2	2	68	29	30	0.21						0.12	5	40	38			
	2014	2	3	35	29	30	0.00						0.08	5	40	37			
	2014	2	4	32	29	29	0.00						0.00	5	41	36			
	2014	2	5	55	25	26	0.00						0.00	5	38	37			
	2014	2	6	27	17	17	0.00						0.00	5	39	37			
	2014	2	7	30	17	22	0.00						0.00	5	39	34			
	2014	2	8	54	22	28	0.00						0.00	5	40	35			
	2014	2	9	69	27	37	0.00						0.00	5	39	37			
	2014	2	10	77	30	30	0.00						0.21	5	40	39			
	2014	2	11	35	26	27	0.00						0.03	5	41	37			
	2014	2	12	42	17	19	0.00						0.00	5	38	36			
	2014	2	13	59	17	38	0.00						0.00	5	39	37			
	2014	2	14	74	37	39	0.00						0.17	5	39	37			
	2014	2	15	80	31	31	0.00						0.21	5	43	42			
	2014	2	16	86	31	41	0.00						0.15	5	46	45			
	2014	2	17	81	41	48	0.00						0.18	5	46	45			
	2014	2	18	72	31	33	0.00						0.19	5	47	45			
	2014	2	19	80	33	39	0.00						0.21	5	49	46			
	2014	2	20	80	39	47	0.00						0.34	5	48	46			
	2014	2	21	62	23	25	0.00						0.29	5	48	45			
	2014	2	22	69	25	33	0.00						0.12	5	47	45			
	2014	2	23	79	33	37	0.00						0.22	5	48	46			
	2014	2	24	76	37	41	0.00						0.16	5	48	46			
	2014	2	25	74	36	38	0.00						0.17	5	49	48			
	2014	2	26	56	25	25	0.00						0.19	5	48	46			
	2014	2	27	45	24	33	0.00						0.14	5	48	46			
	2014	2	28	75	33	43	0.00						0.27	5	48	46			
			Summary	62.3	28.7		0.21		0										

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*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown
"s" This data value failed one of NCDC's quality control tests.
"T" values in the Precipitation category above indicate a TRACE value was recorded.
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Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	3	1	79	43	51	0.00		0.0		0		0.27	5	50	48			
	2014	3	2	81	43	43	0.23		0.0		0		0.48	5	50	48			
	2014	3	3	68	24	24	0.00		0.0		0		0.00	5	50	49			
	2014	3	4	44	20	24	0.00		0.0		0		0.00	5	50	43			
	2014	3	5	65	24	52	0.00		0.0		0		0.13	5	50	45			
	2014	3	6	62	25	28	0.00		0.0		0		0.33	5	50	45			
	2014	3	7	72	28	42	0.00		0.0		0		0.16	5	50	46			
	2014	3	8	81	38	40	0.00		0.0		0		0.28	5	50	49			
	2014	3	9	54	29	30	0.00		0.0		0		0.15	5	50	49			
	2014	3	10	61	26	26	0.00		0.0		0		0.13	5	50	45			
	2014	3	11	78	24	34	0.00		0.0		0		0.34	5	51	49			
	2014	3	12	81	34	34	0.00		0.0		0		0.25	5	53	50			
	2014	3	13	81	26	26	0.00		0.0		0		0.15	5	52	48			
	2014	3	14	67	25	34	0.00		0.0		0		0.29	5	53	49			
	2014	3	15	74	33	42	0.00		0.0		0		0.29	5	52	47			
	2014	3	16	73	38	39	0.00		0.0		0		0.28	5	52	50			
	2014	3	17	59	31	31	0.00		0.0		0		0.19	5	50	49			
	2014	3	18	80	31	47	0.00		0.0		0		0.35	5	52	50			
	2014	3	19	78	28	28	0.00		0.0		0		0.41	5	52	50			
	2014	3	20	60	26	27	0.00		0.0		0		0.18	5	52	49			
	2014	3	21	80	27	44	0.00		0.0		0		0.21	5	52	49			
	2014	3	22	82	37	38	0.00		0.0		0		0.42	5	52	50			
	2014	3	23	69	27	28	0.00		0.0		0		0.22						
	2014	3	24	69	26	28	0.00		0.0		0		0.18	5	52	49			
	2014	3	25	77	28	28	0.00		0.0		0		0.11	5	52	49			
	2014	3	26	61	28	45	0.19		0.0		0		0.20	5	52	50			
	2014	3	27	76	44	56	0.00		0.0		0		0.39	5	52	50			
	2014	3	28	77	40	44	0.00		0.0		0		0.44	5	53	51			
	2014	3	29	75	35	40	0.00		0.0		0		0.28	5	53	51			
	2014	3	30	72	36	42	0.00		0.0		0		0.28	5	54	51			
	2014	3	31	86	42	51	0.00		0.0		0		0.36	5	55	53			
Summary				71.7	31.2		0.42		0.0										

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*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown
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Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	Snow, ice pellets, hail, ice on ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	4	1	83	42	51	0.00						0.43	5	55	52			
	2014	4	2	81	46	51	0.00						0.37	5	56	52			
	2014	4	3	83	51	56	0.00						0.56	5	56	55			
	2014	4	4	69	28	28	0.00						0.39	5	56	53			
	2014	4	5	64	28	41	0.00						0.22	5	56	54			
	2014	4	6	74	39	41	0.00						0.23	5	56	54			
	2014	4	7	76	37	37	0.00						0.21	5	55	52			
	2014	4	8	67	32	32	0.00						0.22	5	54	52			
	2014	4	9	76	32	36	0.00						0.26	5	55	53			
	2014	4	10	90	36	47	0.00						0.43	5	57	55			
	2014	4	11	90	43	43	0.00						0.37	5	58	55			
	2014	4	12	89	42	50	0.00						0.26	5	58	55			
	2014	4	13	85	50	59	0.00						0.36	5	59	56			
	2014	4	14	85	33	33	0.00						0.35	5	59	54			
	2014	4	15	51	27	29	0.00						0.06	5	60	55			
	2014	4	16	73	29	40	0.00						0.37	5	55	53			
	2014	4	17	87	39	48	0.00						0.45	5	56	55			
	2014	4	18	73	47	48	0.00						0.27	5	56	55			
	2014	4	19	75	47	54	0.10						0.24	5	57	56			
	2014	4	20	66	45	50	0.71						0.09	5	57	55			
	2014	4	21	78	46	48	0.00						0.29	5	58	55			
	2014	4	22	85	48	53	0.00						0.17	5	59	57			
	2014	4	23	86	53	63	0.00						0.47	5	61	60			
	2014	4	24	89	46	51	0.00						0.35	5	60	59			
	2014	4	25	80	43	45	0.00						0.14	5	62	58			
	2014	4	26	90	44	48	0.00						0.49	5	62	58			
	2014	4	27	88	46	54	0.00						0.76	5	63	60			
	2014	4	28	75	42	46	0.00						0.45	5	62	59			
	2014	4	29	79	43	47	0.00						0.44	5	61	59			
	2014	4	30	68	40	45	0.00						0.29	5	61	59			
Summary				78.5	40.8		0.81		0										

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Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	Snow, ice pellets, hail, ice on ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	5	1	66	45	47	0.00						0.21	5	61	57			
	2014	5	2	67	37	42	0.00						0.23	5	61	57			
	2014	5	3	78	41	48	0.00						0.23	5	61	58			
	2014	5	4	89	47	53	0.00						0.38	5	62	59			
	2014	5	5	95	50	54	0.00						0.45	5	62	59			
	2014	5	6	95	53	64	0.00						0.49	5	62	59			
	2014	5	7	89	56	62	0.00						0.63	5	64	60			
	2014	5	8	89	49	53	0.00						0.64	5	64	61			
	2014	5	9	80	43	45	0.00						0.43	5	64	61			
	2014	5	10	87	45	57	0.00						0.43	5	60	59			
	2014	5	11	93	57	65	0.00						0.36	5	61	60			
	2014	5	12	92	48	49	0.00							5	61	60			
	2014	5	13	75	44	46	0.00						0.54	5	61	58			
	2014	5	14	75	35	37	0.00						0.27	5	58	57			
	2014	5	15	70	37	44	0.00						0.24	5	59	56			
	2014	5	16	83	44	52	0.00						0.33	5	60	59			
	2014	5	17	92	52	59	0.00						0.39	5	62	60			
	2014	5	18	88	52	60	0.00						0.32	5	64	61			
	2014	5	19	99	51	59	0.00						0.41	5	65	62			
	2014	5	20	96	52	57	0.00						0.47	5	65	62			
	2014	5	21	97	56	60	0.00						0.49	5	65	63			
	2014	5	22	93	58	63	0.00						0.31	5	65	64			
	2014	5	23	84	60	61	0.11						0.11	5	65	63			
	2014	5	24	84	58	61	0.30						0.32	5	66	64			
	2014	5	25	77	56	58	0.44						0.16	5	66	62			
	2014	5	26	82	58	60	0.00						0.31	5	65	63			
	2014	5	27	81	51	58	0.00						0.24	5	65	62			
	2014	5	28	92	57	62	0.00						0.30	5	67	65			
	2014	5	29	90	59	63	0.00						0.28	5	67	65			
	2014	5	30	91	62	64	0.00						0.31	5	66	65			
	2014	5	31	92	57	61	0.00						0.33	5	68	66			
Summary				85.8	50.6		0.85		0										

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Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	Snow, ice pellets, hail, ice on ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	6	1	98	61	74	0.00						0.32	5	69	68			
	2014	6	2	105	60	65	0.00						0.57	5	70	68			
	2014	6	3	101	65	70	0.00						0.39	5	70	68			
	2014	6	4	101	66	70	0.00						0.56	5	71	70			
	2014	6	5	106	64	68	0.00						0.51	5	72	70			
	2014	6	6	106	67	71	0.00						0.37	5	71	70			
	2014	6	7	102	66	70	0.00						0.46	5	71	70			
	2014	6	8	95	67	70	0.00						0.39	5	71	70			
	2014	6	9	82	59	62	0.55						0.47	5	73	67			
	2014	6	10	83	51	57	0.00						0.27	5	73	65			
	2014	6	11	90	51	62	0.00						0.37	5	70	66			
	2014	6	12	104	62	71	0.00						0.41	5	71	68			
	2014	6	13	92	69	69	0.00						0.33	5	73	69			
	2014	6	14	89	63	66	0.17						0.24	5	71	69			
	2014	6	15	101	59	70	0.00						0.49	5	71	69			
	2014	6	16	102	70	76	0.00						0.40	5	70	70			
	2014	6	17	103	67	70	0.00						0.52	5	72	70			
	2014	6	18	100	69	72	0.00						0.42	5	73	71			
	2014	6	19	99	67	68	0.00						0.34	5	73	71			
	2014	6	20	99	67	70	0.00						0.46	5	73	71			
	2014	6	21	87	68	69	0.00						0.23	5	73	71			
	2014	6	22	89	66	69	0.00						0.34	5	73	71			
	2014	6	23	98	64	67	0.00						0.36	5	72	72			
	2014	6	24	98	59	67	0.57						0.41	5	72	70			
	2014	6	25	97	60	69	0.00						0.33	5	73	70			
	2014	6	26	90	59	63	0.00						0.27	5	73	69			
	2014	6	27	102	63	72	0.00						0.49	5	73	72			
	2014	6	28	103	63	70	0.00						0.72	5	73	72			
	2014	6	29	103	68	71	0.00						0.45	5	74	73			
	2014	6	30	106	69	72	0.00						0.51	5	74	73			
Summary				97.7	63.6		1.29		0										

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Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	Snow, ice pellets, hail, ice on ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	7	1	105	67	69	0.00						0.43	5	75	74			
	2014	7	2	93	64	64	0.05						0.35	5	75	74			
	2014	7	3	85	62	72	0.01						0.27	5	75	72			
	2014	7	4	90	66	67	0.00						0.34	5	76	74			
	2014	7	5	94	66	69	0.00						0.56	5	75	74			
	2014	7	6	96	69	73	0.03						0.47	5	75	74			
	2014	7	7	84	60	63	0.00						0.19	5	75	72			
	2014	7	8	95	63	69	0.00						0.31	5	75	73			
	2014	7	9	97	67	69	0.00						0.36	5	75	74			
	2014	7	10	96	66	67	0.00						0.59	5	76	75			
	2014	7	11	94	64	66	0.00						0.45	5	75	74			
	2014	7	12	92	66	69	0.00						0.41	5	75	75			
	2014	7	13	93	67	70	0.00						0.36	5	76	75			
	2014	7	14	95	66	69	0.00						0.47	5	76	75			
	2014	7	15	100	66	66	0.22						0.42	5	76	75			
	2014	7	16	89	66	68	0.03						0.30	5	76	75			
	2014	7	17	92	68	70	0.00						0.31	5	77	75			
	2014	7	18	92	67	69	0.00						0.33	5	75	75			
	2014	7	19	90	69	70	0.00						0.33	5	76	75			
	2014	7	20	100	63	70	1.04						0.57	5	76	75			
	2014	7	21	97	68	69	0.00						0.28	5	76	75			
	2014	7	22	101	69	74	0.00						0.38	5	76	75			
	2014	7	23	96	72	73	0.00						0.33	5	76	75			
	2014	7	24	97	66	69	0.00						0.25	5	78	75			
	2014	7	25	97	65	66	0.00						0.31	5	77	75			
	2014	7	26	100	66	72	0.00						0.39	5	77	75			
	2014	7	27	101	66	73	0.00						0.36	5	75	74			
	2014	7	28	100	73	73	0.00						0.43	5	75	74			
	2014	7	29	94	72	73	0.00						0.29	5	76	75			
	2014	7	30	93	66	68	0.00						0.24	5	76	75			
	2014	7	31	98	63	63	0.86						0.33	5	76	75			
Summary				95.0	66.4		2.24		0										

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Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	Snow, ice pellets, hail, ice on ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	8	1	77	63	67	0.26						0.15	5	75	72			
	2014	8	2	72	66	68	0.00						0.00	5	75	73			
	2014	8	3	76	65	67	0.00						0.11	5	75	72			
	2014	8	4	88	63	64	0.00						0.20	5	74	71			
	2014	8	5	91	63	64	0.00						0.29	5	73	72			
	2014	8	6	94	63	67	0.00						0.25	5	74	72			
	2014	8	7	97	67	70	0.00						0.18	5	74	73			
	2014	8	8	96	68	69	0.40						0.38	5	74	73			
	2014	8	9	88	69	70	0.00						0.19	5	74	72			
	2014	8	10	85	66	68	0.00						0.17	5	73	72			
	2014	8	11	92	66	66	0.00						0.28	5	75	73			
	2014	8	12	89	66	68	0.00						0.24	5	75	73			
	2014	8	13	90	66	70	0.00						0.28	5	76	73			
	2014	8	14	92	67	68	0.00						0.29	5	75	74			
	2014	8	15	93	66	69	0.00						0.27	5	76	73			
	2014	8	16	95	68	68	0.07						0.17	5	76	74			
	2014	8	17	93	63	65	0.01						0.30	5	75	74			
	2014	8	18	93	60	62	0.00						0.27	5	76	74			
	2014	8	19	94	62	63	0.00						0.29	5	77	75			
	2014	8	20	97	63	74	0.00						0.35	5	78	75			
	2014	8	21	94	65	66	0.00						0.33	5	78	75			
	2014	8	22	98	66	74	0.00						0.40	5	78	76			
	2014	8	23	93	64	64	0.00						0.29	5	78	75			
	2014	8	24	93	64	68	0.00						0.33	5	78	75			
	2014	8	25	96	67	69	0.00						0.41	5	77	76			
	2014	8	26	95	65	66	0.31						0.24	5	78	75			
	2014	8	27	92	66	66	0.04						0.26	5	76	75			
	2014	8	28	84	63	66	0.00						0.06	5	76	72			
	2014	8	29	92	63	68	0.00						0.25	5	75	74			
	2014	8	30	94	62	65	0.00						0.25	5	75	74			
	2014	8	31	95	61	62	0.00						0.32	5	75	74			
Summary				90.9	64.7		1.09		0										

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12/10/2014

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P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	9	1	100	60	64	0.00						0.24	5	75	74			
	2014	9	2	100	59	61	0.00						0.30	5	77	75			
	2014	9	3	102	61	64	0.00						0.29	5	76	75			
	2014	9	4	96	64	67	0.00						0.38	5	76	75			
	2014	9	5	90	66	68	0.00						0.23	5	77	75			
	2014	9	6	80	61	61	0.93						0.11	5	74	73			
	2014	9	7	65	60	61	0.34						0.03	5	74	70			
	2014	9	8	71	61	63	0.23						0.04	5	72	69			
	2014	9	9	84	63	65	0.00						0.26	5	72	70			
	2014	9	10	91	65	66	0.00						0.26	5	72	70			
	2014	9	11	92	66	68	0.00						0.20	5	73	72			
	2014	9	12	82	64	64	0.02						0.16	5	72	70			
	2014	9	13	67	49	50	0.61						0.04	5	73	72			
	2014	9	14	63	50	54	0.00						0.11	5	69	65			
	2014	9	15	66	54	62	0.02						-0.03s	5	62	60			
	2014	9	16	76	61	65	0.00						0.21	5	65	64			
	2014	9	17	74	63	63	0.04						0.00	5	65	64			
	2014	9	18	81	63	66	0.53						0.10	5	65	62			
	2014	9	19	74	65	67	1.96						0.00	5	65	63			
	2014	9	20	74	67	67	0.16						0.00	5	65	63			
	2014	9	21	82	67	68	0.00						0.00	5	68	67			
	2014	9	22	75	65	66	1.27						0.00	5	68	66			
	2014	9	23	73	62	62	0.67						0.00	5	69	66			
	2014	9	24	80	59	59	0.00						0.15	5	69	67			
	2014	9	25	82	56	56	0.55						0.26	5	65	64			
	2014	9	26	76	56	57	0.02						0.16	5	68	64			
	2014	9	27	77	54	56	0.00						0.44	5	66	65			
	2014	9	28	73	56	59	0.00						0.12	5	66	64			
	2014	9	29	77	55	55	0.00						0.18	5	66	64			
	2014	9	30	80	55	56	0.02						0.24	5	66	64			
Summary				80.1	60.2		7.37		0										

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	Snow, ice pellets, hail, ice on ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	10	1	84	48	48	0.00						0.28	5	66	63			
	2014	10	2	84	48	51	0.00						0.28	5	67	64			
	2014	10	3	79	44	44	0.00						0.20	5	65	62			
	2014	10	4	76	42	42	0.00						0.23	5	64	61			
	2014	10	5	82	42	52	0.00						0.18	5	64	62			
	2014	10	6	86	44	45	0.00						0.27	5	64	61			
	2014	10	7	87	45	48	0.00						0.17	5	65	62			
	2014	10	8	89	46	49	0.00						0.19	5	65	62			
	2014	10	9	88	49	53	0.00						0.19	5	65	62			
	2014	10	10	86	52	58	0.00						0.27	5	66	65			
	2014	10	11	77	44	45	0.00						0.24	5	66	65			
	2014	10	12	68	44	48	0.00						0.19	5	65	62			
	2014	10	13	82	45	51	0.00						0.35	5	65	62			
	2014	10	14	68	34	35	0.00						0.16	5	62	60			
	2014	10	15	75	35	39	0.00						0.17	5	63	60			
	2014	10	16	81	38	40	0.00						0.19	5	62	60			
	2014	10	17	88	40	48	0.00						0.16	5	62	60			
	2014	10	18	83	45	53	0.00						0.17	5	62	60			
	2014	10	19	67	52	53	0.02						0.15	5	62	60			
	2014	10	20	72	53	56	0.00						0.19	5	61	60			
	2014	10	21	72	56	57	0.47						0.11	5	62	60			
	2014	10	22	71	57	60	0.01						0.12	5	62	60			
	2014	10	23	74	56	56	0.00						0.13	5	62	61			
	2014	10	24	78	50	50	0.00						0.17	5	61	60			
	2014	10	25	83	46	46	0.00						0.14	5	61	60			
	2014	10	26	84	45	47	0.00						0.19	5	61	60			
	2014	10	27	87	47	60	0.00						0.23	5	61	60			
	2014	10	28	83	45	45	0.00						0.21	5	61	60			
	2014	10	29	67	37	37	0.00						0.11	5	62	58			
	2014	10	30	72	37	40	0.00						0.12	5	59	59			
	2014	10	31	79	39	40	0.00						0.18	5	59	58			
			Summary	79.1	45.3		0.50		0										

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Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	Snow, ice pellets, hail, ice on ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	11	1	68	39	41	0.00												
	2014	11	2	65	41	51	0.00												
	2014	11	3	71	51	54	0.03												
	2014	11	4	69	44	44	1.35												
	2014	11	5	45	42	43	0.20												
	2014	11	6	58	39	39	0.00												
	2014	11	7	64	33	37	0.00												
	2014	11	8	71	37	50	0.00												
	2014	11	9	65	35	41	0.00												
	2014	11	10	74	41	52	0.00												
	2014	11	11	78	30	31	0.00												
	2014	11	12	47	26	27	0.00												
	2014	11	13	36	22	23	0.00												
	2014	11	14	30	22	23	0.00												
	2014	11	15	48	23	25	0.00												
	2014	11	16	75	25	30	0.00												
	2014	11	17	30	12	13	0.05												
	2014	11	18	43	13	15	0.00												
	2014	11	19	54	15	23	0.00												
	2014	11	20	65	23	26	0.00												
	2014	11	21	72	26	31	0.00												
	2014	11	22	69	31	43	0.00												
	2014	11	23	70	43	45	0.00												
	2014	11	24	67	27	27	0.00												
	2014	11	25	58	26	27	0.00												
	2014	11	26	59	27	27	0.00												
	2014	11	27																
	2014	11	28	61	24	27	0.00												
	2014	11	29	75	25	28	0.00												
	2014	11	30	79	28	41	0.00												
Summary				60.9	30.0		1.63		0										

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12/10/2014

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Station: **ARTESIA 6 S, NM US** GHCND:USC00290600
Observation Time Temperature: 0730 Observation Time Precipitation: 0730 Elev: 3366 ft. Lat: 32.755° N Lon: 104.384° W

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)			Precipitation(see **)					Evaporation		Soil Temperature (F)					
				24 hrs. ending at observation time		at O b s e r v a t i o n	24 Hour Amounts ending at observation time				At Obs Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in depth			8 in depth		
				Max.	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	Snow, ice pellets, hail, ice on ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2014	12	1	79	23	23	0.00												
	2014	12	2	38	18	18	0.00												
	2014	12	3	53	18	38	0.00												
	2014	12	4	74	35	36	0.00												
	2014	12	5																
	2014	12	6																
	2014	12	7																
	2014	12	8																
	2014	12	9																
	2014	12	10																
	2014	12	11																
	2014	12	12																
	2014	12	13																
	2014	12	14																
	2014	12	15																
	2014	12	16																
	2014	12	17																
	2014	12	18																
	2014	12	19																
	2014	12	20																
	2014	12	21																
	2014	12	22																
	2014	12	23																
	2014	12	24																
	2014	12	25																
	2014	12	26																
	2014	12	27																
	2014	12	28																
	2014	12	29																
	2014	12	30																
	2014	12	31																
Summary				61.0	23.5		0.00		0										

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Appendix C

Laboratory Reports and Tabulated
Data 2013-2014

Tables:

*C.1 - Groundwater Analytical
Data 2012-2014: Total Petroleum
Hydrocarbons*

*C.2 - Groundwater Analytical
Data 2012-2014: Total Metals*

*C.3 - Groundwater Analytical
Data 2012-2014: Dissolved Metals*

*C.4 - Groundwater Analytical
Data 2012-2014: Volatile Organic
Compounds*

*C.5 - Groundwater Analytical
Data 2012-2014: Semivolatile
Organic Compounds*

*C.6 - Groundwater Analytical
Data 2012-2014: Water Quality
Parameters*

2014 Analytical Data Reports

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
Crossgradient	KWB-13	Apr-12				< 0.050
	KWB-13	Apr-13				< 0.052
	KWB-13	Apr-14				< 0.020
	MW-17	Apr-14				0.038 J
	NP-5	Apr-12	FD			< 0.050
	NP-5	Apr-12				< 0.050
	NP-5	Apr-13				< 0.053
EP	MW-10	Apr-12			1.14	0.65
	MW-10	Sep-12			1.00	1.7
	MW-10	Apr-13			1.21	1.9
	MW-10	Nov-13			1.07	0.97
	MW-10	Apr-14			1.08	2.0
	MW-10	Nov-14			0.91	2.2
	MW-11A	Apr-12			< 0.0500	< 0.050
	MW-11A	Mar-13			< 0.0500	< 0.052
	MW-11A	Apr-14			< 0.0100	< 0.021
	MW-11B	Mar-13			< 0.0500	< 0.052
	MW-12	Apr-14				< 0.020
	MW-120	Oct-13			0.0586	1.1
	MW-120	Apr-14			0.0734	0.23
	MW-120	Nov-14			0.057 J	2.4
	MW-121	Oct-13			< 0.0500	0.25
	MW-121	Apr-14			< 0.0100	0.092
	MW-121	Nov-14			< 0.031	0.51
	MW-122	Oct-13			< 0.0500	0.16
	MW-122	Apr-14			0.0289 J	< 0.021
	MW-122	Nov-14			< 0.031	5.5
	MW-123	Nov-13	FD		2.00	1.8
	MW-123	Nov-13			1.92	1.6
	MW-123	Apr-14			< 0.0100	2.8
	MW-123	Nov-14			1.6	2.7
	MW-124	Nov-13			< 0.0500	< 0.051
	MW-124	Apr-14			< 0.0100	< 0.021
	MW-124	Nov-14			< 0.031	< 0.022
	MW-13	Apr-14				< 0.020
	MW-15	Apr-12	FD		0.237	0.28
	MW-15	Apr-12			0.213	0.44
	MW-15	Mar-13			< 0.0500	0.20
	MW-15	Apr-14			0.149	0.57
	MW-18A	Apr-12				0.079
	MW-18A	Sep-12				0.19
	MW-18A	Apr-13				0.21
	MW-18A	Nov-13	FD			< 0.052
	MW-18A	Nov-13				< 0.051
	MW-18A	Apr-14				< 0.020

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
EP	MW-18A	Nov-14				0.074 J
	MW-18B	Apr-13			0.0995	< 0.052
	MW-1R	Apr-12				< 0.050
	MW-1R	Apr-13	FD			< 0.052
	MW-1R	Apr-13				< 0.052
	MW-1R	Apr-14				< 0.020
	MW-22A	Apr-12			5.77	1.8
	MW-22A	Sep-12			5.13	5.4
	MW-22A	Apr-13			5.50	6.1
	MW-22A	Nov-13			4.44	4.0
	MW-22A	Apr-14			3.46	5.8
	MW-22A	Nov-14	FD		4.3	5.3
	MW-22A	Nov-14			3.3	5.6
	MW-22B	Apr-13			1.99	3.0
	MW-2A	Mar-12			< 0.0500	0.073
	MW-2A	Sep-12			< 0.0500	< 0.051
	MW-2A	Mar-13			< 0.0500	0.15
	MW-2A	Nov-13			< 0.0500	< 0.051
	MW-2A	Apr-14			0.129	< 0.020
	MW-2A	Nov-14			< 0.031	0.25
	MW-3	Mar-12			0.716	1.4
	MW-3	Sep-12			0.288	3.0
	MW-3	Mar-13			0.479	4.5
	MW-3	Nov-13			0.229	2.3
	MW-3	Apr-14			0.0493 J	1.0
	MW-3	Nov-14			0.54	9.1
	MW-3	Nov-14	FD		0.52	9.2
	MW-4A	Apr-12			0.313	0.67
	MW-4A	Sep-12			0.344	2.8
	MW-4A	Apr-13			0.514	3.2
	MW-4A	Nov-13			0.346	1.8
	MW-4A	Apr-14			0.342 H	3.4
	MW-4A	Nov-14			0.35	3.8
	MW-4B	Apr-13			0.102	0.36
	MW-5A	Apr-12			4.20	5.1
	MW-5A	Sep-12			3.33	5.9
	MW-5A	Apr-13			5.30	5.8
	MW-5A	Nov-13			3.59	5.3
	MW-5A	Apr-14			4.48 H	6.1
	MW-5A	Nov-14			0.9	2
	MW-5B	Apr-13			1.78	7.1
	MW-5C	Apr-13			0.0652	0.22
	MW-6A	Mar-12			0.166	1.4
	MW-6A	Mar-13			0.190	3.0
	MW-6A	Apr-14			0.238	1.5

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
EP						
	MW-6B	Mar-13	FD		< 0.0500	< 0.054
	MW-6B	Mar-13			< 0.0500	< 0.053
	MW-70	Apr-12			1.40	0.26
	MW-70	Sep-12			1.53	0.61
	MW-70	Apr-13			1.61	0.71
	MW-70	Nov-13			1.43	0.22
	MW-70	Apr-14			1.42	0.53
	MW-70	Nov-14			1.2	0.72
	MW-72	Mar-12			0.130	0.24
	MW-72	Sep-12			0.102	0.67
	MW-72	Mar-13			0.139	0.18
	MW-72	Nov-13			0.0932	< 0.051
	MW-72	Apr-14			0.0920	0.76
	MW-73	Mar-12			0.927	1.0
	MW-73	Sep-12			0.896	
	MW-73	Mar-13			1.12	1.3
	MW-73	Oct-13			1.22	3.1
	MW-73	Apr-14			0.985	4.8
	MW-74	Mar-12			1.31	4.1
	MW-74	Sep-12			1.48	15
	MW-74	Mar-13			1.52	7.2
	MW-74	Oct-13			0.459	32
	MW-74	Apr-14			1.09	28
	MW-74	Nov-14			0.68	30
	MW-75	Mar-12			2.55	2.5
	MW-75	Sep-12			2.86	9.9
	MW-75	Mar-13			2.05	5.5
	MW-75	Oct-13			2.05	4.9
	MW-75	Apr-14			1.66	9.0
	MW-75	Nov-14			2.5	13
	MW-76	Mar-12			0.670	2.3
	MW-76	Sep-12			1.04	3.6
	MW-76	Mar-13			1.23	3.4
	MW-76	Oct-13			0.865	6.2
	MW-76	Apr-14			0.856	4.6
	MW-76	Nov-14			1.1	23
	MW-77	Mar-12			1.05	2.4
	MW-77	Sep-12			1.27	40
	MW-77	Mar-13			1.38	11
	MW-77	Oct-13	FD		1.21	17
	MW-77	Oct-13			1.17	17
	MW-77	Apr-14			1.13	39
	MW-77	Nov-14			1.3	91
	MW-78	Mar-12			0.554	1.8
	MW-78	Mar-13			0.373	6.4

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
EP	MW-78	Apr-14			0.333 J	29
	MW-79	Mar-12			0.113	0.36 J
	MW-79	Sep-12	FD		0.255	1.9
	MW-79	Sep-12			0.266	2.6
	MW-79	Mar-13			0.0630	0.23
	MW-79	Oct-13			0.0616	0.18
	MW-79	Apr-14			0.0756	1.3
	MW-79	Nov-14			0.055 J	0.59
	MW-7A	Apr-12			0.370	0.36
	MW-7A	Sep-12			0.381	1.1
	MW-7A	Apr-13			0.468	1.1
	MW-7A	Nov-13			0.576	0.30
	MW-7A	Apr-14			0.463 H	0.93
	MW-7A	Nov-14	FD		0.37	1.1
	MW-7A	Nov-14			0.36	1.1
	MW-7B	Apr-13			< 0.0500	< 0.053
	MW-80	Mar-12			< 0.0500	0.059 J
	MW-80	Mar-13			< 0.0500	0.054
	MW-80	Apr-14			0.0489 J	0.20
	MW-81	Mar-12			< 0.0500	0.32 J
	MW-81	Mar-13	FD		< 0.0500	0.15
	MW-81	Mar-13			< 0.0500	0.14
	MW-81	Apr-14			0.0318 J	3.6
	MW-82	Mar-12			1.45	2.4
	MW-82	Mar-13			1.30	2.7
	MW-82	Apr-14	FD		0.649	4.2
	MW-82	Apr-14			0.611	4.2
	MW-83	Mar-12			3.60	3.7
	MW-83	Sep-12			0.811	18
	MW-83	Mar-13			1.32	5.4
	MW-83	Oct-13			0.701	25
	MW-83	Apr-14			0.489 J	20
	MW-83	Nov-14			0.43	22
	MW-84	Mar-12	FD		0.882	5.6
	MW-84	Mar-12			0.895	4.2
	MW-84	Sep-12			1.31	20
	MW-84	Mar-13			0.910	8.8
	MW-84	Oct-13			0.783	26
	MW-84	Apr-14			0.607	27
	MW-84	Nov-14			0.61	75
	MW-87	Apr-12			< 0.0500	0.082
	MW-87	Sep-12			< 0.0500	0.12
	MW-87	Apr-13			< 0.0500	0.25
	MW-87	Nov-13			0.0560	< 0.051

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
EP	MW-87	Apr-14			< 0.0100	0.23
	MW-87	Nov-14			< 0.031	0.12
	MW-88	Apr-12			0.0735	0.15
	MW-88	Sep-12			0.0699	0.33
	MW-88	Apr-13			0.0648	0.37
	MW-88	Nov-13			0.0653	0.10
	MW-88	Apr-14			0.0497 J	0.37
	MW-88	Nov-14			0.048 J	0.57
	OCD-1R	Mar-12			< 0.0500	< 0.050
	OCD-1R	Sep-12			< 0.0500	< 0.051
	OCD-1R	Nov-13			< 0.0500	< 0.052
	OCD-1R	Apr-14			< 0.0100	< 0.021
	OCD-1R	Nov-14			< 0.031	0.23
	OCD-2A	Mar-12	FD		< 0.0500	< 0.050
	OCD-2A	Mar-12			< 0.0500	< 0.050
	OCD-2A	Sep-12			< 0.0500	< 0.052
	OCD-2A	Mar-13			< 0.0500	< 0.052
	OCD-2A	Nov-13			< 0.0500	< 0.052
	OCD-2A	Apr-14			< 0.0100	< 0.020
	OCD-2A	Nov-14			< 0.031	0.093 J
	OCD-3	Mar-12			< 0.0500	< 0.050
	OCD-3	Sep-12			< 0.0500	< 0.051
	OCD-3	Mar-13			< 0.0500	< 0.051
	OCD-3	Nov-13			< 0.0500	< 0.052
	OCD-3	Apr-14			< 0.0100	< 0.021
	OCD-3	Nov-14			< 0.031	0.07 J
	OCD-4	Mar-12			< 0.0500	< 0.050
	OCD-4	Sep-12			< 0.0500	< 0.051
	OCD-4	Mar-13			< 0.0500	< 0.052
	OCD-4	Nov-13			< 0.0500	< 0.052
	OCD-4	Apr-14			< 0.0100	< 0.021
	OCD-4	Nov-14			< 0.031	0.065 J
	OCD-5	Mar-12			< 0.0500	< 0.050
	OCD-5	Sep-12			< 0.0500	< 0.051
	OCD-5	Mar-13			0.0703	< 0.053
	OCD-5	Nov-13			0.204	0.084
	OCD-5	Apr-14	FD		0.140	< 0.021
	OCD-5	Apr-14			0.127	< 0.021
	OCD-5	Nov-14			0.26	0.54
	OCD-6	Mar-12			0.494	0.76
	OCD-6	Sep-12			0.360	1.1
	OCD-6	Mar-13			0.436	1.9
	OCD-6	Nov-13			0.249	0.45
	OCD-6	Apr-14			0.297	0.82

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
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Navajo Refining, Artesia, New Mexico

				Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
Location Name	Location	Date	Dup			
EP	OCD-6	Nov-14			< 0.031	0.54
	OCD-7AR	Mar-12			1.26	1.3
	OCD-7AR	Sep-12			1.15	4.0
	OCD-7AR	Mar-13			1.63	5.0
	OCD-7AR	Nov-13			1.21	4.1
	OCD-7AR	Apr-14	FD		0.883	4.1
	OCD-7AR	Apr-14			0.889	4.0
	OCD-7AR	Nov-14			0.76	3.5
	OCD-7B	Mar-13			< 0.0500	< 0.052
	OCD-8A	Apr-12			0.923	1.2
	OCD-8A	Sep-12	FD		0.927	3.4
	OCD-8A	Sep-12			0.926	3.3
	OCD-8A	Apr-13	FD		1.14	3.1
	OCD-8A	Apr-13			1.16	3.8
	OCD-8A	Nov-13			0.436	0.58
	OCD-8A	Apr-14	FD		0.764	2.8
	OCD-8A	Apr-14			0.728	2.9
	OCD-8A	Nov-14			0.66	1.8
	OCD-8B	Apr-13			0.298	0.89
Field E of Refinery	KWB-10R	Nov-14				12
	KWB-11A	Apr-12			< 0.0500	< 0.050
	KWB-11A	Oct-12			< 0.0500	< 0.051
	KWB-11A	Apr-13			< 0.0500	< 0.051
	KWB-11A	Nov-14	FD		0.29	0.86
	KWB-11A	Nov-14			< 0.031	0.71
	KWB-11B	Apr-12			< 0.0500	< 0.050
	KWB-11B	Oct-12			< 0.0500	< 0.050
	KWB-11B	Apr-13			< 0.0500	< 0.052
	KWB-11B	Apr-14			2.74	3.2
	KWB-11B	Nov-14			< 0.031	< 0.022
	KWB-12A	Oct-12			< 0.0500	< 0.052
	KWB-12A	Oct-13			< 0.0500	< 0.052
	KWB-12A	Nov-14			< 0.031	< 0.022
	KWB-12A	Nov-14	FD		< 0.031	0.074 J
	KWB-12B	Apr-12			< 0.0500	< 0.050
	KWB-12B	Oct-12	FD		< 0.0500	< 0.051
	KWB-12B	Oct-12			< 0.0500	< 0.051
	KWB-12B	Apr-13	FD		< 0.0500	< 0.052
	KWB-12B	Apr-13			< 0.0500	< 0.052
	KWB-12B	Oct-13			< 0.0500	< 0.052
	KWB-12B	Apr-14	FD		< 0.0100	< 0.021
	KWB-12B	Apr-14			< 0.0100	< 0.021
	KWB-12B	Nov-14			< 0.031	< 0.022
	KWB-1A	Apr-12				< 0.050
	KWB-1A	Sep-12				< 0.051

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
Field E of Refinery	KWB-1A	Apr-13				< 0.053
	KWB-1A	Oct-13			< 0.0500	< 0.052
	KWB-1A	Apr-14				< 0.021
	KWB-1A	Nov-14				0.15 J
	KWB-1C	Apr-13				< 0.044
	KWB-7	Apr-12				0.058
	KWB-7	Oct-12				< 0.051
	KWB-7	Apr-13			< 0.0500	0.62
	KWB-7	Nov-14				1
	KWB-P4	Apr-13				< 0.052
	MW-111	Apr-13			2.49	1.7
	MW-111	Oct-13			2.26	1.4
	MW-111	Apr-14			2.36	1.3
	MW-111	Nov-14			1.7	2
	MW-112	Nov-14			28	2.2
	MW-113	Apr-13			< 0.0500	0.20
	MW-113	Oct-13			3.05	< 0.051
	MW-113	Apr-14			17.3	0.23
	MW-113	Nov-14	FD		2.7	0.82
	MW-113	Nov-14			2.4	0.64
	MW-57	Apr-12			< 0.0500	0.074
	MW-57	Oct-12			< 0.0500	0.081
	MW-57	Apr-13			< 0.0500	0.32
	MW-57	Oct-13			0.357	0.67
	MW-57	Apr-14			0.350	0.78
	MW-57	Nov-14			0.047 J	0.26 J
	MW-58	Oct-13			6.91	1.7
	MW-58	Nov-14				7.8
	MW-125	Apr-14			0.0383 J	< 0.021
	MW-125	Nov-14			< 0.031	0.047 J
	MW-126A	Apr-14			0.142	0.71
	MW-126A	Nov-14			0.41	0.88
	MW-126B	Apr-14			0.0791	0.34
	MW-126B	Nov-14			< 0.031	0.28
	MW-127	Apr-14			37.7	3.5
	MW-127	Nov-14			6.1	1.3
	MW-128	Apr-14			3.19	2.1
	MW-128	Nov-14			1.2	2.4
	MW-129	Nov-14			4.6	2.7
	MW-131	Apr-14			26.2	3.4
	MW-131	Nov-14			9.1	3.7
	MW-133	Nov-14			9.4	2.8
	MW-134	Apr-14			< 0.0100	< 0.021
	MW-134	Nov-14			< 0.031	0.064 J
	MW-135	Apr-14			< 0.0100	< 0.021
	MW-135	Nov-14			< 0.031	0.31

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
N Refinery	MW-23	Apr-12			25.0	2.8
	MW-23	Oct-12			27.5	14
	MW-23	Apr-13			30.4	17
	MW-23	Oct-13			38.3	20
	MW-23	Apr-14			32.1	6.0
	MW-23	Nov-14			39	6
	MW-29	Apr-12			0.0787	0.28
	MW-29	Oct-12			0.114	0.95
	MW-29	Apr-13			< 0.0500	0.30
	MW-29	Oct-13			0.113	1.3
	MW-29	Apr-14			< 0.0100 B	0.51
	MW-29	Nov-14			< 0.031	1.2
	MW-39	Oct-13			2.37	4.6
	MW-40	Apr-12			0.492	0.64
	MW-40	Apr-13			0.919	1.7
	MW-40	Apr-14			1.01	0.88
	MW-41	Apr-12			0.114	0.61
	MW-41	Oct-12			0.129	1.5
	MW-41	Apr-13			0.167	0.74
	MW-41	Oct-13			0.0833	1.3
	MW-41	Apr-14			0.233	0.30
	MW-42	Apr-12			2.45	1.4
	MW-42	Oct-12			1.41	3.4
	MW-42	Apr-13			2.89	3.5
	MW-42	Oct-13			3.17	4.8
	MW-42	Apr-14			2.90	1.4
	MW-43	Apr-12			2.90	1.9
	MW-43	Oct-12	FD		4.18	5.8
	MW-43	Oct-12			4.32	5.9
	MW-43	Apr-13			1.98	5.2
	MW-43	Oct-13	FD		6.94	8.3
	MW-43	Oct-13			6.73	8.0
	MW-43	Apr-14			2.89	1.2
	MW-43	Nov-14			4.8	7.4
	MW-59	Apr-12			0.103	0.062
	MW-59	Apr-13			0.130	< 0.052
	MW-59	Apr-14			0.247	0.068
	MW-60	Apr-12			0.797	0.27
	MW-60	Oct-12	FD		0.901	0.35
	MW-60	Oct-12			0.902	0.35
	MW-60	Apr-13	FD		0.936	0.39
	MW-60	Apr-13			0.907	0.42
	MW-60	Oct-13	FD		0.753	0.32
	MW-60	Oct-13			0.776	0.34
	MW-60	Apr-14			0.658	0.11

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
N Refinery	MW-60	Nov-14			0.54	0.63
	MW-61	Apr-12			8.87	0.78
	MW-61	Oct-12			8.87	1.9
	MW-61	Apr-13			8.43	2.5
	MW-61	Oct-13			1.95	3.3
	MW-61	Apr-14			10.9 J	3.4
	MW-61	Nov-14			11	6.4
	MW-62	Apr-12			2.54	0.92
	MW-62	Oct-12			2.85	7.4
	MW-62	Apr-13			2.92	6.3
	MW-62	Oct-13			10.7	7.3
	MW-62	Apr-14			7.37	2.0
	MW-62	Nov-14			42	29
	MW-67	Oct-13			9.46	5.5
	MW-67	Nov-14			0.81	4.2
	MW-90	Apr-12	FD		0.178	0.87
	MW-90	Apr-12			0.180	1.2
	MW-90	Oct-12			0.216	3.6
	MW-90	Apr-13			0.221	3.9
	MW-90	Oct-13			0.157	6.2
	MW-90	Apr-14			0.317	1.4
	MW-90	Nov-14			0.21	2.3
	MW-91	Oct-13	FD		8.09	7.6
	MW-91	Oct-13			7.89	6.9
	MW-91	Apr-14			11.9	2.9
	MW-91	Nov-14			7.9	11
	MW-93	Apr-12			8.41	2.4
	MW-93	Oct-12			7.84	4.6
	MW-93	Apr-13			8.99	6.2
	MW-93	Oct-13			9.74	10
	MW-93	Apr-14			9.90	14
	MW-93	Nov-14			6.5	11
	MW-94	Nov-14			5.5	9.4
	MW-95	Apr-12			0.0562	0.57
	MW-95	Apr-13			0.0526	3.4
	MW-95	Apr-14			0.0926	1.1
	MW-96	Apr-12			3.53	1.1
	MW-96	Oct-12			34.2	6.1
	MW-96	Apr-13			26.6	6.4
	MW-96	Oct-13			25.5	5.4
	MW-96	Apr-14			25.8	2.2
	MW-96	Nov-14			26	10
	MW-98	Apr-12			29.1	2.9
	MW-98	Oct-12			26.0	5.6
	MW-98	Apr-13			26.2	6.2

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
N Refinery	MW-98	Oct-13			29.2	3.1
	MW-98	Apr-14	FD		32.5	2.7
	MW-98	Apr-14			32.1	2.2
	MW-98	Nov-14			26	5.4
	RW-10	Apr-12			4.60	0.72
	RW-10	Apr-13			< 0.0500	0.65
	RW-10	Apr-14			< 0.0100	0.15
	RW-16	Apr-13				0.58
	RW-16	Apr-14	FD			0.23
	RW-16	Apr-14				0.11
	RW-16A	Apr-12				0.29
	RW-17	Apr-13			< 0.0500	0.29
	RW-17	Apr-14			< 0.0100	0.11
	RW-17A	Apr-12			< 0.0500	0.27
	RW-9	Apr-12			< 0.0500	0.44
	RW-9	Apr-13			4.14	2.3
	RW-9	Apr-14			3.26	0.48
N RO Reject Field	MW-117	Feb-13			< 0.020	< 0.020
	MW-117	May-13			< 0.020	< 0.020
	MW-117	Sep-13			< 0.0200	< 0.020
	MW-117	Nov-13			< 0.0200	< 0.020
	MW-117	Apr-14			< 0.0100	< 0.022
	MW-117	Nov-14	FD		< 0.031	0.12 J
	MW-117	Nov-14			< 0.031	0.029 J
	MW-118	Feb-13			0.0436 J	< 0.020
	MW-118	May-13			< 0.020	< 0.020
	MW-118	Sep-13			< 0.0200	< 0.020
	MW-118	Nov-13			< 0.0200	< 0.020
	MW-118	Apr-14			< 0.0100	< 0.021
	MW-118	Nov-14			< 0.031	0.032 J
	MW-119	Feb-13			0.0371 J	< 0.020
	MW-119	May-13			< 0.020	< 0.020
	MW-119	Sep-13			< 0.0200	< 0.020
	MW-119	Nov-13			< 0.0200	< 0.020
	MW-119	Apr-14	FD		< 0.0100	< 0.021
	MW-119	Apr-14			< 0.0100	< 0.020
	MW-119	Nov-14			< 0.031	0.053 J
NCL	MW-108	Apr-12				0.98
	MW-108	Oct-12				2.9
	MW-108	Apr-13				4.2
	MW-108	Oct-13				3.6
	MW-108	Apr-14				3.0
	MW-108	Nov-14				7.7
MW-18	MW-18	Apr-12				0.28
	MW-18	Oct-12				0.21

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
NCL	MW-18	Apr-13	FD			0.34
	MW-18	Apr-13				0.33
	MW-18	Oct-13				0.58
	MW-18	Apr-14				0.28
	MW-45	Apr-12				0.17
	MW-45	Oct-12				0.70
	MW-45	Apr-13				0.44
	MW-45	Oct-13				0.55
	MW-45	Apr-14				0.27
	MW-45	Nov-14				0.86
	MW-53	Apr-12				< 0.050
	MW-53	Apr-13				< 0.053
	MW-53	Apr-14				< 0.021
	MW-54A	Apr-12				0.15
	MW-54A	Oct-12				0.87
	MW-54A	Apr-13				0.92
	MW-54A	Oct-13				1.4
	MW-54A	Apr-14				0.57
	MW-54A	Nov-14				2.6
	MW-54B	Apr-13		< 0.0500		0.63
	MW-55	Apr-12		< 0.0500		< 0.050
	MW-55	Oct-12	FD	< 0.0500		< 0.051
	MW-55	Oct-12		< 0.0500		< 0.051
	MW-55	Apr-13		< 0.0500		< 0.051
	MW-55	Oct-13		< 0.0500		< 0.052
	MW-55	Apr-14	FD	< 0.0100		< 0.021
	MW-55	Apr-14		< 0.0100		< 0.020
	MW-55	Nov-14		< 0.031		0.12
	MW-56	Apr-12	FD			0.090
	MW-56	Apr-12				0.071
	MW-56	Oct-12				< 0.050
	MW-56	Apr-13				0.21
	MW-56	Oct-13				0.078
	MW-56	Apr-14				0.29
	MW-56	Nov-14				0.8
	NCL-31	Apr-12				0.40
	NCL-31	Oct-12				0.68
	NCL-31	Apr-13				1.1
	NCL-31	Oct-13				1.3
	NCL-31	Apr-14				0.65
	NCL-32	Nov-14				2.3
	NCL-33	Apr-12				0.60
	NCL-33	Oct-12				2.0
	NCL-33	Apr-13				2.1
	NCL-33	Oct-13				2.4

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
NCL	NCL-33	Apr-14				1.2
	NCL-33	Nov-14				3.7
	NCL-34A	Oct-13				5.7
	NCL-34A	Nov-14				5.3
	NCL-44	Apr-12				0.56
	NCL-44	Oct-12				2.1
	NCL-44	Apr-13				2.5
	NCL-44	Oct-13				3.0
	NCL-44	Apr-14				1.5
	NCL-44	Nov-14				3.9
	NCL-49	Apr-12				< 0.050
	NCL-49	Oct-12	FD			< 0.051
	NCL-49	Oct-12				< 0.051
	NCL-49	Apr-13				< 0.052
	NCL-49	Oct-13				< 0.051
	NCL-49	Apr-14				< 0.020
	NCL-49	Nov-14				0.042 J
	NCL-49	Nov-14	FD			0.028 J
S Refinery	KWB-2R	Nov-14				5.5
	KWB-4	Oct-13		12.6		1.3
	KWB-5	Nov-14				1.8
	KWB-6	Nov-14				1.8
	MW-101	Apr-12		9.61		0.70
	MW-101	Oct-12		3.17		2.4
	MW-101	Apr-13		6.76		3.5
	MW-101	Oct-13		1.05		3.7
	MW-101	Apr-14		4.56		4.3
	MW-101	Nov-14		1.4		5.3
	MW-102	Nov-14		36		9.5
	MW-103	Apr-12		2.44		0.82
	MW-103	Apr-13		3.31		5.4
	MW-103	Apr-14		1.43 J		5.9
	MW-104	Apr-12		0.692		0.19
	MW-104	Oct-12		0.692		0.93
	MW-104	Apr-13		1.14		0.99
	MW-104	Oct-13		0.993		0.60
	MW-104	Apr-14	FD	1.42		0.69
	MW-104	Apr-14		1.42		0.72
	MW-104	Nov-14	FD	1.4		0.62
	MW-104	Nov-14		1.3 J		0.7
	MW-105	Nov-14		14		7.8
	MW-106	Apr-12		23.4		2.2
	MW-106	Oct-12		8.84		2.1
	MW-106	Apr-13		26.1		6.1
	MW-106	Oct-13		27.8		3.7

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
S Refinery	MW-106	Apr-14			27.9	2.1
	MW-107	Apr-12	FD		14.4	2.0
	MW-107	Apr-12			14.7	1.9
	MW-107	Oct-12			21.0	4.4
	MW-107	Apr-13			21.3	5.9
	MW-107	Oct-13			21.4	6.2
	MW-107	Apr-14			7.32	4.9
	MW-107	Nov-14			17	4.9
	MW-109	Apr-12			3.31	0.39
	MW-109	Oct-12			0.793	0.54
	MW-109	Apr-13			2.12	1.7
	MW-109	Oct-13			1.01	0.93
	MW-109	Apr-14			2.02	2.7
	MW-109	Nov-14			1	3.7
	MW-110	Apr-12			1.03	0.13
	MW-110	Oct-12			1.33	1.4
	MW-110	Apr-13			0.892	0.73
	MW-110	Oct-13			0.329	0.25
	MW-110	Apr-14			2.05	1.2
	MW-110	Nov-14			0.47	0.82
	MW-28	Apr-12			4.49	1.7
	MW-28	Oct-12			6.73	2.7
	MW-28	Apr-13			6.08	2.7
	MW-28	Oct-13			6.19	3.1
	MW-28	Apr-14			6.32	3.0
	MW-28	Nov-14			16	3.7
	MW-48	Nov-14			4.5 J	4
	MW-50	Apr-12				< 0.050
	MW-50	Oct-12				0.14
	MW-50	Apr-13				0.16
	MW-50	Oct-13				< 0.052
	MW-50	Apr-14				0.12
	MW-50	Nov-14				0.36 J
	MW-52	Apr-12			< 0.0500	< 0.050
	MW-52	Oct-12			< 0.0500	< 0.051
	MW-52	Apr-13			< 0.0500	0.24
	MW-52	Oct-13	FD		< 0.0500	< 0.052
	MW-52	Oct-13			< 0.0500	0.14
	MW-52	Apr-14	FD		0.0263 J	0.33
	MW-52	Apr-14			0.0223 J	0.17
	MW-52	Nov-14			0.032 J	0.28 J
	MW-65	Nov-14			27	15
	MW-66	Apr-12			2.51	0.81
	MW-66	Oct-12			11.6	1.7
	MW-66	Apr-13			7.57	2.4

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
S Refinery	MW-66	Oct-13	FD		10.9	3.2 J
	MW-66	Oct-13			10.7	1.4 J
	MW-66	Apr-14			6.64	2.1
	MW-66	Nov-14			23	3.3
	MW-99	Nov-14			14	2.5
	MW-130	Apr-14			< 0.0100	0.33
	MW-130	Nov-14			< 0.031	0.7
S RO Reject Field	MW-114	Feb-13			< 0.020	< 0.020
	MW-114	May-13			< 0.020	< 0.020
	MW-114	Sep-13			< 0.0200	< 0.020
	MW-114	Nov-13			< 0.0200	< 0.020
	MW-114	Apr-14			< 0.0100	< 0.020
	MW-114	Nov-14			< 0.031	0.032 J
	MW-115	Feb-13			< 0.020	< 0.020
	MW-115	May-13	FD		< 0.020	< 0.020
	MW-115	May-13			< 0.020	< 0.020
	MW-115	Sep-13			< 0.0200	< 0.020
	MW-115	Nov-13			< 0.0200	< 0.020
	MW-115	Apr-14			< 0.0100	< 0.021
	MW-115	Nov-14			< 0.031	0.11
	MW-116	Feb-13			< 0.020	< 0.020
	MW-116	May-13			< 0.020	< 0.020
	MW-116	Sep-13	FD		< 0.0200	< 0.020
	MW-116	Sep-13			< 0.0200	< 0.020
	MW-116	Nov-13	FD		< 0.0200	< 0.020
	MW-116	Nov-13			< 0.0200	< 0.020
	MW-116	Apr-14			< 0.0100	< 0.021
	MW-116	Nov-14			< 0.031	0.026 J
TEL	MW-49	Apr-12	FD		2.49	1.5
	MW-49	Apr-12			2.52	1.4
	MW-49	Oct-12			2.04	4.3
	MW-49	Apr-13	FD		1.90	5.1
	MW-49	Apr-13			1.90	5.0
	MW-49	Oct-13			2.79	2.6
	MW-49	Apr-14			1.99	5.6
	MW-49	Nov-14			1	7
	TEL-1	Apr-12	FD		0.275	2.0
	TEL-1	Apr-12			0.290	2.4
	TEL-1	Oct-12	FD		0.286	5.6
	TEL-1	Oct-12			0.335	5.6
	TEL-1	Apr-13			0.218	5.1
	TEL-1	Oct-13			0.276	3.9
	TEL-1	Apr-14	FD		0.350	7.7
	TEL-1	Apr-14			0.384 J	8.7
	TEL-1	Nov-14			0.2	6

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

				Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
Location Name	Location	Date	Dup			
TEL	TEL-2	Apr-12			4.73	3.8
	TEL-2	Oct-12			5.85	9.3
	TEL-2	Apr-13			6.51	12
	TEL-2	Oct-13			6.19	7.5
	TEL-2	Apr-14			6.08 J	17
	TEL-2	Nov-14			1.7 J	18
	TEL-3	Apr-12			0.667	0.97
	TEL-3	Oct-12			0.644	3.2
	TEL-3	Apr-13			0.715	4.0
	TEL-3	Oct-13			0.798	1.9
	TEL-3	Apr-14			0.971 J	8.3
	TEL-3	Nov-14			0.45	6.3
	TEL-4	Apr-12			1.40	1.3
	TEL-4	Oct-12			1.70	2.3
	TEL-4	Apr-13			2.61	4.7
	TEL-4	Oct-13			3.02	2.6
	TEL-4	Apr-14			3.11 J	8.6
	TEL-4	Nov-14	FD		2.8	5.7
	TEL-4	Nov-14			3.3	7.4
TMD	MW-16	Apr-12				< 0.050
	MW-16	Apr-13				< 0.052
	MW-16	Apr-14				0.058
	MW-20	Apr-12				< 0.050
	MW-20	Apr-13				< 0.053
	MW-20	Apr-14	FD			< 0.020
	MW-20	Apr-14				< 0.020
	MW-21	Apr-12			< 0.0500	< 0.050
	MW-21	Oct-12			< 0.0500	< 0.051
	MW-21	Apr-13			< 0.0500	< 0.052
	MW-21	Oct-13	FD		< 0.0500	< 0.053
	MW-21	Oct-13			< 0.0500	< 0.051
	MW-21	Apr-14			< 0.0100	< 0.020
	MW-21	Nov-14			< 0.031	0.092 J
	MW-25	Apr-12				< 0.050
	MW-25	Apr-13				< 0.052
	MW-25	Apr-14				< 0.020
	MW-26	Apr-12				< 0.050
	MW-26	Apr-13				< 0.053
	MW-26	Apr-14				< 0.020
	MW-27	Apr-12				< 0.050
	MW-27	Apr-13				< 0.052
	MW-27	Apr-14				< 0.021
	MW-46R	Apr-12				< 0.050
	MW-46R	Oct-12				0.13
	MW-46R	Apr-13				< 0.052

Table C.1 - Groundwater Analytical Results 2012-2014 - TPH (GRO and DRO)
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Gasoline Range Organics	TPH Diesel Range
				Units:	mg/l	mg/l
				CGWSL:	---	0.2
				CGWSL Source:		NMED TPH
TMD	MW-46R	Oct-13				< 0.052
	MW-46R	Apr-14				< 0.021
	MW-46R	Nov-14				0.042 J
	MW-68	Apr-12				< 0.050
	MW-68	Apr-13				< 0.052
	MW-68	Apr-14				< 0.020
	MW-71	Apr-12				< 0.050
	MW-71	Sep-12				< 0.051
	MW-71	Apr-13	FD			< 0.052
	MW-71	Apr-13				< 0.051
	MW-71	Oct-13				0.096
	MW-71	Apr-14				< 0.021
	MW-8	Apr-12			< 0.0500	< 0.050
	MW-8	Oct-12			< 0.0500	< 0.051
	MW-8	Apr-13			< 0.0500	< 0.053
	MW-8	Oct-13			< 0.0500	< 0.052
	MW-8	Apr-14			< 0.0100	< 0.021
	MW-89	Apr-12				0.13
	MW-89	Apr-13				0.058
	MW-89	Apr-14				0.21
	NP-1	Apr-13			0.158	< 0.053
	NP-2	Apr-13			< 0.0500	< 0.052
Upgradient	UG-1	Apr-12			< 0.0500	< 0.050
	UG-1	Apr-13			< 0.0500	< 0.053
	UG-1	Apr-14			< 0.0100	< 0.021
	UG-2	Apr-12			< 0.0500	< 0.050
	UG-2	Apr-13	FD		< 0.0500	< 0.053
	UG-2	Apr-13			< 0.0500	< 0.052
	UG-2	Apr-14			< 0.0100	< 0.020
	UG-3R	Apr-12	FD		< 0.0500	< 0.050
	UG-3R	Apr-12			< 0.0500	< 0.050
	UG-3R	Apr-13			< 0.0500	< 0.053
	UG-3R	Apr-14	FD		< 0.0100	< 0.020
	UG-3R	Apr-14			< 0.0100	< 0.020

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
Crossgradient	KWB-13	Apr-12		< 0.00500	0.0175	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0136	0.0181
	KWB-13	Apr-13		< 0.0100	0.0232	< 0.00500	0.932	< 0.00500	0.0208	< 0.000200	< 0.0100	0.0165	0.0206
	KWB-13	Apr-14		0.00259 J	0.0145	0.00121 J	< 0.0500	< 0.000700	< 0.00250	< 0.0000400	< 0.00100	0.0126	0.0172
	MW-17	Apr-14		< 0.00200	0.0152	< 0.00200	< 0.100	0.00724 J	< 0.00500			0.0104	
	NP-5	Apr-12	FD	< 0.00500	0.00862	< 0.00500	< 0.200	< 0.00500	< 0.00500			0.0192	
	NP-5	Apr-12		< 0.00500	0.00801	< 0.00500	< 0.200	< 0.00500	< 0.00500			0.0199	
	NP-5	Apr-13		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	< 0.0100			0.0135	
	RA-3156	Apr-14									< 0.000500		
	MW-10	Apr-12		0.0184	0.00995	< 0.00500	< 0.200	< 0.00500	2.03			< 0.00500	
	MW-10	Sep-12		0.0202	0.0112	< 0.00500	< 0.200	< 0.00500	2.34			0.00706	
EP	MW-10	Apr-13		< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	2.33			< 0.0250	
	MW-10	Nov-13		0.0219	0.0176	< 0.00500	< 0.200	< 0.00500	2.30			< 0.00500	
	MW-10	Apr-14		0.0211	0.0134	< 0.00200	< 0.100	< 0.00140	2.70			< 0.00200	
	MW-10	Nov-14		0.019	0.021	0.00092 JB	0.14	0.00098 J	2.4 V			0.0015 J	
	MW-11A	Apr-12		< 0.00500	0.0381	< 0.00500	12.6	< 0.0250	1.62			< 0.00500	
	MW-11A	Mar-13		< 0.0250	0.0294	< 0.0250	14.7	< 0.0250	1.67			< 0.0250	
	MW-11A	Apr-14		< 0.0100	0.0321	< 0.0100	2.50	< 0.00700	1.56			< 0.0100	
	MW-11B	Mar-13		< 0.0250	< 0.0250	< 0.0250	3.25	< 0.0250	0.316			< 0.0250	
	MW-12	Apr-14		< 0.00500	0.0194	< 0.00500	0.441 J	< 0.00140	0.200			0.0172 J	
	MW-120	Oct-13		0.0214	0.0225	< 0.00500	2.90	< 0.00500	1.18			0.0371	
	MW-120	Apr-14		0.0307	0.0335	0.00217 J	8.09	0.00213 J	1.19			< 0.00200	
	MW-120	Nov-14		0.026	0.018	0.0010	12	0.00064 J	1.5			0.038	
	MW-121	Oct-13		0.0401	0.0172	< 0.00500	0.913	< 0.00500	4.49			0.0102	
	MW-121	Apr-14		0.0465	0.0160	< 0.00100	0.963	< 0.000700	4.22			0.00446 J	
	MW-121	Nov-14		0.071	0.019	0.0014	2	0.00070 J	3.8			0.012	
	MW-122	Oct-13		0.00871	0.0317	< 0.00500	4.63	< 0.00500	1.43			< 0.00500	
	MW-122	Apr-14		0.00917 J	0.0406	< 0.00200	5.37	0.00144 J	2.09			< 0.00200	
	MW-122	Nov-14		0.018	0.034	0.0015	2.6	0.00036 J	1.1			0.04	
	MW-123	Nov-13	FD	0.0258	0.0368	< 0.0100	0.676	< 0.00500	3.02			< 0.0100	
	MW-123	Nov-13		0.0303	0.0563	< 0.00500	1.06	< 0.00500	2.92			< 0.00500	
	MW-123	Apr-14		0.0226	0.0175	< 0.00200	0.102 J	< 0.00140	2.66			< 0.00200	
	MW-123	Nov-14		0.023	0.027	0.00093 JB	0.3	0.00075 J	2.7			0.0013 J	
	MW-124	Nov-13		< 0.0100	0.0527	< 0.0100	1.41	< 0.0100	0.592			< 0.0100	
	MW-124	Apr-14		0.00952 J	0.0216	< 0.00200	2.48	< 0.00140	0.479			< 0.00200	
	MW-124	Nov-14		0.0052	0.027	0.00086 JB	2.7	0.00051 J	1.1			0.00093 J	
	MW-13	Apr-14		0.00205 J	0.0310	< 0.00200	< 0.100	< 0.00140	0.192			< 0.00200	
	MW-15	Apr-12	FD	0.0424	0.0178	< 0.00500	< 0.200	< 0.00500	1.21			< 0.00500	
	MW-15	Apr-12		0.0392	0.0163	< 0.00500	< 0.200	< 0.00500	1.16			< 0.00500	
	MW-15	Mar-13		0.0337	0.0218	< 0.0100	< 0.400	< 0.0100	1.77			< 0.0100	
	MW-15	Apr-14		0.0605	0.0217	0.00381 J	< 0.100	< 0.00140	0.363			0.00535 J	
	MW-18A	Apr-12		< 0.0100	0.0217	< 0.0100	0.777	< 0.0100	1.52	< 0.000200	0.0101	< 0.0100	< 0.0100
	MW-18A	Sep-12		< 0.0250	< 0.0250	< 0.0250	6.37	< 0.0250	1.93	< 0.000200	< 0.0250	< 0.0250	< 0.0250
	MW-18A	Apr-13		< 0.0250	< 0.0250	< 0.0250	10.7	< 0.0250	3.02	< 0.000200	< 0.0250	< 0.0250	< 0.0250
	MW-18A	Nov-13	FD	0.00545	0.0168	< 0.00500	0.377	< 0.00500	0.597	< 0.000200	< 0.00500	0.0725	0.00556
	MW-18A	Nov-13		0.00537	0.0173	< 0.00500	0.361	< 0.00500	0.580	< 0.000200	< 0.00500	0.0758	0.00506

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
EP	MW-18A	Apr-14		< 0.0100	0.0135	< 0.0100	< 0.500	< 0.00700	0.189	< 0.0000400	< 0.0100	< 0.0100	< 0.00900
	MW-18A	Nov-14		0.0034	0.016	0.00080 JB	1.1	0.00030 J	0.076	< 0.000049	0.0065 B	0.0069	0.0047 J
	MW-18B	Apr-13		< 0.0100	0.0126	< 0.0100	< 0.400	< 0.0100	0.572			< 0.0100	
	MW-1R	Apr-12		< 0.00500	0.0197	< 0.00500	2.18	< 0.00500	1.56			< 0.00500	
	MW-1R	Apr-13	FD	< 0.0250	< 0.0250	< 0.0250	1.64	< 0.0250	1.59			< 0.0250	
	MW-1R	Apr-13		< 0.0250	< 0.0250	< 0.0250	1.77	< 0.0250	1.64			< 0.0250	
	MW-1R	Apr-14		0.00335 J	0.0214	< 0.00200	2.39	< 0.00140	1.38			< 0.00200	
	MW-22A	Apr-12		0.0430	0.0155	< 0.00500	3.92	< 0.00500	4.63			< 0.00500	
	MW-22A	Sep-12		0.0552	0.0175	< 0.00500	6.10	< 0.00500	5.82			0.00639	
	MW-22A	Apr-13		0.0471	< 0.0250	< 0.0250	3.81	< 0.0250	5.72			< 0.0250	
	MW-22A	Nov-13		0.0610	0.0216	< 0.00500	3.13	< 0.0100	4.39			< 0.00500	
	MW-22A	Apr-14		0.0568	0.0153	< 0.00200	2.19	< 0.00140	3.61			< 0.00200	
	MW-22A	Nov-14	FD	0.064	0.018 J	0.0030 J	8.1	< 0.0012	6.3			< 0.0019	
	MW-22A	Nov-14		0.06	0.019	0.00081 JB	6.9	< 0.00024	6			0.0016 J	
	MW-22B	Apr-13		0.0343	< 0.0250	< 0.0250	1.78	< 0.0250	3.37			< 0.0250	
	MW-2A	Mar-12		0.0179	0.0145	< 0.00500	2.33	< 0.00500	1.61			< 0.00500	
	MW-2A	Sep-12		0.0467	0.0145	< 0.00500	6.25	< 0.00500	0.754			< 0.00500	
	MW-2A	Mar-13		0.0505	0.0246	< 0.00500	6.75	< 0.00500	2.70			< 0.00500	
	MW-2A	Nov-13		0.0205	0.0225	< 0.00500	0.437	< 0.00500	0.920			0.00569	
	MW-2A	Apr-14		0.0194 J	0.0222 J	< 0.00500	0.737 J	< 0.00350	1.21			< 0.00500	
	MW-2A	Nov-14		0.048	0.026	0.0078	3.1	< 0.0012	1.5			0.0051 J	
	MW-3	Mar-12		0.0591	0.0156	< 0.00500	1.54	< 0.00500	1.40			< 0.00500	
	MW-3	Sep-12		0.0406	0.0168	< 0.00500	0.708	< 0.00500	1.48			0.00566	
	MW-3	Mar-13		0.0324	0.0148	< 0.00500	0.706	< 0.00500	1.35			0.00733	
	MW-3	Nov-13		0.0357	0.0209	< 0.00500	0.333	< 0.00500	0.556			0.0472	
	MW-3	Apr-14		0.0298	0.0185	< 0.00200	< 0.100	< 0.00140	0.254			0.0458	
	MW-3	Nov-14		0.035	0.022 J	0.0081	0.57	< 0.0012	2.2			0.019	
	MW-3	Nov-14	FD	0.029	0.022 J	0.0060	0.34 J	< 0.0012	2.5			0.023	
	MW-4A	Apr-12		0.0920	0.0123	< 0.00500	1.82	< 0.00500	1.72			< 0.00500	
	MW-4A	Sep-12		0.130	0.0139	< 0.00500	3.18	< 0.00500	1.95			< 0.00500	
	MW-4A	Apr-13		0.0636	< 0.0250	< 0.0250	1.57	< 0.0250	1.88			< 0.0250	
	MW-4A	Nov-13		0.0724	0.0161	< 0.0100	0.672	< 0.0100	2.36			< 0.0100	
	MW-4A	Apr-14		0.147	0.0121	< 0.00200	2.31	< 0.00140	2.24			< 0.00200	
	MW-4A	Nov-14		0.057	0.014 J	< 0.0027	0.82	< 0.0012	2.7			< 0.0019	
	MW-4B	Apr-13		0.0371	< 0.0250	< 0.0250	< 1.00	< 0.0250	1.30			< 0.0250	
	MW-5A	Apr-12		0.220	0.0144	< 0.00500	12.1	< 0.0100	1.13			< 0.00500	
	MW-5A	Sep-12		0.143	< 0.0250	< 0.0250	6.28	< 0.0250	1.56			< 0.0250	
	MW-5A	Apr-13		0.201	< 0.0250	< 0.0250	11.0	< 0.0250	1.10			< 0.0250	
	MW-5A	Nov-13		0.0970	< 0.0250	< 0.0250	5.79	< 0.0250	1.78			< 0.0250	
	MW-5A	Apr-14		0.106	0.0142 J	< 0.00500	7.10	< 0.00350	1.74			< 0.00500	
	MW-5A	Nov-14		0.064	0.014 J	< 0.0027	4.4	< 0.0012	2			0.0040 J	
	MW-5B	Apr-13		0.122	< 0.0250	< 0.0250	< 1.00	< 0.0250	2.44			< 0.0250	
	MW-5C	Apr-13		0.0139	0.0166	< 0.0100	1.04	< 0.0100	0.943			< 0.0100	
	MW-6A	Mar-12		0.00771	0.0135	< 0.00500	0.532	< 0.00500	0.228			< 0.00500	
	MW-6A	Mar-13		0.00788	0.0143	< 0.00500	0.660	< 0.00500	0.277			< 0.00500	

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
EP	MW-6A	Apr-14		0.0113	0.0287	0.00234 J	< 0.100	< 0.00140	1.37			0.0192	
	MW-6B	Mar-13	FD	0.0537	0.0163	< 0.00500	1.69	< 0.00500	2.43			< 0.00500	
	MW-6B	Mar-13		0.0493	0.0139	< 0.00500	1.54	< 0.00500	2.39			< 0.00500	
	MW-70	Apr-12		0.0195	0.0152	< 0.00500	1.71	< 0.00500	0.382			< 0.00500	
	MW-70	Sep-12		0.0205	0.0163	< 0.00500	3.33	< 0.00500	0.222			0.00570	
	MW-70	Apr-13		< 0.0250	< 0.0250	< 0.0250	2.49	< 0.0250	0.461			< 0.0250	
	MW-70	Nov-13		0.0218	0.0210	< 0.00500	2.02	< 0.00500	0.552			< 0.00500	
	MW-70	Apr-14		0.0286	0.0157	< 0.00200	3.36	< 0.00140	0.262			< 0.00200	
	MW-70	Nov-14		0.021	0.02	0.00055 J	2.5	< 0.00024	0.73			0.00044 J	
	MW-72	Mar-12		0.0599	0.0134	< 0.00500	19.5	< 0.00500	5.46			< 0.00500	
	MW-72	Sep-12		0.108	0.0189	< 0.00500	27.6	< 0.00500	4.85			< 0.0100	
	MW-72	Mar-13		0.0625	< 0.0250	< 0.0250	23.4	< 0.0250	5.67			< 0.0250	
	MW-72	Nov-13		0.0929	0.0186	< 0.0100	20.9	< 0.00500	5.26			< 0.0100	
	MW-72	Apr-14		0.0480	0.0154	< 0.00100	7.13	< 0.000700	5.69			< 0.00100	
	MW-73	Mar-12		0.105	0.00967	< 0.00500	5.90	< 0.00500	2.85			< 0.00500	
	MW-73	Sep-12		0.112	0.0130	< 0.00500	9.14	< 0.00500	2.93			< 0.0100	
	MW-73	Mar-13		0.109	< 0.0250	< 0.0250	8.38	< 0.0250	2.87			< 0.0250	
	MW-73	Oct-13		0.108	0.0120	< 0.00500	9.29	< 0.00500	3.09			< 0.00500	
	MW-73	Apr-14		0.0982	0.0132 J	< 0.00500	5.71	< 0.00350	2.77			< 0.00500	
	MW-74	Mar-12		0.118	0.0147	< 0.00500	2.01	< 0.00500	2.61			0.00813	
	MW-74	Sep-12		0.113	0.0174	< 0.00500	1.17	< 0.00500	2.99			0.0143	
	MW-74	Mar-13		0.118	< 0.0250	< 0.0250	1.64	< 0.0250	2.78			< 0.0250	
	MW-74	Oct-13		0.0625	0.0150	< 0.00500	0.948	< 0.00500	0.915			0.285	
	MW-74	Apr-14		0.0599	0.0137 J	< 0.00500	< 0.250	< 0.00350	1.18			0.193	
	MW-74	Nov-14		0.062	0.014	0.00074 JB	0.11	< 0.00024	0.88			0.25	
	MW-75	Mar-12		0.215	0.0143	< 0.00500	1.95	< 0.00500	0.793 J			< 0.00500	
	MW-75	Sep-12		0.333	0.0154	< 0.00500	2.74	< 0.00500	0.892			< 0.00500	
	MW-75	Mar-13		0.219	< 0.0250	< 0.0250	1.97	< 0.0100	0.852			< 0.0250	
	MW-75	Oct-13		0.368	0.0161	< 0.00500	3.59	< 0.00500	0.950			< 0.00500	
	MW-75	Apr-14		0.299	0.0166	0.00221 J	4.01	< 0.00140	1.10			0.00288 J	
	MW-75	Nov-14		0.35	0.016	0.0019	4.2	0.00029 J	0.96			0.0025	
	MW-76	Mar-12		0.0573	0.0115	< 0.00500	2.19	< 0.00500	0.552			< 0.00500	
	MW-76	Sep-12		0.0807	0.0154	< 0.00500	3.25	< 0.00500	0.614			< 0.00500	
	MW-76	Mar-13		0.0607	< 0.0250	< 0.0250	2.88	< 0.0100	0.666			< 0.0250	
	MW-76	Oct-13		0.118	0.0185	< 0.00500	5.81	< 0.00500	1.72			< 0.00500	
	MW-76	Apr-14		0.0712	0.0151	0.00181 J	4.00	< 0.000700	1.06			0.00301 J	
	MW-76	Nov-14		0.1	0.018	0.0027	5.1	0.00046 J	1.8			0.0049	
	MW-77	Mar-12		0.0716	0.0118	< 0.00500	2.30	< 0.00500	0.662 J	< 0.000200	0.00985	< 0.00500	< 0.00500
	MW-77	Sep-12		0.0656	0.0133	0.00894	6.41	< 0.00500	0.832	< 0.000200	0.0175	0.0137	0.00656
	MW-77	Mar-13		0.0611	< 0.0250	< 0.0250	3.88	< 0.0100	0.820	< 0.000200	< 0.0250	< 0.0250	< 0.0250
	MW-77	Oct-13	FD	0.0719	0.0133	0.00591	6.00	< 0.00500	0.908	< 0.000200	0.0136	0.0103	0.00750
	MW-77	Oct-13		0.0693	0.0130	0.00636	6.01	< 0.00500	1.08	< 0.000200	0.0150	0.00923	0.00746
	MW-77	Apr-14		0.0765	0.0138	0.00884 J	9.80	< 0.000700	1.06			0.0113	
	MW-77	Nov-14		0.054	0.013 J	0.0097	9.8	0.0013 J	0.77			0.021	
	MW-78	Mar-12		0.0217	0.0217	0.0251	4.61	< 0.00500	0.736			< 0.00500	

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
EP	MW-78	Mar-13		< 0.0250	0.0284	0.0843	< 1.00	< 0.00500	0.491			< 0.0250	
	MW-78	Apr-14		0.0217	0.0388	0.0476	7.58	0.00107 J	1.46			0.0105	
	MW-79	Mar-12		0.0116	0.0132	< 0.00500	0.200	< 0.00500	3.11			< 0.00500	
	MW-79	Sep-12	FD	0.0271	0.0185	< 0.00500	< 0.200	< 0.00500	2.55			< 0.00500	
	MW-79	Sep-12		0.0269	0.0190	< 0.00500	< 0.200	< 0.00500	2.45			< 0.00500	
	MW-79	Mar-13		< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0100	4.18			< 0.0250	
	MW-79	Oct-13		0.0114	0.0213	< 0.0100	< 0.400	< 0.0100	3.42			< 0.0100	
	MW-79	Apr-14		0.0188	0.0138	< 0.00200	0.108 J	< 0.00140	1.34			0.00675 J	
	MW-79	Nov-14		0.0073	0.02	0.00065 JB	0.23	< 0.00024	4			0.0017 J	
	MW-7A	Apr-12		0.0261	0.0145	< 0.00500	5.77	< 0.00500	0.428			< 0.00500	
	MW-7A	Sep-12		0.0265	0.0146	< 0.0100	3.81	< 0.0100	0.547			< 0.0100	
	MW-7A	Apr-13		0.0272	< 0.0250	< 0.0250	6.05	< 0.0250	0.422			< 0.0250	
	MW-7A	Nov-13		0.0242	0.0181	< 0.0100	1.53	< 0.0100	0.465			< 0.0100	
	MW-7A	Apr-14		0.0256	0.0152	< 0.00200	2.99	< 0.00140	0.509			< 0.00200	
	MW-7A	Nov-14	FD	0.02	0.017 J	< 0.0027	1.5	< 0.0012	1.6			< 0.0019	
	MW-7A	Nov-14		0.021	0.018 J	0.0027 J	1.3	< 0.0012	1.5			< 0.0019	
	MW-7B	Apr-13		< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	0.397			< 0.0250	
	MW-80	Mar-12		0.00595	0.0155	< 0.00500	0.951	< 0.00500	1.54			< 0.00500	
	MW-80	Mar-13		< 0.0250	< 0.0250	< 0.0250	1.31	< 0.0100	0.583			< 0.0250	
	MW-80	Apr-14		0.0143	0.0160	< 0.00200	2.10	< 0.00140	0.703			< 0.00200	
	MW-81	Mar-12		0.00882	0.0176	< 0.00500	< 0.200	< 0.00500	1.67 J			< 0.00500	
	MW-81	Mar-13	FD	< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0100	2.08			< 0.0250	
	MW-81	Mar-13		< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0100	2.14			< 0.0250	
	MW-81	Apr-14		0.0188	0.0162	< 0.00200	< 0.100	< 0.00140	0.137			0.00757 J	
	MW-82	Mar-12		0.126	0.0183	< 0.00500	2.23	< 0.00500	1.31			< 0.00500	
	MW-82	Mar-13		0.105	< 0.0250	< 0.0250	1.80	< 0.0250	1.55			< 0.0250	
	MW-82	Apr-14	FD	0.126	0.0210	< 0.00200	2.73	< 0.00140	1.36			< 0.00200	
	MW-82	Apr-14		0.133	0.0210	< 0.00200	3.06	0.000773 J	1.33			< 0.00200	
	MW-83	Mar-12		0.141	0.0153	< 0.00500	6.65	< 0.00500	0.522			< 0.00500	
	MW-83	Sep-12		0.0446	0.0271	< 0.00500	3.39	< 0.00500	0.611			0.0111	
	MW-83	Mar-13		0.0441	< 0.0250	< 0.0250	1.53	< 0.0100	0.495			< 0.0250	
	MW-83	Oct-13		0.0407	0.0311	< 0.00500	17.0	< 0.0100	1.79			0.00970	
	MW-83	Apr-14		0.0388	0.0197	0.00430 J	4.65	0.000914 J	0.986			0.00977	
	MW-83	Nov-14		0.03	0.046	0.0089	12	0.00037 J	0.7			0.0075	
	MW-84	Mar-12	FD	0.0903	0.0137	< 0.00500	0.721	< 0.00500	2.55			< 0.00500	
	MW-84	Mar-12		0.0783	0.0134	< 0.00500	0.636	< 0.00500	2.41			< 0.00500	
	MW-84	Sep-12		0.147	0.0167	< 0.00500	7.05	< 0.00500	2.75			0.00537	
	MW-84	Mar-13		0.0950	< 0.0250	< 0.0250	1.23	< 0.0250	2.61			< 0.0250	
	MW-84	Oct-13		0.108	0.0211	0.0117	5.97	< 0.0100	3.90			0.0139	
	MW-84	Apr-14		0.114	0.0144	0.00416 J	3.21	< 0.000700	3.58			0.00577 J	
	MW-84	Nov-14		0.083	0.029	0.019 B	1.6	< 0.00024	3.6			0.014	
	MW-87	Apr-12		0.00778	0.0147	< 0.00500	< 0.200	< 0.0100	0.238			< 0.00500	
	MW-87	Sep-12		0.00874	0.0161	< 0.00500	< 0.200	< 0.00500	1.25			< 0.00500	
	MW-87	Apr-13		< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	0.0396			< 0.0250	
	MW-87	Nov-13		< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	2.95			< 0.0250	

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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
EP	MW-87	Apr-14		0.00862 J	0.0168	0.00290 J	0.789	< 0.00140	0.103			< 0.00200	
	MW-87	Nov-14		0.0024	0.027	0.00082 JB	0.2	< 0.00024	1.5			0.0014 J	
	MW-88	Apr-12		0.00983	0.0111	< 0.00500	< 0.200	< 0.00500	0.672			< 0.00500	
	MW-88	Sep-12		0.0104	0.0118	< 0.00500	< 0.200	< 0.00500	0.693			< 0.00500	
	MW-88	Apr-13		< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	0.767			< 0.0250	
	MW-88	Nov-13		0.0136	0.0163	< 0.00500	< 0.200	< 0.0100	2.53			< 0.00500	
	MW-88	Apr-14		0.0106	0.0115	< 0.00200	< 0.100	< 0.00140	0.796			< 0.00200	
	MW-88	Nov-14		0.012	0.021	< 0.00054	1.4	< 0.00024	1.6			0.0015 J	
	OCD-1R	Mar-12		0.00866	0.0189	< 0.00500	4.21	< 0.00500	2.07			< 0.00500	
	OCD-1R	Sep-12		0.0165	0.0228	< 0.00500	4.56	< 0.00500	2.95			< 0.0100	
	OCD-1R	Nov-13		0.0116	0.0200	< 0.00500	0.310	< 0.00500	0.505			0.0378	
	OCD-1R	Apr-14		0.00833 J	0.0144 J	0.00407 J	0.650	< 0.00140	1.52			0.00892 J	
	OCD-1R	Nov-14		0.0071	0.02	0.00081 JB	0.34	< 0.00024	0.41			0.019	
	OCD-2A	Mar-12	FD	< 0.00500	0.0252	< 0.00500	4.11	< 0.00500	1.15			< 0.00500	
	OCD-2A	Mar-12		< 0.00500	0.0246	< 0.00500	4.00	< 0.00500	1.14			< 0.00500	
	OCD-2A	Sep-12		< 0.00500	0.0264	< 0.00500	4.96	< 0.00500	1.51			< 0.00500	
	OCD-2A	Mar-13		< 0.0100	0.0290	< 0.0100	6.45	< 0.0100	1.66			< 0.0100	
	OCD-2A	Nov-13		< 0.00500	0.0199	< 0.00500	< 0.200	< 0.00500	0.539			0.0169	
	OCD-2A	Apr-14		0.00332 J	0.0185	< 0.00200	0.425	< 0.00140	0.563			0.00245 J	
	OCD-2A	Nov-14		0.0021	0.023	0.00089 JB	0.71	< 0.00024	0.59			0.0075	
	OCD-3	Mar-12		< 0.00500	0.0216	< 0.00500	0.646	< 0.00500	0.369			< 0.00500	
	OCD-3	Sep-12		0.00571	0.0254	< 0.00500	2.48	< 0.00500	0.357			< 0.00500	
	OCD-3	Mar-13		< 0.00500	0.0226	< 0.00500	1.37	< 0.00500	0.404			< 0.00500	
	OCD-3	Nov-13		< 0.00500	0.0217	< 0.00500	0.361	< 0.00500	0.0464			0.00574	
	OCD-3	Apr-14		0.00631 J	0.0198	< 0.00200	1.69	< 0.00140	0.134			0.00206 J	
	OCD-3	Nov-14		0.0055 J	0.019 J	< 0.0027	2.2 V	< 0.0012	0.16 O1J5			0.0040 J	
	OCD-4	Mar-12		< 0.00500	0.0210	< 0.00500	4.22	< 0.00500	0.261			< 0.00500	
	OCD-4	Sep-12		< 0.0250	< 0.0250	< 0.0250	4.52	< 0.0250	0.321			< 0.0250	
	OCD-4	Mar-13		< 0.0250	< 0.0250	< 0.0250	5.20	< 0.0250	0.294			< 0.0250	
	OCD-4	Nov-13		< 0.00500	0.0259	< 0.00500	3.46	< 0.00500	0.323			< 0.00500	
	OCD-4	Apr-14		< 0.00500	0.0213	< 0.00500	3.13	< 0.00140	0.276			< 0.00500	
	OCD-4	Nov-14		0.0036 J	0.025	< 0.0027	3.8	< 0.0012	0.31			< 0.0019	
	OCD-5	Mar-12		< 0.00500	0.0233	< 0.00500	2.89	< 0.00500	0.368			< 0.00500	
	OCD-5	Sep-12		< 0.0250	< 0.0250	< 0.0250	4.34	< 0.0250	0.383			< 0.0250	
	OCD-5	Mar-13		< 0.0250	< 0.0250	< 0.0250	5.18	< 0.0250	0.339			< 0.0250	
	OCD-5	Nov-13		0.00598	0.0256	< 0.00500	2.43	< 0.00500	0.389			< 0.00500	
	OCD-5	Apr-14	FD	0.00491 J	0.0211	< 0.00200	1.28	< 0.00140	0.364			< 0.00200	
	OCD-5	Apr-14		0.00738 J	0.0206	< 0.00200	2.47	< 0.00140	0.411			< 0.00200	
	OCD-5	Nov-14		0.0099 J	0.028	< 0.0027	4.8	< 0.0012	0.36			< 0.0019	
	OCD-6	Mar-12		0.0376	0.0184	< 0.00500	12.6	< 0.00500	2.07			< 0.00500	
	OCD-6	Sep-12		0.0244	0.0188	< 0.00500	11.7	< 0.00500	2.27			< 0.00500	
	OCD-6	Mar-13		0.0358	< 0.0250	< 0.0250	12.5	< 0.0250	2.10			< 0.0250	
	OCD-6	Nov-13		0.0212	0.0205	< 0.00500	0.201	< 0.00500	1.05			< 0.00500	
	OCD-6	Apr-14		0.0160 J	0.0191 J	< 0.00500	2.56	< 0.00350	2.15			< 0.00500	
	OCD-6	Nov-14		0.014	0.024 J	0.0027 J	7.6	< 0.0012	1.2			< 0.0019	

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
EP	OCD-7AR	Mar-12		0.256	0.0160	< 0.00500	10.9	< 0.00500	3.17			< 0.00500	
	OCD-7AR	Sep-12		0.242	0.0154	< 0.00500	11.3	< 0.00500	3.33			< 0.00500	
	OCD-7AR	Mar-13		0.257	< 0.0250	< 0.0250	11.9	< 0.0250	3.48			< 0.0250	
	OCD-7AR	Nov-13		0.214	0.0171	< 0.00500	9.11	< 0.00500	3.49			0.00541	
	OCD-7AR	Apr-14	FD	0.165	0.0152	< 0.00200	8.08	< 0.00140	2.92			0.00356 J	
	OCD-7AR	Apr-14		0.158	0.0147	< 0.00200	7.59	< 0.00140	2.87			0.00425 J	
	OCD-7AR	Nov-14		0.11	0.015 J	< 0.0027	4.3	< 0.0012	2.4			0.0020 J	
	OCD-7B	Mar-13		< 0.00500	0.0160	< 0.00500	< 0.200	< 0.00500	0.0246			< 0.00500	
	OCD-8A	Apr-12		0.114	0.0139	< 0.00500	7.39	< 0.0100	3.31	< 0.000200	0.0196	< 0.00500	< 0.00500
	OCD-8A	Sep-12	FD	0.113	0.0143	< 0.0100	5.47	< 0.0100	3.17	< 0.000200	0.0119	< 0.0100	< 0.0100
	OCD-8A	Sep-12		0.111	0.0154	< 0.0100	5.64	< 0.0100	3.12	< 0.000200	0.0147	< 0.0100	< 0.0100
	OCD-8A	Apr-13	FD	0.130	< 0.0250	< 0.0250	9.16	< 0.0250	3.56	< 0.000200	< 0.0250	< 0.0250	< 0.0250
	OCD-8A	Apr-13		0.126	< 0.0250	< 0.0250	9.75	< 0.0250	3.78	< 0.000200	< 0.0250	< 0.0250	< 0.0250
	OCD-8A	Nov-13		0.0815	0.0410	< 0.0100	10.3	< 0.0100	3.00	< 0.000200	0.0172	< 0.0100	< 0.0100
	OCD-8A	Apr-14	FD	0.0683	0.0218	< 0.00200	7.73	< 0.00140	3.12	< 0.0000400	0.0279	< 0.00200	0.00219 J
	OCD-8A	Apr-14		0.0676	0.0230	< 0.00200	7.72	< 0.00140	3.14	< 0.0000400	0.0279	< 0.00200	0.00223 J
	OCD-8A	Nov-14		0.05	0.08	0.0072	13	< 0.0012	4.7	< 0.000049	0.062	< 0.0019	0.0065 J
	OCD-8B	Apr-13		< 0.0250	< 0.0250	< 0.0250	< 1.00	< 0.0250	0.417			< 0.0250	
	KWB-10R	Nov-14		0.036	3.4	0.0010	8.2	0.0042	0.19			0.00052 J	
Field E of Refinery	KWB-11A	Apr-12		< 0.00500	0.0205	< 0.00500	< 0.200	< 0.00500	0.0100	< 0.000200	< 0.00500	0.00778	0.0126
	KWB-11A	Oct-12		< 0.00500	0.0193	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0113	0.0119
	KWB-11A	Apr-13		< 0.00500	0.0213	< 0.00500	< 0.200	< 0.00500	0.0369	< 0.000200	< 0.00500	0.00826	0.0131
	KWB-11A	Nov-14	FD	0.0020	0.028	< 0.00054	< 0.05	0.0055	0.16	< 0.000049	0.0042	0.0082	0.012
	KWB-11A	Nov-14		0.0020	0.028	0.00076 JB	< 0.05	0.0061 B	0.16	< 0.000049	0.0039	0.0079	0.013
	KWB-11B	Apr-12		< 0.00500	0.0138	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.00945	0.00742
	KWB-11B	Oct-12		< 0.00500	0.0143	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0177	0.00798
	KWB-11B	Apr-13		< 0.00500	0.0169	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0114	0.00870
	KWB-11B	Apr-14		0.00157 J	0.0117	< 0.00100	< 0.0500	0.000903 J	< 0.00250	< 0.0000400	< 0.00100	0.00848	0.00741
	KWB-11B	Nov-14		0.0011 J	0.013	< 0.0027	< 0.05	0.00090 JB	0.0030 J	< 0.000049	< 0.00035	0.0073	0.0081
	KWB-12A	Oct-12		< 0.00500	0.0169	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.00709	0.0104
	KWB-12A	Oct-13		< 0.00500	0.0174	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.00570	0.0132
	KWB-12A	Nov-14		0.0014 J	0.017	0.00086 JB	< 0.05	< 0.00024	0.0011 J	< 0.000049	0.00074 J	0.0052	0.013
	KWB-12A	Nov-14	FD	0.0016 J	0.01	0.00060 J	< 0.05	< 0.00024	0.0016 J	< 0.000049	0.00065 J	0.0046	0.012
	KWB-12B	Apr-12		< 0.00500	0.0155	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500	0.0129
	KWB-12B	Oct-12	FD	< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	< 0.0100	< 0.000200	< 0.0100	< 0.0100	0.0120
	KWB-12B	Oct-12		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	< 0.0100	< 0.000200	< 0.0100	< 0.0100	0.0117
	KWB-12B	Apr-13	FD	< 0.00500	0.0108	< 0.00500	< 0.200	< 0.0100	< 0.00500	< 0.000200	< 0.00500	< 0.00500	0.0124
	KWB-12B	Apr-13		< 0.00500	0.0105	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500	0.0121
	KWB-12B	Oct-13		< 0.00500	0.00970	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500	0.0129
	KWB-12B	Apr-14	FD	0.00240 J	0.0108	< 0.00100	< 0.0500	< 0.000700	< 0.00250	< 0.0000400	< 0.00100	0.00363 J	0.0136
	KWB-12B	Apr-14		0.00286 J	0.00926	< 0.00100	< 0.0500	< 0.000700	< 0.00250	< 0.0000400	< 0.00100	0.00318 J	0.0130
	KWB-12B	Nov-14		0.0015 J	0.013	0.00086 JB	< 0.05	< 0.00024	0.0027 J	< 0.000049	0.00071 J	0.0042	0.013
	KWB-1A	Apr-12		< 0.00500	0.00804	< 0.00500	< 0.200	< 0.00500	0.285	< 0.000200	0.00766	< 0.00500	0.0184
	KWB-1A	Sep-12		< 0.00500	0.00880	< 0.00500	< 0.200	< 0.00500	0.311	< 0.000200	0.0121	< 0.00500	0.0192
	KWB-1A	Apr-13		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	0.332	< 0.000200	< 0.0100	< 0.0100	0.0207

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
Field E of Refinery	KWB-1A	Oct-13		< 0.00500	0.0113	< 0.00500	< 0.200	< 0.00500	0.404	< 0.000200	0.00833	< 0.00500	0.0199
	KWB-1A	Apr-14		0.00441 J	0.0100	< 0.00100	0.0770 J	< 0.000700	0.371	< 0.0000400	0.00833	< 0.00100	0.0223
	KWB-1A	Nov-14		0.0035	0.0087	0.00069 JB	< 0.05	0.00029 JB	0.42	< 0.000049	0.0082	0.00076 J	0.037
	KWB-1C	Apr-13		< 0.0100	0.0146	< 0.0100	< 0.400	< 0.0100	< 0.0100			< 0.0100	
	KWB-7	Apr-12		< 0.00500	0.0359	< 0.00500	< 0.200	< 0.00500	1.67	< 0.000200	0.0222	< 0.00500	0.0176
	KWB-7	Oct-12		< 0.00500	0.0346	< 0.00500	< 0.200	< 0.0100	2.12	< 0.000200	0.0294	0.00791	0.0184
	KWB-7	Apr-13		< 0.00500	0.0646	< 0.00500	1.09	< 0.00500	1.78	< 0.000200	0.0237	< 0.00500	0.0139
	KWB-7	Nov-14		0.02	0.079	0.00082 JB	0.81	0.0015 JB	4.9	< 0.000049	0.037	0.00064 J	0.0012 J
	MW-57	Apr-12		0.0224	0.360	0.0174	14.5	0.0102	0.865			0.00779	
	MW-57	Oct-12		< 0.0100	0.0231	< 0.0100	< 0.400	< 0.0250	0.0589			0.0468	
	MW-57	Apr-13		0.0142	0.0264	0.00881	0.873	< 0.00500	0.516			< 0.00500	
	MW-57	Oct-13		0.0438	0.0669	< 0.00500	2.80	< 0.00500	2.03			< 0.00500	
	MW-57	Apr-14		0.0889	2.17	0.0456	38.8	0.0269	2.73			0.00342 J	
	MW-57	Nov-14		0.0055	0.052	0.0015	1	0.0019 J	1.3			0.0088	
	MW-58	Oct-13		0.0511	0.681	< 0.00500	1.81	< 0.00500	0.881	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-58	Nov-14		0.0078	0.67	0.00083 J	0.66	0.0058	0.094	< 0.000049	0.0015 J	0.00040 J	0.0043 J
	MW-111	Apr-13		0.0136	0.166	< 0.00500	6.18	< 0.00500	1.86	< 0.000200	0.00701	< 0.00500	< 0.00500
	MW-111	Oct-13		0.0114	0.211	< 0.00500	7.88	< 0.00500	1.72			< 0.00500	
	MW-111	Apr-14		0.0114	0.254	0.00252 J	7.64	0.000856 J	1.57			< 0.00100	
	MW-111	Nov-14		0.014	0.22	0.0024	8	0.0013 J	1.6			0.00046 J	
	MW-112	Nov-14		0.0050		0.0021	5.8	0.0013 J	0.31			0.0018 J	
	MW-113	Apr-13		< 0.00500	0.0405	< 0.00500	0.375	< 0.00500	0.389	< 0.000200	< 0.00500	< 0.00500	0.0116
	MW-113	Oct-13		< 0.00500	0.0259	< 0.00500	0.261	< 0.00500	0.404			< 0.00500	
	MW-113	Apr-14		0.00326 J	0.0882	0.00423 J	1.87	0.00211 J	0.408			< 0.00200	
	MW-113	Nov-14	FD	0.0093	0.048	< 0.00054	0.7	< 0.00024	1.9			0.00070 J	
	MW-113	Nov-14		0.0088	0.047	0.00059 J	0.68	0.00025 J	1.9			0.00044 J	
	MW-125	Apr-14		0.00471 J	0.0110	< 0.00100	0.0544 J	< 0.000700	0.470			< 0.00100 B	
	MW-125	Nov-14		0.0036	0.0092	0.00056 J	< 0.05	< 0.00024	0.42			0.0033	
	MW-126A	Apr-14		0.00322 J	0.0163	0.00131 J	0.463	0.00132 J	0.194			0.00175 J	
	MW-126A	Nov-14		0.0021	0.028	0.0017	1.7	0.0010 J	0.79			0.00053 J	
	MW-126B	Apr-14		0.00299 J	0.0182	< 0.00100	1.32	< 0.000700	0.918			< 0.00100	
	MW-126B	Nov-14		0.0039	0.017	0.0013	0.39	0.00064 J	0.098			0.0026	
	MW-127	Apr-14		0.00433 J	0.785	0.00192 J	1.66	0.000968 J	0.156			< 0.00100	
	MW-127	Nov-14		0.0064	1.2	0.0035	3.9	0.0020	0.14			0.0012 J	
	MW-128	Apr-14		0.0549	0.0867	0.00181 J	3.53	0.00132 J	2.33			< 0.00100	
	MW-128	Nov-14		0.062	0.094	0.0051	5	0.013	2.6			0.0012 J	
	MW-129	Nov-14		0.027	0.66	0.0045	7.8	0.0044	1.2			0.0032	
	MW-131	Apr-14		0.0196	2.37	0.00159 J	2.25	0.00106 J	0.378			< 0.00100	
	MW-131	Nov-14		0.023	2.6	0.0028	3.8	0.0014 J	0.36			0.00050 J	
	MW-133	Nov-14		0.019	0.13	0.00060 J	3.5	0.00080 J	0.38			< 0.00038	
	MW-134	Apr-14		0.00701 J	0.0168	< 0.00200	0.581	< 0.00140	0.0310			0.00570 J	
	MW-134	Nov-14		0.0059	0.015	0.0024	0.36	0.00024 J	0.031			0.012	
	MW-135	Apr-14		0.00454 J	0.0856	0.00467 J	1.68	0.00227 J	0.0799			0.0344	
	MW-135	Nov-14		0.0088	0.41	0.018	9.6	0.01	0.42			0.038	
	RA-4196	Apr-12				< 0.00500							

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
Field E of Refinery	RA-4196	Apr-14									< 0.000500		
	RA-4798	Apr-14	FD								0.00136 J		
	RA-4798	Apr-14									0.000731 J		
	RW-18	Apr-12	FD	< 0.00500	0.0105	< 0.00500	< 0.200	< 0.00500	< 0.00500			0.00560	
	RW-18	Apr-12		< 0.00500	0.00967	< 0.00500	< 0.200	< 0.00500	< 0.00500			0.00583	
	RW-18	Apr-13		< 0.0100	0.0150	< 0.00500	0.496	< 0.00500	< 0.00500			0.0124	
	RW-18	Apr-14		0.00496 J	0.0137	< 0.00200	0.295 J	< 0.00140	0.00572 J			0.0110	
N Refinery	MW-23	Apr-12		0.0124	10.9	< 0.00500	< 0.200	< 0.00500	0.0876			< 0.00500	
	MW-23	Oct-12		0.0111	8.10	< 0.00500	< 0.200	< 0.00500	0.0902			< 0.00500	
	MW-23	Apr-13		0.00869	9.65	< 0.00500	< 0.200	< 0.00500	0.0959			< 0.00500	
	MW-23	Oct-13		0.0103	8.01	< 0.00500	< 0.200	< 0.00500	0.104			< 0.00500	
	MW-23	Apr-14		0.00898	9.23	< 0.00100	< 0.0500	0.00224 J	0.0877			0.00280 J	
	MW-23	Nov-14		0.022	0.1	0.0014 B	0.059 J	0.00075 J	0.21			0.0020 J	
	MW-29	Apr-12		< 0.00500	0.0206	< 0.00500	< 0.200	< 0.00500	0.438			< 0.00500	
	MW-29	Oct-12		< 0.00500	0.0185	< 0.00500	< 0.200	< 0.00500	0.318			< 0.0100	
	MW-29	Apr-13		0.0140	0.0164	< 0.0100	< 0.400	< 0.0100	0.527			< 0.0100	
	MW-29	Oct-13		< 0.00500	0.0166	< 0.00500	< 0.200	< 0.00500	0.311			< 0.00500	
	MW-29	Apr-14		0.00836	< 0.000900 B	< 0.00100	0.228	< 0.000700 B	0.558 J			0.00119 J	
	MW-29	Nov-14		0.00093 J	0.02	0.00062 JB	< 0.05	0.00037 J	0.47			0.00063 J	
	MW-39	Oct-13		0.0147	0.0220	< 0.00500	< 0.200	< 0.00500	0.0383			< 0.00500	
	MW-40	Apr-12		< 0.00500	0.0258	< 0.00500	< 0.200	< 0.00500	0.0549			< 0.00500	
	MW-40	Apr-13		< 0.0100	0.0284	< 0.0100	< 0.400	< 0.00500	0.0479			< 0.0100	
	MW-40	Apr-14		0.00157 J	0.0278	< 0.00100	< 0.0500	< 0.000700	0.0451			0.00202 J	
	MW-41	Apr-12		0.00937	0.0167	< 0.00500	< 0.200	< 0.00500	0.812			< 0.00500	
	MW-41	Oct-12		0.0126	0.0183	< 0.00500	0.274	< 0.00500	1.00			< 0.00500	
	MW-41	Apr-13		0.00746	0.0165	< 0.00500	< 0.200	< 0.00500	0.791			< 0.00500	
	MW-41	Oct-13		0.00849	0.0160	< 0.00500	< 0.200	< 0.00500	0.832			< 0.00500	
	MW-41	Apr-14		0.00475 J	0.0140	< 0.00100	0.0729 J	< 0.000700	0.854			0.00163 J	
	MW-42	Apr-12		0.0120	0.0284	< 0.00500	0.636	< 0.00500	0.238			< 0.00500	
	MW-42	Oct-12		0.0137	0.0237	< 0.00500	0.639	< 0.00500	0.263			< 0.00500	
	MW-42	Apr-13		0.0144	0.0285	< 0.0100	0.475	< 0.00500	0.224			< 0.0100	
	MW-42	Oct-13		0.00973	0.0252	< 0.00500	0.213	< 0.00500	0.152			< 0.00500	
	MW-42	Apr-14		0.0120	0.0284	< 0.00100	0.527	0.000766 J	0.189			0.00168 J	
	MW-43	Apr-12		0.0104	0.417	< 0.00500	< 0.200	< 0.00500	0.332	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-43	Oct-12	FD	0.0112	0.332	< 0.00500	< 0.200	< 0.00500	0.348	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-43	Oct-12		0.0104	0.329	< 0.00500	< 0.200	< 0.00500	0.354	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-43	Apr-13		0.0102	0.102	< 0.00500	< 0.200	< 0.00500	0.439	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-43	Oct-13	FD	0.0106	0.480	< 0.00500	< 0.200	< 0.00500	0.279	< 0.000200	0.00529	< 0.00500	< 0.00500
	MW-43	Oct-13		0.0107	0.467	< 0.00500	< 0.200	< 0.00500	0.274	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-43	Apr-14		0.0106	0.103	< 0.00100	< 0.0500	< 0.000700	0.470		0.00617	0.00128 J	< 0.000900
	MW-43	Nov-14		0.0090	0.42	0.0013	< 0.05	0.0018 J	0.37	< 0.000049	0.0059	0.022 0.136	0.00062 J
	MW-59	Apr-12		0.0212	0.0146	< 0.00500	< 0.200	< 0.00500	0.525			< 0.00500	
	MW-59	Apr-13		0.0274	0.0168	< 0.00500	< 0.200	< 0.0100	0.506			< 0.00500	
	MW-59	Apr-14		0.0324	0.0144	< 0.00100	0.164 J	< 0.000700	0.464			0.00432 J	
	MW-60	Apr-12		0.00850	0.0239	< 0.00500	< 0.200	< 0.00500	0.297	< 0.000200	< 0.00500	< 0.00500	< 0.00500

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
N Refinery	MW-60	Oct-12	FD	0.0128	0.0188	< 0.00500	0.913	< 0.00500	0.368		0.00657	< 0.00500	< 0.00500
	MW-60	Oct-12		0.0152	0.0184	< 0.00500	1.05	< 0.00500	0.372		0.00528	< 0.00500	< 0.00500
	MW-60	Apr-13	FD	0.0133	0.0228	< 0.0100	< 0.400	< 0.0100	0.370	< 0.000200	< 0.0100	< 0.0100	< 0.0100
	MW-60	Apr-13		0.0124	0.0234	< 0.0100	< 0.400	< 0.00500	0.354	< 0.000200	< 0.0100	< 0.0100	< 0.0100
	MW-60	Oct-13	FD	0.00996	0.0222	< 0.00500	0.366	< 0.00500	0.398	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-60	Oct-13		0.0103	0.0207	< 0.00500	0.360	< 0.00500	0.402	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-60	Apr-14		0.00662	0.0191	< 0.00100	0.0539 J	< 0.000700	0.348		< 0.00100	< 0.00100	< 0.000900
	MW-60	Nov-14		0.0026	0.017	0.00065 J	0.065 J	0.00046 J	0.38	< 0.000049	0.0016 J	0.014	0.00029 J
	MW-61	Apr-12		< 0.00500	0.0258	< 0.00500	0.418	< 0.00500	0.0317			< 0.00500	
	MW-61	Oct-12		< 0.00500	0.0243	< 0.00500	< 0.200	< 0.00500	0.0236			< 0.00500	
	MW-61	Apr-13		< 0.00500	0.0255	< 0.00500	< 0.200	< 0.00500	0.0199			< 0.00500	
	MW-61	Oct-13		< 0.00500	0.0375	< 0.00500	< 0.200	< 0.00500	0.0224			< 0.00500	
	MW-61	Apr-14		0.00127 J	0.0305	< 0.00100	0.0734 J	< 0.000700 B	0.0226			< 0.00100	
	MW-61	Nov-14		0.0020	0.053	0.00081 J	< 0.05	0.0012 J	0.0044 J			0.0087	
	MW-62	Apr-12		< 0.00500	0.382	< 0.00500	< 0.200	< 0.00500	0.0204			< 0.00500	
	MW-62	Oct-12		< 0.00500	0.412	< 0.00500	< 0.200	< 0.00500	0.0182			< 0.00500	
	MW-62	Apr-13		< 0.00500	0.653	< 0.00500	< 0.200	< 0.00500	0.00805			< 0.00500	
	MW-62	Oct-13		< 0.00500	0.141	< 0.00500	< 0.200	< 0.00500	< 0.00500			< 0.00500	
	MW-62	Apr-14		0.00288 J	0.0679	< 0.00100	0.0711 J	< 0.000700	0.00786			0.00279 J	
	MW-62	Nov-14		0.01	9.3	0.0021	0.26	0.0098	0.1			0.0019 J	
	MW-67	Oct-13		< 0.00500	0.544	< 0.00500	< 0.200	< 0.00500	0.0771	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-67	Nov-14		0.0018 J	0.12	0.00074 J	< 0.05	0.00094 J	0.13	< 0.000049	0.0033	0.014	0.00036 J
	MW-90	Apr-12	FD	< 0.00500	0.0164	< 0.00500	< 0.200	< 0.00500	0.122			< 0.00500	
	MW-90	Apr-12		< 0.00500	0.0155	< 0.00500	< 0.200	< 0.00500	0.121			< 0.00500	
	MW-90	Oct-12		< 0.00500	0.0241	< 0.00500	0.262	< 0.00500	0.100			< 0.00500	
	MW-90	Apr-13		< 0.00500	0.0188	< 0.00500	< 0.200	< 0.00500	0.0647			< 0.00500	
	MW-90	Oct-13		0.00701	0.0248	< 0.00500	0.720	< 0.00500	0.337			< 0.00500	
	MW-90	Apr-14		0.00439 J	0.0183	< 0.00100	0.0589 J	0.000780 J	0.0745			< 0.00100	
	MW-90	Nov-14		0.011	0.014	0.00067 J	0.41	< 0.00024	0.052			0.021	
	MW-91	Oct-13	FD	< 0.00500	0.110	< 0.00500	< 0.200	< 0.00500	< 0.00500			< 0.00500	
	MW-91	Oct-13		< 0.00500	0.110	< 0.00500	< 0.200	< 0.00500	< 0.00500			< 0.00500	
	MW-91	Apr-14		0.00394 J	0.130	< 0.00100	0.117 J	0.00191 J	0.00450 J			< 0.00100	
	MW-91	Nov-14		0.0047	0.094	0.00099 J	< 0.05	0.0013 J	0.026			0.0098	
	MW-93	Apr-12		0.00686	0.0523	0.00671	< 0.200	< 0.00500	0.0261			< 0.00500	
	MW-93	Oct-12		0.00746	0.0559	< 0.00500	< 0.200	< 0.00500	0.0151			< 0.00500	
	MW-93	Apr-13		0.00737	0.0602	< 0.00500	< 0.200	< 0.00500	0.0192			< 0.00500	
	MW-93	Oct-13		0.00708	0.0835	< 0.00500	0.475	< 0.00500	0.183			0.00632	
	MW-93	Apr-14		0.00671	0.0823	0.00329 J	0.163 J	0.00288 J	0.0471			0.00282 J	
	MW-93	Nov-14		0.0030	0.052	0.0065	3.2	0.0054	1.3			0.013	
	MW-94	Nov-14		0.017	0.78	0.0014	0.081 J	< 0.00024	0.0065			0.0012 J	
	MW-95	Apr-12		< 0.00500	0.0847	< 0.00500	0.421	< 0.00500	0.122			< 0.00500	
	MW-95	Apr-13		< 0.00500	0.130	< 0.00500	1.02	< 0.00500	0.0567			< 0.00500	
	MW-95	Apr-14		< 0.00100	0.126	< 0.00100	0.0549 J	< 0.000700	0.0419			< 0.00100	
	MW-96	Apr-12		< 0.00500	0.0823	< 0.00500	0.451	< 0.00500	0.0197			< 0.00500	
	MW-96	Oct-12		0.00605	0.263	< 0.00500	0.459	< 0.00500	< 0.00500			< 0.00500	

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
N Refinery	MW-96	Apr-13		< 0.00500	0.147	< 0.00500	0.261	< 0.00500	< 0.00500			< 0.00500	
	MW-96	Oct-13		0.00531	0.105	< 0.00500	< 0.200	< 0.00500	0.00750			< 0.00500	
	MW-96	Apr-14		0.00469 J	0.109	< 0.00100	< 0.0500	< 0.000700	0.00250 J			< 0.00100	
	MW-96	Nov-14		0.0049	0.073	0.0021	0.37	0.00089 J	0.11			0.0019 J	
	MW-98	Apr-12		< 0.00500	0.0168	< 0.00500	< 0.200	0.0110	0.0312			< 0.00500	
	MW-98	Oct-12		< 0.00500	0.0161	< 0.00500	< 0.200	0.00937	0.0305			< 0.00500	
	MW-98	Apr-13		< 0.00500	0.0160	< 0.00500	< 0.200	0.0106	0.0287			< 0.00500	
	MW-98	Oct-13		< 0.00500	0.0179	< 0.00500	< 0.200	0.0100	0.0339			< 0.00500	
	MW-98	Apr-14	FD	0.00177 J	0.0145	< 0.00100	< 0.0500	0.00934	0.0267			0.00464 J	
	MW-98	Apr-14		0.00167 J	0.0156	< 0.00100	< 0.0500	0.00919	0.0259			0.00335 J	
	MW-98	Nov-14		0.00068 J	0.017	0.0011	0.064 J	0.0079	0.027			0.02	
	RW-9	Apr-12		< 0.00500	0.0218	< 0.00500	4.09	< 0.00500	0.243			< 0.00500	
	RW-9	Apr-13		< 0.0100	0.0703	< 0.0100	< 0.400	< 0.00500	0.288			< 0.0100	
	RW-9	Apr-14		0.00434 J	0.0470	< 0.00100	0.942	< 0.000700	0.417			0.00250 J	
	RW-10	Apr-12		0.00538	0.0823	< 0.00500	0.705	< 0.00500	0.208			< 0.00500	
	RW-10	Apr-13		< 0.00500	0.0215	< 0.00500	1.79	< 0.00500	0.224			< 0.00500	
	RW-10	Apr-14		0.00174 J	0.0185	< 0.00100	5.22	< 0.000700	0.217			0.00143 J	
	RW-16	Apr-13		0.0167	0.0163	< 0.00500	< 0.200	< 0.00500	0.485			< 0.00500	
	RW-16	Apr-14	FD	0.0132	0.0147	< 0.00100	0.184 J	< 0.000700	0.596			0.00278 J	
	RW-16	Apr-14		0.0127	0.0141	< 0.00100	0.174 J	0.000789 J	0.576			0.00272 J	
	RW-16A	Apr-12		0.0189	0.0185	< 0.00500	< 0.200	< 0.00500	0.121			0.0169	
	RW-17	Apr-13		0.0107	0.0244	< 0.00500	0.462	0.00563	0.704			< 0.00500	
	RW-17	Apr-14		0.00888	0.0228	< 0.00100	0.471	0.0190	0.675			0.00156 J	
	RW-17A	Apr-12		0.00645	0.0288	< 0.00500	0.664	< 0.00500	0.817			< 0.00500	
N RO Reject Field	MW-117	Apr-14		0.00366 J	0.0170	0.00210 J	0.780	0.00109 J	0.0330			< 0.00100 B	
	MW-117	Nov-14	FD	0.0024	0.016	0.0024	0.71	0.00086 J	0.014			0.0079	
	MW-117	Nov-14		0.0025	0.02	0.0031	0.95	0.00072 J	0.014			0.0077	
	MW-118	Apr-14		0.0109	0.0147	0.00312 J	0.952	0.00266 J	0.0526			< 0.00100	
	MW-118	Nov-14		0.012	0.033	0.0032	1.1	0.0010 J	0.02			0.0065	
	MW-119	Apr-14	FD	0.00446 J	0.0126	0.00114 J	0.341	< 0.000700	0.0136			< 0.00100 B	
	MW-119	Apr-14		0.00470 J	0.0126	0.00119 J	0.350	< 0.000700	0.0148			< 0.00100 B	
	MW-119	Nov-14		0.0062	0.06	0.0042	2.3	0.0016 J	0.062			0.0013 J	
NCL	MW-108	Apr-12		< 0.00500	0.0426	< 0.00500	< 0.200	< 0.00500	0.0277			< 0.00500	
	MW-108	Oct-12		< 0.00500	0.0467	< 0.00500	< 0.200	< 0.00500	0.0370			< 0.00500	
	MW-108	Apr-13		< 0.00500	0.0425	< 0.00500	0.261	< 0.00500	0.0195			< 0.00500	
	MW-108	Oct-13		0.00869	0.0792	0.00547	< 0.200	< 0.00500	0.0551			< 0.00500	
	MW-108	Apr-14		0.00320 J	0.0460	0.00333 J	0.310	0.00196 J	0.0338			0.00115 J	
	MW-108	Nov-14		0.0061	0.049	< 0.00054 B	< 0.05	< 0.00024 B	0.045			0.0012 J	
	MW-18	Apr-12		< 0.00500	0.0155	< 0.00500	< 0.200	< 0.00500	0.0299	< 0.000200	< 0.00500	0.00599	0.0155
	MW-18	Oct-12		0.00641	0.0244	< 0.00500	< 0.200	< 0.00500	0.0258	< 0.000200	< 0.00500	0.0166	0.0178
	MW-18	Apr-13	FD	0.00506	0.0183	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0126	0.0166
	MW-18	Apr-13		< 0.00500	0.0189	< 0.00500	< 0.200	< 0.00500	0.00548	< 0.000200	< 0.00500	0.0120	0.0164
	MW-18	Oct-13		< 0.00500	0.0250	< 0.00500	< 0.200	< 0.00500	0.0170	< 0.000200	< 0.00500	0.00853	0.0200
	MW-18	Apr-14		0.00313 J	0.0168	< 0.00100	0.146 J	< 0.000700	0.0203	< 0.0000400	0.00151 J	0.0112	0.0172
	MW-45	Apr-12		< 0.00500	0.0143	< 0.00500	1.22	< 0.00500	0.400	< 0.000200	0.00684	< 0.00500	< 0.00500

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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
NCL	MW-45	Oct-12		< 0.00500	0.0177	< 0.00500	0.826	< 0.00500	0.454	< 0.000200	0.00633	< 0.00500	< 0.00500
	MW-45	Apr-13		< 0.00500	0.0168	< 0.00500	0.839	0.00610	0.520	< 0.000200	0.00850	< 0.00500	< 0.00500
	MW-45	Oct-13		< 0.00500	0.0175	< 0.00500	0.861	0.00623	0.574	< 0.000200	0.00827	< 0.00500	< 0.00500
	MW-45	Apr-14		0.00268 J	0.0159	< 0.00100	0.786	0.00443 J	0.535	< 0.0000400	0.00736	0.00191 J	0.00217 J
	MW-45	Nov-14		0.0028	0.018	< 0.00054 B	0.82	< 0.00024 B	0.6	< 0.000049	0.0083	0.00071 J	0.00030 J
	MW-53	Apr-12		< 0.00500	0.0416	< 0.00500	0.357	< 0.00500	1.02			< 0.00500	
	MW-53	Apr-13		< 0.00500	0.0267	< 0.00500	< 0.200	< 0.0100	1.00			< 0.00500	
	MW-53	Apr-14		0.00217 J	0.0232	< 0.00100	< 0.0500	< 0.000700	0.778			0.00141 J	
	MW-54A	Apr-12		0.00584	0.0182	< 0.00500	< 0.200	< 0.00500	0.531			< 0.00500	
	MW-54A	Oct-12		< 0.00500	0.0228	< 0.00500	< 0.200	< 0.00500	0.537			< 0.00500	
	MW-54A	Apr-13		< 0.00500	0.0197	< 0.00500	< 0.200	< 0.00500	0.458			< 0.00500	
	MW-54A	Oct-13		< 0.00500	0.0192	< 0.00500	< 0.200	< 0.00500	0.516			< 0.00500	
	MW-54A	Apr-14		0.00532	0.0181	< 0.00100	0.0714 J	0.000847 J	0.495			0.00134 J	
	MW-54A	Nov-14		0.0045	0.019	< 0.00054 B	0.079 J	< 0.00024 B	0.45			< 0.00038	
	MW-54B	Apr-13		< 0.00500	0.0183	< 0.00500	< 0.200	< 0.00500	0.145			< 0.00500	
	MW-55	Apr-12		0.00612	0.00940	< 0.00500	< 0.200	< 0.00500	0.0899	< 0.000200	< 0.00500	0.0270	0.0173
	MW-55	Oct-12	FD	0.00741	0.00980	< 0.00500	< 0.200	< 0.00500	0.00832	< 0.000200	0.00561	0.0214	0.0201
	MW-55	Oct-12		0.00691	0.0108	< 0.00500	< 0.200	< 0.00500	0.00858	< 0.000200	0.00588	0.0216	0.0197
	MW-55	Apr-13		0.00653	0.00954	< 0.00500	< 0.200	< 0.00500	0.0304	< 0.000200	< 0.00500	0.0252	0.0175
	MW-55	Oct-13		< 0.00500	0.0114	< 0.00500	< 0.200	< 0.00500	0.0817	< 0.000200	< 0.00500	0.0160	0.0170
	MW-55	Apr-14	FD	0.00484 J	0.00952	< 0.00100	< 0.0500	< 0.000700	0.185	< 0.0000400	0.00409 J	0.0238	0.0177
	MW-55	Apr-14		0.00506	0.0106	< 0.00100	0.0618 J	< 0.000700	0.195	< 0.0000400	0.00498 J	0.0245	0.0176
	MW-55	Nov-14		0.0045	0.013	< 0.00054 B	0.056 J	< 0.00024 B	0.093	< 0.000049	0.0025	0.013	0.017
	MW-56	Apr-12	FD	0.00607	0.0132	< 0.00500	< 0.200	< 0.00500	0.326			< 0.00500	
	MW-56	Apr-12		0.00623	0.0135	< 0.00500	< 0.200	< 0.00500	0.328			< 0.00500	
	MW-56	Oct-12		0.00764	0.0126	< 0.00500	< 0.200	< 0.00500	0.331			< 0.00500	
	MW-56	Apr-13		0.00715	0.0128	< 0.00500	< 0.200	< 0.00500	0.333			0.00500	
	MW-56	Oct-13		0.00668	0.0135	< 0.00500	< 0.200	< 0.00500	0.330			< 0.00500	
	MW-56	Apr-14		0.00689	0.0137	< 0.00100	< 0.0500	0.000927 J	0.360			0.00495 J	
	MW-56	Nov-14		0.0067	0.014	< 0.00054 B	0.061 J	< 0.00024 B	0.35			0.0031	
	NCL-31	Apr-12		0.00816	0.0620	< 0.00500	0.741	< 0.00500	1.41			< 0.00500	
	NCL-31	Oct-12		0.00969	0.0280	< 0.00500	0.951	0.00523	1.70			< 0.00500	
	NCL-31	Apr-13		0.0112	0.0246	< 0.00500	0.939	< 0.00500	1.78			< 0.00500	
	NCL-31	Oct-13		0.0103	0.0254	< 0.00500	0.866	< 0.00500	1.76			< 0.00500	
	NCL-31	Apr-14		0.0110	0.0229	< 0.00100	1.02	0.00104 J	1.83			0.00110 J	
	NCL-32	Nov-14		0.013	0.2	0.0084	1.4	< 0.00024 B	0.47			0.00044 J	
	NCL-33	Apr-12		< 0.00500	0.0237	< 0.00500	1.53	< 0.00500	0.949			< 0.00500	
	NCL-33	Oct-12		< 0.00500	0.0260	< 0.00500	2.36	< 0.00500	0.944			< 0.00500	
	NCL-33	Apr-13		< 0.00500	0.0282	< 0.00500	2.92	< 0.00500	0.0814			< 0.00500	
	NCL-33	Oct-13		< 0.00500	0.0302	< 0.00500	2.98	< 0.00500	0.0872			< 0.00500	
	NCL-33	Apr-14		0.00230 J	0.0246	< 0.00100	2.98	< 0.000700	0.0896			0.00142 J	
	NCL-33	Nov-14		0.0019 J	0.032	< 0.00054 B	3.6	< 0.00024 B	0.11			0.00067 J	
	NCL-34A	Oct-13		< 0.00500	1.05	< 0.00500	< 0.200	< 0.00500	0.0582			< 0.00500	
	NCL-34A	Nov-14		0.00042 J	0.26	0.00078 J	< 0.05	0.00066 J	0.053			< 0.00038	
	NCL-44	Apr-12		0.0478	0.0282	< 0.00500	1.43	< 0.00500	0.646			< 0.00500	

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
NCL	NCL-44	Oct-12		0.0562	0.0306	< 0.00500	1.80	< 0.00500	0.732			< 0.00500	
	NCL-44	Apr-13		0.0405	0.0360	0.00527	1.77	< 0.00500	0.694			< 0.00500	
	NCL-44	Oct-13		0.0393	0.0302	< 0.00500	1.30	< 0.00500	0.658			< 0.00500	
	NCL-44	Apr-14		0.0383	0.0276	< 0.00100	1.25	< 0.000700	0.656			0.00122 J	
	NCL-44	Nov-14		0.042	0.031	< 0.00054 B	1.2	0.00064 J	0.68			0.00065 J	
	NCL-49	Apr-12		< 0.00500	0.0114	< 0.00500	< 0.200	< 0.00500	< 0.00500			< 0.00500	
	NCL-49	Oct-12	FD	< 0.00500	0.0116	< 0.00500	< 0.200	< 0.00500	< 0.00500			0.00650	
	NCL-49	Oct-12		< 0.00500	0.0113	< 0.00500	< 0.200	< 0.00500	< 0.00500			0.00756	
	NCL-49	Apr-13		< 0.00500	0.0116	< 0.00500	< 0.200	< 0.00500	< 0.00500			< 0.00500	
	NCL-49	Oct-13		< 0.00500	0.0120	< 0.00500	< 0.200	< 0.00500	0.00745			< 0.00500	
	NCL-49	Apr-14		0.00187 J	0.0115	< 0.00100	< 0.0500	< 0.000700	< 0.00250			0.00451 J	
	NCL-49	Nov-14		0.0014 J	0.012	< 0.00054 B	< 0.05	< 0.00024 B	0.0011 J			0.0032	
	NCL-49	Nov-14	FD	0.0016 J	0.011	< 0.00054 B	< 0.05	< 0.00024 B	0.0015 J			0.0026	
	KWB-2R	Nov-14		0.0053	0.089	0.00060 J	0.57	0.0039	0.31			0.00048 J	
	KWB-4	Oct-13		0.0238	3.73	< 0.00500	4.79	< 0.00500	2.17			< 0.00500	
S Refinery	KWB-5	Nov-14		0.024	3.7	0.00059 J	5.4	0.00042 J	2.3			0.00082 J	
	KWB-6	Nov-14		0.0095	0.16	0.00073 J	0.77	0.0010 J	2.2			0.0013 J	
	MW-101	Apr-12		0.0152	0.108	< 0.00500	0.678	< 0.00500	1.01			< 0.00500	
	MW-101	Oct-12		0.0194	0.0850	< 0.00500	0.928	< 0.00500	0.914			< 0.00500	
	MW-101	Apr-13		0.00878	0.111	< 0.00500	0.294	< 0.00500	0.835			< 0.00500	
	MW-101	Oct-13		0.0689	0.0563	< 0.00500	2.75	< 0.00500	1.23			< 0.00500	
	MW-101	Apr-14		0.0320 J	< 0.000900 B	< 0.00100	1.42 J	< 0.000700	1.12			< 0.00100	
	MW-101	Nov-14		0.049	0.089	0.00061 J	1.8	0.00065 J	0.98			0.0012 J	
	MW-102	Nov-14		0.012	0.25	0.0016	0.1 J	0.0026	0.049			0.0013 J	
	MW-103	Apr-12		< 0.00500	0.646	< 0.00500	< 0.200	< 0.00500	0.00590			< 0.00500	
	MW-103	Apr-13		< 0.00500	0.823	< 0.00500	< 0.200	< 0.0100	< 0.00500			< 0.00500	
	MW-103	Apr-14		0.00270 J	1.47	< 0.00100 B	< 0.0500	< 0.000700 B	0.00278 J			< 0.00100	
	MW-104	Apr-12		< 0.00500	0.0155	< 0.00500	< 0.200	< 0.00500	0.0250			< 0.00500	
	MW-104	Oct-12		< 0.00500	0.0214	< 0.00500	< 0.200	< 0.00500	0.0272			< 0.00500	
	MW-104	Apr-13		< 0.00500	0.0190	< 0.00500	< 0.200	< 0.00500	0.0255			< 0.00500	
	MW-104	Oct-13		< 0.00500	0.0245	< 0.00500	< 0.200	< 0.00500	0.0274			< 0.00500	
	MW-104	Apr-14	FD	< 0.00100	0.0188	< 0.00100	< 0.0500	< 0.000700	0.0216			< 0.00100 B	
	MW-104	Apr-14		< 0.00100	< 0.000900 B	< 0.00100	< 0.0500	< 0.000700	0.0380	< 0.0000400		< 0.00100	
	MW-104	Nov-14	FD	0.0017 J	0.029	0.00075 J	< 0.05	< 0.00024	0.032			0.00095 J	
	MW-104	Nov-14		0.0018 J	0.03	< 0.00054	< 0.05	< 0.00024	0.031			< 0.00038	
	MW-105	Nov-14		0.011	0.12	0.0027	0.87	0.0025	0.27			0.012	
	MW-106	Apr-12		< 0.00500	0.0193	< 0.00500	< 0.200	< 0.00500	< 0.00500			< 0.00500	
	MW-106	Oct-12		< 0.00500	0.0434	< 0.00500	< 0.200	< 0.00500	0.0321			< 0.00500	
	MW-106	Apr-13		0.00686	0.0293	< 0.00500	0.416	0.0140	0.0174			< 0.00500	
	MW-106	Oct-13		0.00830	0.0290	< 0.00500	< 0.200	0.00728	0.0144			< 0.00500	
	MW-106	Apr-14		0.00755	0.0300	0.00115 J	0.101 J	0.00337 J	0.0124			0.00320 J	
	MW-107	Apr-12	FD	0.00944	2.10	< 0.00500	8.75	< 0.00500	0.328			< 0.00500	
	MW-107	Apr-12		0.00868	1.89	< 0.00500	7.94	< 0.00500	0.367			< 0.00500	
	MW-107	Oct-12		0.0116	2.91	< 0.00500	10.5	< 0.00500	0.261			< 0.00500	
	MW-107	Apr-13		0.00702	2.33	< 0.00500	9.24	< 0.00500	0.277			< 0.00500	

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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
S Refinery	MW-107	Oct-13		0.0124	3.60	< 0.00500	11.9	< 0.00500	0.265			< 0.00500	
	MW-107	Apr-14		0.00688	2.74	< 0.00100	10.1	< 0.000700	0.270			< 0.00100	
	MW-107	Nov-14		0.015	0.52	0.00097 J	3.8	0.00049 J	0.39			< 0.00038	
	MW-109	Apr-12		0.0286	0.897	< 0.00500	2.19	< 0.00500	0.506			< 0.00500	
	MW-109	Oct-12		0.0354	0.0681	< 0.0100	1.70	< 0.0100	3.03			< 0.0100	
	MW-109	Apr-13		0.0280	0.867	< 0.00500	1.30	< 0.00500	0.421			< 0.00500	
	MW-109	Oct-13		0.0221	0.232	< 0.00500	0.573	< 0.00500	0.337			< 0.00500	
	MW-109	Apr-14		0.0223	0.562	0.00194 J	1.64	< 0.000700	0.345			< 0.00100	
	MW-109	Nov-14		0.0077	0.094	0.00076 J	0.46	< 0.00024	0.18			< 0.00038	
	MW-110	Apr-12		0.0350	0.0822	< 0.00500	1.67	< 0.00500	2.64			< 0.00500	
	MW-110	Oct-12		0.0269	0.608	< 0.0100	0.798	< 0.0100	0.417			< 0.0100	
	MW-110	Apr-13		0.0386	0.0670	< 0.00500	1.56	< 0.00500	2.34			< 0.00500	
	MW-110	Oct-13		0.0367	0.0643	< 0.00500	1.26	< 0.00500	2.25			< 0.00500	
	MW-110	Apr-14		0.0281	0.0599	< 0.00100	1.32	< 0.000700	1.44			< 0.00100	
	MW-110	Nov-14		0.051	0.048	0.00074 J	1.2	< 0.00024	1.8			0.00038 J	
	MW-28	Apr-12		< 0.00500	0.0396	< 0.00500	0.310	0.0165	0.0792	< 0.000200	< 0.00500	< 0.00500	< 0.00500
	MW-28	Oct-12		< 0.00500	0.0382	< 0.00500	< 0.200	0.00610	0.0514	< 0.000200	0.00580	< 0.00500	< 0.00500
	MW-28	Apr-13		< 0.00500	0.0492	< 0.00500	< 0.200	< 0.00500	0.0354	< 0.000200	0.00718	< 0.00500	< 0.00500
	MW-28	Oct-13		< 0.00500	0.0663	< 0.00500	< 0.200	< 0.00500	0.0408	< 0.000200	0.00764	< 0.00500	< 0.00500
	MW-28	Apr-14		0.00429 J	0.142	< 0.00100	< 0.0500	< 0.000700 B	0.0397	< 0.0000400	0.00817	< 0.00100	< 0.000900 B
	MW-28	Nov-14		0.0067	0.1	0.0017 B	0.073 J	0.0045	0.1	< 0.000049	0.0056	0.0020 J	0.0099
	MW-48	Nov-14		0.033	0.35	0.0031	1.4	0.012	2			0.0014 J	
	MW-50	Apr-12		< 0.00500	0.0150	< 0.00500	< 0.200	< 0.00500	1.05			< 0.00500	
	MW-50	Oct-12		< 0.00500	0.0178	< 0.00500	< 0.200	< 0.00500	1.32			< 0.00500	
	MW-50	Apr-13		< 0.00500	0.0198	< 0.00500	< 0.200	< 0.00500	1.31			< 0.00500	
	MW-50	Oct-13		< 0.00500	0.0240	< 0.00500	0.430	< 0.00500	1.47			< 0.00500	
	MW-50	Apr-14		< 0.00100	0.0199	< 0.00100	0.123 J	0.00124 J	1.32			< 0.00100	
	MW-50	Nov-14		0.0042	0.024	0.00060 J	3.7	0.0010 J	1.5			0.00040 J	
	MW-52	Apr-12		< 0.00500	0.00947	< 0.00500	< 0.200	< 0.00500	0.0786	< 0.000200	< 0.00500	< 0.00500	0.0240
	MW-52	Oct-12		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	0.0499	< 0.000200	< 0.0100	< 0.0100	0.0226
	MW-52	Apr-13		< 0.0100	0.00906	< 0.00500	< 0.200	< 0.00500	0.0725	< 0.000200	< 0.0100	< 0.00500	0.0251
	MW-52	Oct-13	FD	< 0.00500	0.0114	< 0.00500	< 0.200	< 0.00500	0.0344	< 0.000200	< 0.00500	< 0.00500	0.0258
	MW-52	Oct-13		< 0.00500	0.0114	< 0.00500	< 0.200	< 0.00500	0.0296	< 0.000200	< 0.00500	< 0.00500	0.0267
	MW-52	Apr-14	FD	0.00349 J	0.00988	0.00143 J	0.0709 J	< 0.000700	0.0324	< 0.0000400	0.00206 J	0.00124 J	0.0238
	MW-52	Apr-14		0.00373 J	0.00923	< 0.00100	< 0.0500	< 0.000700	0.0360	< 0.0000400	0.00268 J	0.00103 J	0.0236
	MW-52	Nov-14		0.0033	0.0097	0.00057 J	< 0.05	0.00076 J	0.06	< 0.000049	0.0067	0.0020	0.025
	MW-65	Nov-14		0.058	0.37	0.00074 J	8.6	0.0019 J	2.2			0.00042 J	
	MW-66	Apr-12		< 0.00500	1.69	< 0.00500	< 0.200	< 0.00500	0.303	< 0.000200	0.00959	< 0.00500	< 0.00500
	MW-66	Oct-12		< 0.00500	1.79	< 0.00500	0.462	< 0.00500	0.309	< 0.000200	0.0110	< 0.00500	< 0.00500
	MW-66	Apr-13		< 0.00500	1.93	< 0.00500	0.540	< 0.00500	0.283	< 0.000200	0.00959	< 0.00500	< 0.00500
	MW-66	Oct-13	FD	< 0.00500	1.89	< 0.00500	0.560	< 0.00500	0.303	< 0.000200	0.00910	< 0.00500	< 0.00500
	MW-66	Oct-13		< 0.00500	1.99	< 0.00500	0.601	< 0.00500	0.306	< 0.000200	0.00881	< 0.00500	< 0.00500
	MW-66	Apr-14		0.00300 J	1.90	< 0.00100	0.397 J	< 0.000700	0.335	< 0.0000400	0.00857	< 0.00100	< 0.000900
	MW-66	Nov-14		0.0029	2.2	0.00076 J	1.4	0.0026	0.28	< 0.000049	0.0068	0.0015 J	0.00084 J
	MW-99	Nov-14		0.012	0.43	0.0019	1.2	0.0038	0.29			< 0.00038	

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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
S Refinery	MW-130	Apr-14		0.00474 J	0.0370	0.00626	2.84	0.00398 J	0.202			0.00569	
	MW-130	Nov-14		0.0046	0.026	0.0025	1.2	0.0012 J	0.12			0.0037	
	RA-313	Apr-14									0.0481		
S RO Reject Field	MW-114	Apr-14		0.00292 J	0.0153	< 0.00100	0.0777 J	< 0.000700	1.20			< 0.00100 B	
	MW-114	Nov-14		0.0031	0.026	0.0023	0.81	0.00055 J	1.2			0.0018 J	
	MW-115	Apr-14		0.00444 J	0.0102	< 0.00100	0.0685 J	< 0.000700	0.0262			< 0.00100 B	
	MW-115	Nov-14		0.0034	0.015	0.00086 J	0.13	0.00024 J	0.03			0.0028	
	MW-116	Apr-14		0.00442 J	0.0102	< 0.00100	0.108 J	< 0.000700	0.00627			< 0.00100 B	
	MW-116	Nov-14		0.0038	0.0098	0.0010 J	0.11	< 0.00024	0.0042 J			0.0055	
TEL	MW-49	Apr-12	FD	0.00616	0.0438	< 0.00500	< 0.200	< 0.00500	0.272	< 0.000200	0.00969	< 0.00500	< 0.00500
	MW-49	Apr-12		0.00626	0.0449	< 0.00500	< 0.200	< 0.00500	0.284	< 0.000200	0.0106	< 0.00500	< 0.00500
	MW-49	Oct-12		0.00645	0.0444	< 0.00500	< 0.200	< 0.00500	0.282	< 0.000200	0.0107	< 0.00500	< 0.00500
	MW-49	Apr-13	FD	0.00556	0.0404	< 0.00500	< 0.200	< 0.00500	0.289	< 0.000200	0.00841	< 0.00500	< 0.00500
	MW-49	Apr-13		0.00553	0.0390	< 0.00500	< 0.200	< 0.00500	0.290	< 0.000200	0.00825	< 0.00500	< 0.00500
	MW-49	Oct-13		< 0.00500	0.0511	< 0.00500	< 0.200	< 0.00500	0.245	< 0.000200	0.00904	< 0.00500	< 0.00500
	MW-49	Apr-14		0.00457 J	0.0409	< 0.00100	< 0.0500	< 0.000700	0.302	< 0.0000400	0.00856	0.00113 J	< 0.000900 B
	MW-49	Nov-14		0.0055	0.1	0.0082	3.4	0.012	0.33	< 0.000049	0.02	0.0019 J	0.011
	TEL-1	Apr-12	FD	0.00824	0.0127	< 0.00500	< 0.200	< 0.00500	0.0767			< 0.00500	
	TEL-1	Apr-12		0.00909	0.0134	< 0.00500	< 0.200	0.0103	0.0807			< 0.00500	
	TEL-1	Oct-12	FD	0.00658	0.0148	< 0.00500	< 0.200	< 0.00500	0.142			< 0.00500	
	TEL-1	Oct-12		0.00564	0.0167	< 0.00500	< 0.200	< 0.00500	0.140			< 0.00500	
	TEL-1	Apr-13		< 0.00500	0.0125	< 0.00500	< 0.200	< 0.00500	0.153			< 0.00500	
	TEL-1	Oct-13		< 0.00500	0.0130	< 0.00500	< 0.200	< 0.00500	0.114			< 0.00500	
	TEL-1	Apr-14	FD	0.00372 J	0.0108 J	< 0.00100	< 0.0500	< 0.000700	0.0751 J			< 0.00100 B	
	TEL-1	Apr-14		0.00402 J	0.0117	< 0.00100	< 0.0500	0.00109 J	0.0827			< 0.00100 B	
	TEL-1	Nov-14		0.0026	0.011	0.00090 J	< 0.05	< 0.00024	0.14			< 0.00038	
	TEL-2	Apr-12		0.0104	0.0795	< 0.00500	< 0.200	< 0.00500	0.0136			< 0.00500	
	TEL-2	Oct-12		0.0106	0.0677	< 0.0100	< 0.400	< 0.0100	0.0259			< 0.0100	
	TEL-2	Apr-13		0.0119	0.0652	< 0.00500	< 0.200	< 0.00500	0.0149			< 0.00500	
	TEL-2	Oct-13		0.0109	0.0608	< 0.00500	< 0.200	< 0.00500	0.0189			< 0.00500	
	TEL-2	Apr-14		0.0115	0.0729	0.00127 J	< 0.0500	0.00248 J	0.00988			0.00593	
	TEL-2	Nov-14		0.012	0.11	0.0017	< 0.05	0.0024	0.013			0.0011 J	
	TEL-3	Apr-12		< 0.00500	0.0116	< 0.00500	< 0.200	< 0.00500	0.00841			< 0.00500	
	TEL-3	Oct-12		< 0.00500	0.0161	< 0.00500	< 0.200	< 0.00500	0.0241			< 0.00500	
	TEL-3	Apr-13		< 0.00500	0.0135	< 0.00500	< 0.200	< 0.00500	0.0123			< 0.00500	
	TEL-3	Oct-13		< 0.00500	0.0161	< 0.00500	< 0.200	< 0.00500	0.0197			< 0.00500	
	TEL-3	Apr-14		0.00330 J	0.0147	0.00723	0.0610 J	< 0.000700	0.0122			< 0.00100 B	
	TEL-3	Nov-14		0.0013 J	0.012	0.0053	0.076 J	< 0.00024	0.015			< 0.00038	
	TEL-4	Apr-12		0.00966	0.0365	0.0396	0.420	0.00594	1.16			< 0.00500	
	TEL-4	Oct-12		0.0102	0.0371	0.151	0.708	< 0.00500	0.861			< 0.00500	
	TEL-4	Apr-13		0.00850	0.0299	0.146	1.22	< 0.00500	0.587			< 0.00500	
	TEL-4	Oct-13		0.0129	0.0475	0.0588	0.243	< 0.00500	0.763			< 0.00500	
	TEL-4	Apr-14		0.0128	0.0376	0.223	0.0921 J	< 0.000700 B	0.408			0.00103 J	
	TEL-4	Nov-14	FD	0.01	0.042	0.51	0.13	< 0.00024 B	0.28			< 0.00038	
	TEL-4	Nov-14		0.01	0.043	0.38	0.093 J	< 0.00024 B	0.29			< 0.00038	

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
TMD	MW-16	Apr-12		< 0.00500	0.0163	< 0.00500	< 0.200	< 0.00500	0.177			< 0.00500	
	MW-16	Apr-13		< 0.0100	0.0162	< 0.0100	< 0.400	< 0.0100	0.0520			< 0.0100	
	MW-16	Apr-14		0.00470 J	0.0151	< 0.00200	< 0.100	< 0.00140	0.244			0.00322 J	
	MW-20	Apr-12		0.00696	0.00904	< 0.00500	< 0.200	< 0.00500	0.144			0.0109	
	MW-20	Apr-13		< 0.0100	0.0101	< 0.0100	< 0.400	< 0.0100	0.251			0.0160	
	MW-20	Apr-14	FD	0.00865 J	0.0103	< 0.00200	< 0.100	< 0.00140	0.0800			0.0170	
	MW-20	Apr-14		0.00750 J	0.00905 J	< 0.00200	< 0.100	< 0.00140	0.0906			0.0179	
	MW-21	Apr-12		0.00588	0.00886	< 0.00500	< 0.200	< 0.00500	0.509			0.0291	
	MW-21	Oct-12		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	0.897			0.0290	
	MW-21	Apr-13		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	0.345			0.0305	
	MW-21	Oct-13	FD	0.00554	0.00790	< 0.00500	< 0.200	< 0.00500	0.629			0.0192	
	MW-21	Oct-13		0.00530	0.00844	< 0.00500	< 0.200	< 0.00500	0.614			0.0195	
	MW-21	Apr-14		0.00724 J	0.00373 J	< 0.00200	< 0.100	< 0.00140	0.432			0.0259	
	MW-21	Nov-14		0.0054	0.0080	0.00078 J	< 0.05	< 0.00024	0.82			0.018	
	MW-25	Apr-12		< 0.00500	0.0109	< 0.00500	< 0.200	< 0.00500	0.152			< 0.00500	
	MW-25	Apr-13		< 0.0100	0.0121	< 0.0100	< 0.400	< 0.0100	0.129			< 0.0100	
	MW-25	Apr-14		0.00502 J	0.0265	< 0.00500	< 0.250	< 0.00350	1.09			< 0.00500	
	MW-26	Apr-12		< 0.00500	0.00835	< 0.00500	< 0.200	< 0.00500	0.103			0.00733	
	MW-26	Apr-13		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	0.212			< 0.0100	
	MW-26	Apr-14		0.00413 J	0.00878 J	< 0.00200	< 0.100	< 0.00140	0.731			0.0241	
	MW-27	Apr-12		< 0.00500	0.0166	< 0.00500	< 0.200	< 0.00500	0.00517			0.0167	
	MW-27	Apr-13		< 0.00500	0.0145	< 0.00500	< 0.200	< 0.00500	0.0102			0.0199	
	MW-27	Apr-14		0.00249 J	0.0166	< 0.00100	< 0.0500	< 0.000700	0.00554			0.0192	
	MW-46R	Apr-12		< 0.00500	0.0114	< 0.00500	< 0.200	< 0.00500	0.0155			0.0129	
	MW-46R	Oct-12		< 0.00500	0.0137	< 0.00500	< 0.200	< 0.00500	0.0476			0.0103	
	MW-46R	Apr-13		< 0.00500	0.0121	< 0.00500	< 0.200	< 0.00500	0.0423			0.00735	
	MW-46R	Oct-13		< 0.00500	0.0148	< 0.00500	< 0.200	< 0.00500	0.0809			< 0.00500	
	MW-46R	Apr-14		0.00338 J	0.0259	0.00222 J	0.621	< 0.000700	0.0998			< 0.00100 B	
	MW-46R	Nov-14		0.0042	0.024	0.0028	1.1	0.00083 J	0.14			0.0034	
	MW-68	Apr-12		< 0.00500	0.0162	< 0.00500	< 0.200	< 0.00500	< 0.00500			0.0330	
	MW-68	Apr-13		< 0.00500	0.0147	< 0.00500	0.279	< 0.00500	< 0.00500			0.0314	
	MW-68	Apr-14		0.00325 J	0.0142	< 0.00200	< 0.100	< 0.00140	< 0.00500			0.0248	
	MW-71	Apr-12		< 0.00500	0.00922	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0329	0.0224
	MW-71	Sep-12		< 0.00500	< 0.0100	< 0.00500	< 0.200	< 0.0100	< 0.00500	< 0.000200	< 0.00500	0.0444	0.0248
	MW-71	Apr-13	FD	< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	< 0.0100	< 0.000200	< 0.0100	0.0396	0.0254
	MW-71	Apr-13		< 0.0100	< 0.0100	< 0.0100	< 0.400	< 0.0100	< 0.0100	< 0.000200	< 0.0100	0.0398	0.0245
	MW-71	Oct-13		0.00536	0.00969	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0417	0.0251
	MW-71	Apr-14		0.00458 J	0.00860	< 0.00100	< 0.0500	< 0.000700	< 0.00250	< 0.0000400	0.00123 J	0.0452	0.0252
	MW-8	Apr-12		0.00666	0.0131	0.0265	< 0.200	< 0.00500	0.650			0.0313	
	MW-8	Oct-12		< 0.0100	0.0126	0.0129	< 0.400	< 0.0100	0.625			0.0339	
	MW-8	Apr-13		0.0105	0.0123	0.262	0.838	< 0.0100	0.567			0.0233	
	MW-8	Oct-13		0.00929	0.0123	0.0986	0.307	< 0.00500	0.584			0.0158	
	MW-8	Apr-14		0.00884 J	0.0114	0.0212	< 0.100	< 0.00140	0.557			0.0237	

Table C.2 - Groundwater Analytical Results 2012-2014 - Total Metals
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Analyte:				Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.05	1	0.015	0.2	0.002	0.2	0.05	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	NMED TW
Location Name	Location	Date	Dup										
TMD	MW-89	Apr-12		0.0101	0.0161	< 0.00500	< 0.200	< 0.00500	0.478			0.0361	
	MW-89	Apr-13		0.0132	0.0134	< 0.00500	< 0.200	< 0.00500	0.670			< 0.00500	
	MW-89	Apr-14		0.0128	0.0140	< 0.00100	0.195 J	< 0.000700	0.537			0.0188	
Upgradient	UG-1	Apr-12		< 0.00500	0.0212	< 0.00500	0.540	< 0.00500	0.00614	< 0.000200	< 0.00500	0.00553	0.0117
	UG-1	Apr-13		< 0.00500	0.0137	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500	0.0111
	UG-1	Apr-14		0.00158 J	0.0128	0.00159 J	0.0832 J	< 0.000700	0.00575	< 0.0000400	0.00121 J	0.00728	0.0135
	UG-2	Apr-12		< 0.00500	0.0655	< 0.00500	1.40	< 0.00500	0.161	< 0.000200	0.0107	< 0.00500	0.0210
	UG-2	Apr-13	FD	< 0.00500	0.0182	< 0.00500	< 0.200	< 0.00500	0.0711	< 0.000200	0.0121	0.00581	0.0166
	UG-2	Apr-13		< 0.00500	0.0172	< 0.00500	< 0.200	< 0.00500	0.0801	< 0.000200	0.0125	< 0.00500	0.0148
	UG-2	Apr-14		0.00385 J	0.0167	< 0.00100	0.673	< 0.000700	0.488	< 0.0000400	0.0256	0.00209 J	0.00820
	UG-3R	Apr-12	FD	< 0.00500	0.0168	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500	0.00802
	UG-3R	Apr-12		< 0.00500	0.0160	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500	0.00794
	UG-3R	Apr-13		< 0.00500	0.0149	< 0.00500	< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500	0.00815
	UG-3R	Apr-14	FD	0.00167 J	0.0163	< 0.00100	< 0.0500	< 0.000700	< 0.00250	< 0.0000400	< 0.00100	0.00640	0.0101
	UG-3R	Apr-14		0.00184 J	0.0170	< 0.00100	< 0.0500	< 0.000700	< 0.00250	< 0.0000400	< 0.00100	0.00534	0.0109

Table C.3 - Groundwater Analytical Results 2012-2014 - Dissolved Metals
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Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
Crossgradient	KWB-13	Apr-12		< 0.00500	0.0166		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0140		0.0182	
	KWB-13	Apr-13		< 0.00500	0.0161		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0145		0.0206	
	KWB-13	Apr-14		0.00276 J	0.0156		0.00107 J		< 0.0780	< 0.000700	< 0.00250	< 0.0000420	< 0.00100	0.0136		0.0188	
	MW-17	Apr-14		0.00217 J	0.0139		0.00184 J		< 0.0780	< 0.000700	< 0.00250			0.00918			
	NP-5	Apr-12	FD	< 0.00500	0.00733		< 0.00500		< 0.200	< 0.00500	< 0.00500			0.0192			
	NP-5	Apr-12		< 0.00500	0.00738		< 0.00500		< 0.200	< 0.00500	< 0.00500			0.0189			
	NP-5	Apr-13		< 0.0100	< 0.0100		< 0.0100		< 0.400	< 0.0100	< 0.0100			0.0148			
	MW-1R	Apr-12		< 0.00500	0.0196		< 0.00500		2.09	< 0.00500	1.58			< 0.00500			
	MW-1R	Apr-13	FD	< 0.00500	0.0195		< 0.00500		1.53	< 0.00500	1.37			< 0.00500			
	MW-1R	Apr-13		< 0.00500	0.0200		< 0.00500		1.55	< 0.00500	1.38			< 0.00500			
EP	MW-1R	Apr-14		< 0.00200	0.0194		< 0.00200		1.31	< 0.00140	1.22			< 0.00200			
	MW-2A	Mar-12		0.0172	0.0144		< 0.00500		2.38	< 0.00500	1.61			< 0.00500			
	MW-2A	Mar-13		0.0437	0.0236		< 0.0100		5.95	< 0.0100	2.87			< 0.0100			
	MW-2A	Apr-14		0.0148 J	0.0210 J		< 0.00500		< 0.390	0.00423 J	1.27			0.00624 J			
	MW-3	Mar-12		0.0566	0.0153		< 0.00500		1.37	< 0.00500	1.49			< 0.00500			
	MW-3	Mar-13		0.0257	0.0155		< 0.00500		0.465	< 0.00500	1.48			0.00615			
	MW-3	Apr-14		0.0285	0.0178		< 0.00200		< 0.156	< 0.00140	0.325			0.0429			
	MW-4A	Apr-12		0.0916	0.0126		< 0.00500		1.80	< 0.00500	1.74			< 0.00500			
	MW-4A	Apr-13		0.0618	0.0123		< 0.00500		1.46	< 0.00500	1.59			< 0.00500			
	MW-4A	Apr-14		0.0786	0.0121		< 0.00200		0.614	< 0.00140	2.36			< 0.00200			
	MW-4B	Apr-13		0.0428	0.00976		< 0.00500		1.18	< 0.00500	1.52			< 0.00500			
	MW-5A	Apr-12		0.139	0.0115		< 0.00500		7.83	< 0.00500	1.02			< 0.00500			
	MW-5A	Apr-13		0.140	< 0.0250		< 0.0250		8.10	< 0.0250	1.03			< 0.0250			
	MW-5A	Apr-14		0.0796	0.0106 J		< 0.00500		5.40	< 0.00350	1.62			< 0.00500			
	MW-5B	Apr-13		0.109	< 0.0100		< 0.0100		0.618	< 0.0100	2.17			< 0.0100			
	MW-5C	Apr-13		0.0137	0.0140		< 0.00500		1.08	< 0.00500	0.900			< 0.00500			
	MW-6A	Mar-12		0.00764	0.0136		< 0.00500		0.534	< 0.00500	0.234			< 0.00500			
	MW-6A	Mar-13		0.00642	0.0136		< 0.00500		0.571	< 0.00500	0.297			< 0.00500			
	MW-6A	Apr-14		0.0102	0.0252		< 0.00200		< 0.156	< 0.00140	1.20			0.0157			
	MW-6B	Mar-13	FD	0.0336	0.0173		< 0.00500		1.23	< 0.00500	3.03			< 0.00500			
	MW-6B	Mar-13		0.0320	0.0145		< 0.00500		1.24	< 0.00500	2.84			< 0.00500			
	MW-7A	Apr-12		0.0247	0.0148		< 0.00500		5.40	< 0.00500	0.403			< 0.00500			
	MW-7A	Apr-13		0.0264	< 0.0250		< 0.0250		5.61	< 0.0250	0.392			< 0.0250			
	MW-7A	Apr-14		0.0239	0.0167		< 0.00200		2.34	< 0.00140	0.541			< 0.00200			
	MW-7B	Apr-13		< 0.0100	0.0114		< 0.0100		< 0.400	< 0.0100	0.358			< 0.0100			
	MW-10	Apr-12		0.0203	0.0102		< 0.00500		< 0.200	< 0.00500	2.00			< 0.00500			
	MW-10	Apr-13		< 0.0250	< 0.0250		< 0.0250		< 1.00	< 0.0250	2.27			< 0.0250			
	MW-10	Apr-14		0.0195	0.0114		< 0.00200		< 0.156	< 0.00140	2.75			< 0.00200			
	MW-11A	Apr-12		< 0.00500	0.0267		< 0.00500		3.52	< 0.00500	1.75			< 0.00500			
	MW-11A	Mar-13		< 0.0250	0.0251		< 0.0250		3.95	< 0.0250	1.83			< 0.0250			
	MW-11A	Apr-14		< 0.00500	0.0370		< 0.00500		0.924 J	< 0.00350	1.84			< 0.00500			
	MW-11B	Mar-13		< 0.0250	< 0.0250		< 0.0250		3.62	< 0.0250	0.365			< 0.0250			
	MW-12	Apr-14		< 0.00200	0.0204		< 0.00200		< 0.156	< 0.00140	0.183			0.0208			
	MW-13	Apr-14		< 0.00200	0.0334		< 0.00200		< 0.156	< 0.00140	0.173			< 0.00200			
	MW-15	Apr-12	FD	0.0390	0.0170		< 0.00500		< 0.200	< 0.00500	1.22			< 0.00500			

Table C.3 - Groundwater Analytical Results 2012-2014 - Dissolved Metals
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Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
EP	MW-15	Apr-12		0.0371	0.0171		< 0.00500		< 0.200	< 0.00500	1.19			< 0.00500			
	MW-15	Mar-13		0.0242	0.0157		< 0.0100		< 0.400	< 0.0100	1.60			< 0.0100			
	MW-15	Apr-14		0.0589	0.0186		0.0144		< 0.156	< 0.00140	0.332			0.00547 J			
	MW-18A	Apr-12		0.00603	0.0174		< 0.00500		0.408	< 0.00500	1.46	< 0.000200	0.00834	< 0.00500		< 0.00500	
	MW-18A	Apr-13		< 0.0250	< 0.0250		< 0.0250		9.20	< 0.0250	2.58	< 0.000200	< 0.0250	< 0.0250		< 0.0250	
	MW-18A	Apr-14		< 0.0100	0.0166 J		< 0.0100		< 0.780	< 0.00700	0.176	< 0.0000420	< 0.0100	0.0323 J		< 0.00900	
	MW-18B	Apr-13		0.00781	0.0119		< 0.00500		< 0.200	< 0.00500	0.657			< 0.00500			
	MW-22A	Apr-12		0.0388	0.0152		< 0.00500		2.64	< 0.00500	5.29			< 0.00500			
	MW-22A	Apr-13		0.0397	< 0.0250		< 0.0250		2.55	< 0.0250	5.34			< 0.0250			
	MW-22A	Apr-14		0.0418	0.0154		< 0.00200		0.271 J	< 0.00140	3.58			0.00322 J			
	MW-22B	Apr-13		0.0288	< 0.0250		< 0.0250		1.98	< 0.0250	3.41			< 0.0250			
	MW-70	Apr-12		0.0180	0.0153		< 0.00500		0.566	< 0.00500	0.377			< 0.00500			
	MW-70	Apr-13		0.0192	0.0153		< 0.00500		1.87	< 0.00500	0.402			< 0.00500			
	MW-70	Apr-14		0.0240	0.0154		< 0.00100		0.922	< 0.000700	0.302			< 0.00100			
	MW-72	Mar-12		0.0568	0.0126		< 0.00500		19.8	< 0.0100	4.23			< 0.00500			
	MW-72	Mar-13		0.0550	0.0142		< 0.00500		21.8	< 0.00500	5.31			< 0.00500			
	MW-72	Apr-14		0.0258	0.0146 J		< 0.00500		3.89	< 0.00350	5.16			< 0.00500			
	MW-73	Mar-12		0.107	0.00973		< 0.00500		5.83	< 0.0100	2.62			< 0.00500			
	MW-73	Mar-13		0.108	0.0104		< 0.00500		6.66	< 0.00500	2.91			< 0.00500			
	MW-73	Apr-14		0.0986	0.0102 J		< 0.00500		4.67	< 0.00350	2.62			< 0.00500			
	MW-74	Mar-12		0.113	0.0117		< 0.00500		1.48	< 0.0100	2.53			0.00898			
	MW-74	Mar-13		0.111	0.0128		< 0.00500		1.48	< 0.00500	2.64			0.00876			
	MW-74	Apr-14		0.0606	0.0121 J		< 0.00500		< 0.390	< 0.00350	1.07			0.162			
	MW-75	Mar-12		0.218	0.0129		< 0.00500		1.83	< 0.00500	0.893 J			< 0.00500			
	MW-75	Mar-13		0.191	0.0130		< 0.00500		1.43	< 0.00500	0.902			< 0.00500			
	MW-75	Apr-14		0.152	0.0155		< 0.00200		0.719	< 0.00140	1.03			0.00292 J			
	MW-76	Mar-12		0.0570	0.0127		< 0.00500		2.33	< 0.00500	0.587			< 0.00500			
	MW-76	Mar-13		0.0559	0.0123		< 0.00500		2.60	< 0.00500	0.619			< 0.00500			
	MW-76	Apr-14		0.0521	0.0128		0.00128 J		2.95	< 0.000700	1.00			0.00139 J			
	MW-77	Mar-12		0.0795	0.0110		< 0.00500		2.27	< 0.00500	0.726 J	< 0.000200	0.00881	< 0.00500		< 0.00500	
	MW-77	Mar-13		0.0641	0.0117		0.00570		3.48	< 0.00500	0.824	< 0.000200	0.0129	0.00744		0.00656	
	MW-77	Apr-14		0.0670	0.0110		0.00747 J		7.09	0.00176 J	0.909			0.0123			
	MW-78	Mar-12		0.0229	0.0201		0.0203		4.71	< 0.00500	0.791			< 0.00500			
	MW-78	Mar-13		0.0126	0.0295		0.0815		0.798	< 0.00500	0.489			0.00963			
	MW-78	Apr-14		0.0145	0.0278		0.0363		4.70	< 0.000700	1.60			0.00708			
	MW-79	Mar-12		0.0106	0.0133		< 0.00500		< 0.200	< 0.00500	2.87			< 0.00500			
	MW-79	Mar-13		0.00818	0.0147		< 0.00500		0.587	< 0.00500	3.78			< 0.00500			
	MW-79	Apr-14		0.0183	0.0134		< 0.00200		< 0.156	< 0.00140	1.30			0.00861 J			
	MW-80	Mar-12		< 0.00500	0.0138		< 0.00500		0.718	< 0.00500	1.48			< 0.00500			
	MW-80	Mar-13		0.00510	0.0136		< 0.00500		0.544	< 0.00500	0.642			< 0.00500			
	MW-80	Apr-14		0.00720 J	0.0155		< 0.00200		< 0.156	0.00170 J	0.403			0.00238 J			
	MW-81	Mar-12		0.00694	0.0155		< 0.00500		< 0.200	< 0.00500	1.92 J			< 0.00500			
	MW-81	Mar-13	FD	0.00523	0.0151		< 0.00500		< 0.200	< 0.00500	2.17			< 0.00500			
	MW-81	Mar-13		0.00503	0.0154		< 0.00500		< 0.200	< 0.00500	2.12			< 0.00500			
	MW-81	Apr-14		0.0188	0.0151		< 0.00200		< 0.156	0.00152 J	0.124			0.00945 J			

Table C.3 - Groundwater Analytical Results 2012-2014 - Dissolved Metals
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Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
EP	MW-82	Mar-12		0.115	0.0182		< 0.00500		2.05	< 0.00500	1.30			< 0.00500			
	MW-82	Mar-13		0.0837	0.0175		< 0.00500		0.626	< 0.00500	1.47			< 0.00500			
	MW-82	Apr-14	FD	0.0710	0.0183		< 0.00200		0.543	< 0.00140	1.39			< 0.00200			
	MW-82	Apr-14		0.0684	0.0181		< 0.00200		0.493	< 0.00140	1.35			< 0.00200			
	MW-83	Mar-12		0.123	0.0147		< 0.00500		4.14	< 0.00500	0.455			< 0.00500			
	MW-83	Mar-13		0.0398	0.0175		< 0.00500		1.07	< 0.00500	0.473			0.00511			
	MW-83	Apr-14		0.0292	0.0171		0.00271 J		2.60	< 0.000700	0.977			0.00741			
	MW-84	Mar-12	FD	0.0761	0.0135		< 0.00500		0.524	< 0.00500	2.26			< 0.00500			
	MW-84	Mar-12		0.0714	0.0131		< 0.00500		0.434	< 0.00500	2.15			< 0.00500			
	MW-84	Mar-13		0.0828	0.0133		< 0.00500		0.515	< 0.00500	2.55			0.00513			
	MW-84	Apr-14		0.0779	0.0127		0.00293 J		0.324 J	< 0.00140	3.28			0.00690 J			
	MW-87	Apr-12		0.00782	0.0125		< 0.00500		< 0.200	< 0.00500	0.178			< 0.00500			
	MW-87	Apr-13		< 0.0250	< 0.0250		< 0.0250		< 1.00	< 0.0250	0.0302			< 0.0250			
	MW-87	Apr-14		0.00660 J	0.0160 J		< 0.00500		< 0.390	< 0.00350	0.0205 J			< 0.00500			
	MW-88	Apr-12		0.0102	0.00977		< 0.00500		< 0.200	< 0.00500	0.730			< 0.00500			
	MW-88	Apr-13		< 0.0250	< 0.0250		< 0.0250		< 1.00	< 0.0250	0.690			< 0.0250			
	MW-88	Apr-14		0.0106	0.0130		< 0.00200		< 0.156	< 0.00140	0.914			< 0.00200			
	MW-120	Apr-14		0.0152	0.00984 J		< 0.00200		3.76	0.00156 J	1.27			< 0.00200			
	MW-121	Apr-14		0.0339	0.0170		< 0.00200		0.415	0.00150 J	4.37			0.00511 J			
	MW-122	Apr-14		0.00897 J	0.0337		< 0.00200		4.81	0.00167 J	2.00			< 0.00200			
	MW-123	Apr-14		0.0276	0.0207		< 0.00200		< 0.156	< 0.00140	2.94			< 0.00200			
	MW-124	Apr-14		0.00439 J	0.0241		< 0.00200		0.613	< 0.00140	0.518			< 0.00200			
	OCD-1R	Mar-12		0.00840	0.0185		< 0.00500		4.11	< 0.00500	2.06			< 0.00500			
	OCD-1R	Apr-14		0.00705 J	0.0156		< 0.00200		< 0.156	< 0.00140	1.31			0.00716 J			
	OCD-2A	Mar-12	FD	< 0.00500	0.0247		< 0.00500		3.45	< 0.00500	1.23			< 0.00500			
	OCD-2A	Mar-12		< 0.00500	0.0251		< 0.00500		3.47	< 0.00500	1.24			< 0.00500			
	OCD-2A	Mar-13		< 0.00500	0.00556		< 0.00500		1.22	< 0.00500	0.357			< 0.00500			
	OCD-2A	Apr-14		< 0.00200	0.0203		< 0.00200		< 0.156	< 0.00140	0.440			< 0.00200			
	OCD-3	Mar-12		< 0.00500	0.0213		< 0.00500		0.548	< 0.00500	0.368			< 0.00500			
	OCD-3	Mar-13		< 0.00500	< 0.00500		< 0.00500		< 0.200	< 0.00500	0.0894			< 0.00500			
	OCD-3	Apr-14		< 0.00200	0.0187		< 0.00200		< 0.156	< 0.00140	0.0572			< 0.00200			
	OCD-4	Mar-12		< 0.00500	0.0245		< 0.00500		4.29	< 0.00500	0.301			< 0.00500			
	OCD-4	Mar-13		< 0.0250	< 0.0250		< 0.0250		4.32	< 0.0250	0.275			< 0.0250			
	OCD-4	Apr-14		< 0.00500	0.0212 J		< 0.00500		3.10	< 0.00350	0.287			< 0.00500			
	OCD-5	Mar-12		< 0.00500	0.0239		< 0.00500		3.07	< 0.00500	0.353			< 0.00500			
	OCD-5	Mar-13		< 0.0250	< 0.0250		< 0.0250		2.24	< 0.0250	0.295			< 0.0250			
	OCD-5	Apr-14	FD	< 0.00500	0.0241 J		< 0.00500		1.62	< 0.00350	0.386			< 0.00500			
	OCD-5	Apr-14		0.00550 J	0.0243 J		< 0.00500		1.61	< 0.00350	0.375			< 0.00500			
	OCD-6	Mar-12		0.0360	0.0184		< 0.00500		11.9	< 0.00500	2.36			< 0.00500			
	OCD-6	Mar-13		0.0374	< 0.0250		< 0.0250		12.4	< 0.0250	2.33			< 0.0250			
	OCD-6	Apr-14		0.0161 J	0.0194 J		< 0.00500		1.75	< 0.00350	2.20			< 0.00500			
	OCD-7AR	Mar-12		0.251	0.0160		< 0.00500		10.8	< 0.00500	3.84			< 0.00500			
	OCD-7AR	Mar-13		0.242	< 0.0250		< 0.0250		11.1	< 0.0250	3.65			< 0.0250			
	OCD-7AR	Apr-14	FD	0.131	0.0125		< 0.00200		1.57	< 0.00140	2.62			0.00271 J			
	OCD-7AR	Apr-14		0.130	0.0119		0.00204 J		1.73	< 0.00140	2.77			0.00234 J			

Table C.3 - Groundwater Analytical Results 2012-2014 - Dissolved Metals
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Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
EP	OCD-7B	Mar-13		< 0.00500	0.0155		< 0.00500		< 0.200	< 0.00500	< 0.00500			< 0.00500			
	OCD-8A	Apr-12		0.106	0.0135		< 0.00500		5.94	< 0.00500	3.56	< 0.000200	0.0187	< 0.00500		< 0.00500	
	OCD-8A	Apr-13	FD	0.116	< 0.0250		< 0.0250		8.48	< 0.0250	3.36	< 0.000200	< 0.0250	< 0.0250		< 0.0250	
	OCD-8A	Apr-13		0.107	< 0.0250		< 0.0250		8.51	< 0.0250	3.18	< 0.000200	< 0.0250	< 0.0250		< 0.0250	
	OCD-8A	Apr-14	FD	0.0735	0.0235		< 0.00200		8.13	< 0.00140	3.38	0.00170	0.0295	< 0.00200		0.00193 J	
	OCD-8A	Apr-14		0.0791	0.0240		< 0.00200		8.18	< 0.00140	3.45	0.0000800 J	0.0285	< 0.00200		0.00185 J	
	OCD-8B	Apr-13		< 0.0250	< 0.0250		< 0.0250		< 1.00	< 0.0250	0.617			< 0.0250			
	KWB-1A	Apr-12		< 0.00500	< 0.0100		< 0.00500		< 0.200	< 0.00500	0.315	< 0.000200	0.00887	< 0.00500		0.0210	
	KWB-1A	Apr-13		< 0.0100	< 0.0100		< 0.0100		< 0.400	< 0.0100	0.349	< 0.000200	< 0.0100	< 0.0100		0.0193	
	KWB-1A	Apr-14		0.00420 J	0.00811 J		< 0.00200		< 0.156	< 0.00140	0.406		0.00847 J	< 0.00200		0.0197	
Field E of Refinery	KWB-1C	Apr-13		< 0.0100	0.0131		< 0.0100		< 0.400	< 0.0100	< 0.0100			< 0.0100			
	KWB-7	Apr-12		< 0.00500	0.0377		< 0.00500		< 0.200	< 0.00500	1.67	< 0.000200	0.0233	< 0.00500		0.0186	
	KWB-7	Apr-13		< 0.00500	0.0429		< 0.00500		< 0.200	< 0.00500	1.72	< 0.000200	0.0201	< 0.00500		0.0116	
	KWB-11A	Apr-12		< 0.00500	0.0195		< 0.00500		< 0.200	< 0.00500	0.00938	< 0.000200	< 0.00500	0.00665		0.0131	
	KWB-11A	Apr-13		< 0.00500	0.0209		< 0.00500		< 0.200	< 0.00500	0.0115	< 0.000200	< 0.00500	0.00781		0.0126	
	KWB-11B	Apr-12		< 0.00500	0.0146		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.00943		0.00822	
	KWB-11B	Apr-13		< 0.00500	0.0149		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0106		0.00824	
	KWB-11B	Apr-14		0.00165 J	0.0142		< 0.00100		< 0.0780	< 0.000700	< 0.00250	< 0.0000420	< 0.00100	0.00946		0.00790	
	KWB-12B	Apr-12		< 0.00500	< 0.0100		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500		0.0122	
	KWB-12B	Apr-13	FD	< 0.0100	< 0.0100		< 0.0100		< 0.400	< 0.0100	< 0.0100	< 0.000200	< 0.0100	< 0.0100		0.0130	
	KWB-12B	Apr-13		< 0.0100	< 0.0100		< 0.0100		< 0.400	< 0.0100	< 0.0100	< 0.000200	< 0.0100	< 0.0100		0.0132	
	KWB-12B	Apr-14	FD	0.00222 J	0.0101		< 0.00200		< 0.156	< 0.00140	< 0.00500	< 0.0000420	< 0.00200	0.00341 J		0.0134	
	KWB-12B	Apr-14		0.00336 J	0.00906		< 0.00100		< 0.0780	< 0.000700	< 0.00250	< 0.0000420	< 0.00100	0.00460 J		0.0133	
	MW-57	Apr-12		0.0157	0.0209		< 0.00500		2.50	< 0.00500	0.761			< 0.00500			
	MW-57	Apr-13		0.0135	0.0245		< 0.00500		0.841	< 0.00500	0.534			< 0.00500			
	MW-57	Apr-14		0.0560	0.0650		< 0.00100		2.67	0.000734 J	1.98			< 0.00100			
	MW-111	Apr-13		0.0132	0.179		< 0.00500		5.56	< 0.00500	1.86	< 0.000200	0.00559	< 0.00500		< 0.00500	
	MW-111	Apr-14		0.0126	0.222		< 0.00100		6.74	< 0.000700	1.68			0.00119 J			
	MW-113	Apr-13		< 0.00500	0.0170		< 0.00500		< 0.200	< 0.00500	0.383	< 0.000200	< 0.00500	< 0.00500		0.0103	
	MW-113	Apr-14		0.00267 J	0.0180		< 0.00100		0.0871 J	< 0.000700	0.387			< 0.00100			
	MW-125	Apr-14		0.00406 J	0.00914		< 0.00100		< 0.0780	< 0.000700	0.395			0.00773			
	MW-126A	Apr-14		0.00366 J	0.0136		< 0.00100		< 0.0780	< 0.000700	0.174			0.00270 J			
	MW-126B	Apr-14		0.00344 J	0.0168		0.00379 J		1.17	< 0.000700	0.930			0.00115 J			
	MW-127	Apr-14		0.00400 J	0.191		< 0.00100		0.685	< 0.000700	0.155			0.00106 J			
	MW-128	Apr-14		0.0563	0.0808		< 0.00100		2.92	< 0.000700	2.29			< 0.00100			
	MW-131	Apr-14		0.0205	2.21		< 0.00100		1.56	< 0.000700	0.384			0.00118 J			
	MW-134	Apr-14		0.00761 J	0.00947 J		< 0.00200		< 0.156	< 0.00140	0.0169			0.00508 J			
	MW-135	Apr-14		0.00316 J	0.0122		< 0.00100		< 0.0780	< 0.000700	0.0111			0.0349			
	RW-18	Apr-12	FD	< 0.00500	< 0.0100		< 0.00500		< 0.200	< 0.00500	< 0.00500			< 0.00500			
	RW-18	Apr-12		< 0.00500	0.0106		< 0.00500		< 0.200	< 0.00500	< 0.00500			< 0.00500			
	RW-18	Apr-13		< 0.0250	< 0.0250		< 0.0250		< 1.00	< 0.0250	< 0.0250			< 0.0250			
	RW-18	Apr-14		0.00353 J	0.0108		< 0.00200		< 0.156	< 0.00140	< 0.00500			0.00864 J			
N Refinery	MW-23	Apr-12		0.0102	9.24		< 0.00500		< 0.200	< 0.00500	0.0840			< 0.00500			
	MW-23	Apr-13		0.00890	8.59		< 0.00500		< 0.200	< 0.00500	0.0924			< 0.00500			
	MW-23	Apr-14		0.0101	9.40		< 0.00100		< 0.0780	0.0107	0.0910			< 0.00100			

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Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
N Refinery	MW-29	Apr-12		< 0.00500	0.0201		< 0.00500		< 0.200	< 0.00500	0.445			< 0.00500			
	MW-29	Apr-13		0.0130	0.0165		< 0.00500		< 0.200	< 0.00500	0.525			< 0.00500			
	MW-29	Apr-14		0.00753	0.0141		< 0.00100		0.241	< 0.000700	0.624 J			< 0.00100			
	MW-40	Apr-12		< 0.00500	0.0253		< 0.00500		< 0.200	< 0.00500	0.0572			< 0.00500			
	MW-40	Apr-13		< 0.00500	0.0262		< 0.00500		< 0.200	< 0.00500	0.0482			< 0.00500			
	MW-40	Apr-14		0.00257 J	0.0271		< 0.00100		< 0.0780	< 0.000700	0.0424			0.00270 J			
	MW-41	Apr-12		0.00982	0.0149		< 0.00500		< 0.200	< 0.00500	0.792			< 0.00500			
	MW-41	Apr-13		0.00690	0.0145		< 0.00500		< 0.200	< 0.00500	0.777			< 0.00500			
	MW-41	Apr-14		0.00640	0.0141		< 0.00100		< 0.0780	< 0.000700	0.847			0.00316 J			
	MW-42	Apr-12		0.0123	0.0240		< 0.00500		0.445	< 0.00500	0.226			< 0.00500			
	MW-42	Apr-13		0.0112	0.0231		< 0.00500		0.416	< 0.00500	0.201			< 0.00500			
	MW-42	Apr-14		0.0135	0.0270		< 0.00100		0.332	< 0.000700	0.189			0.00429 J			
	MW-43	Apr-12		0.00960	0.290		< 0.00500		< 0.200	< 0.00500	0.328	< 0.000200	< 0.00500	< 0.00500		< 0.00500	
	MW-43	Apr-13		0.0100	0.0722		< 0.00500		< 0.200	< 0.00500	0.432	< 0.000200	< 0.00500	< 0.00500		< 0.00500	
	MW-43	Apr-14		0.0102	0.0931		< 0.00100		< 0.0780	< 0.000700	0.439		0.00357 J	< 0.00100		0.00397 J	
	MW-59	Apr-12		0.0199	0.0141		< 0.00500		< 0.200	< 0.00500	0.497			< 0.00500			
	MW-59	Apr-13		0.0318	0.0161		< 0.00500		< 0.200	< 0.0100	0.484			< 0.00500			
	MW-59	Apr-14		0.0324	0.0145		< 0.00100		0.152 J	< 0.000700	0.480			0.00267 J			
	MW-60	Apr-12		0.00681	0.0229		< 0.00500		< 0.200	< 0.00500	0.287	< 0.000200	< 0.00500	< 0.00500		< 0.00500	
	MW-60	Apr-13	FD	0.0128	0.0229		< 0.0100		< 0.400	< 0.0100	0.326	< 0.000200	< 0.0100	< 0.0100		< 0.0100	
	MW-60	Apr-13		0.0131	0.0219		< 0.0100		< 0.400	< 0.0100	0.340	< 0.000200	< 0.0100	< 0.0100		< 0.0100	
	MW-60	Apr-14		0.00796	0.0200		< 0.00100		0.136 J	< 0.000700	0.334		< 0.00100	0.00214 J		< 0.000900	
	MW-61	Apr-12		< 0.00500	0.0259		< 0.00500		< 0.200	< 0.00500	0.0312			< 0.00500			
	MW-61	Apr-13		< 0.00500	0.0267		< 0.00500		< 0.200	< 0.00500	0.0213			< 0.00500			
	MW-61	Apr-14		0.00159 J	0.0310		< 0.00100		< 0.0780	0.00173 J	0.0235			< 0.00100			
	MW-62	Apr-12		< 0.00500	0.411		< 0.00500		< 0.200	< 0.00500	0.0205			< 0.00500			
	MW-62	Apr-13		< 0.00500	0.704		< 0.00500		< 0.200	< 0.00500	0.00658			< 0.00500			
	MW-62	Apr-14		0.00406 J	0.0689		< 0.00100		< 0.0780	< 0.000700	0.00390 J			0.00135 J			
	MW-90	Apr-12	FD	< 0.00500	0.0163		< 0.00500		< 0.200	< 0.00500	0.124			< 0.00500			
	MW-90	Apr-12		< 0.00500	0.0166		< 0.00500		< 0.200	< 0.00500	0.131			< 0.00500			
	MW-90	Apr-13		< 0.00500	0.0174		< 0.00500		< 0.200	< 0.00500	0.0673			< 0.00500			
	MW-90	Apr-14		0.00379 J	0.0166		< 0.00100		< 0.0780	0.000729 J	0.0754			< 0.00100			
	MW-91	Apr-14		0.00323 J	0.115		< 0.00100		< 0.0780	0.00144 J	< 0.00250			< 0.00100			
	MW-93	Apr-12		0.00713	0.0499		0.00562		< 0.200	< 0.00500	0.0255			< 0.00500			
	MW-93	Apr-13		0.00801	0.0634		< 0.00500		< 0.200	< 0.00500	0.0187			< 0.00500			
	MW-93	Apr-14		0.00718	0.0850		0.00207 J		< 0.0780	0.00113 J	0.0408			0.00186 J			
	MW-95	Apr-12		< 0.00500	0.0861		< 0.00500		0.402	< 0.00500	0.137			< 0.00500			
	MW-95	Apr-13		< 0.00500	0.124		< 0.00500		0.560	< 0.00500	0.0657			< 0.00500			
	MW-95	Apr-14		< 0.00100	0.118		< 0.00100		< 0.0780	< 0.000700	0.0413			< 0.00100			
	MW-96	Apr-12		< 0.00500	0.0804		< 0.00500		< 0.200	< 0.00500	0.0189			< 0.00500			
	MW-96	Apr-13		< 0.00500	0.152		< 0.00500		< 0.200	< 0.00500	< 0.00500			< 0.00500			
	MW-96	Apr-14		0.00477 J	0.114		< 0.00100		< 0.0780	< 0.000700	< 0.00250			< 0.00100			
	MW-98	Apr-12		< 0.00500	0.0175		< 0.00500		< 0.200	0.0109	0.0318			< 0.00500			
	MW-98	Apr-13		< 0.00500	0.0152		< 0.00500		< 0.200	0.0102	0.0293			< 0.00500			
	MW-98	Apr-14	FD	0.00239 J	0.0160		0.00142 J		< 0.0780	0.00986	0.0274			0.00200 J			

Table C.3 - Groundwater Analytical Results 2012-2014 - Dissolved Metals
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Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
N Refinery	MW-98	Apr-14		0.00226 J	0.0145		< 0.00100		< 0.0780	0.00912	0.0273			0.00155 J			
	RW-9	Apr-12		< 0.00500	0.0232		< 0.00500		1.24	< 0.00500	0.249			< 0.00500			
	RW-9	Apr-13		< 0.00500	0.0629		< 0.00500		< 0.200	< 0.00500	0.286			< 0.00500			
	RW-9	Apr-14		0.00610	0.0494		< 0.00100		< 0.0780	< 0.000700	0.404			0.00393 J			
	RW-10	Apr-12		0.00522	0.0819		< 0.00500		< 0.200	< 0.00500	0.205			< 0.00500			
	RW-10	Apr-13		< 0.00500	0.0185		< 0.00500		< 0.200	< 0.00500	0.223			< 0.00500			
	RW-10	Apr-14		0.00273 J	0.0186		< 0.00100		0.132 J	< 0.000700	0.212			0.00268 J			
	RW-16	Apr-13		0.0158	0.0167		< 0.00500		< 0.200	< 0.00500	0.498			< 0.00500			
	RW-16	Apr-14	FD	0.0127	0.0141		< 0.00100		0.139 J	< 0.000700	0.611			0.00300 J			
	RW-16	Apr-14		0.0126	0.0139		< 0.00100		0.125 J	< 0.000700	0.601			0.00304 J			
	RW-16A	Apr-12		0.0185	0.0189		< 0.00500		< 0.200	< 0.00500	0.124			0.0167			
	RW-17	Apr-13		0.00825	0.0256		< 0.00500		0.325	< 0.00500	0.710			< 0.00500			
	RW-17	Apr-14		0.0104	0.0219		< 0.00200		0.540	0.00417 J	0.743			< 0.00200			
	RW-17A	Apr-12		0.00744	0.0292		< 0.00500		0.734	0.00959	0.845			< 0.00500			
N RO Reject Field	MW-117	Feb-13		0.00498 J	0.0235	< 0.00080	< 0.0012	0.0141	< 0.078	< 0.00070	0.108	< 0.000042	0.00413 J	0.00427 J	< 0.00080		0.0123
	MW-117	May-13		0.00367 J	0.0113	< 0.00080	< 0.0010	< 0.0010	< 0.078	< 0.00070	0.00978 J	< 0.000042	< 0.0010	0.00585 J	< 0.00080		< 0.0025
	MW-117	Sep-13		0.00559	0.0108	< 0.000800	< 0.00100	< 0.00100	< 0.0780	< 0.000700	0.00502	< 0.0000420	0.00189 J	0.00316 J	< 0.000800		0.00266 J
	MW-117	Nov-13		0.00347 J	0.0108	< 0.000800	< 0.00100	0.00345 J	0.110 J	0.00125 J	0.00982	< 0.0000420	0.00305 J	0.00380 J	< 0.000800		0.0343
	MW-117	Apr-14		0.00328 J	< 0.000900 B		< 0.00100		< 0.0780	< 0.000700	0.0204			0.00425 J			
	MW-118	Feb-13		0.0110	0.0145	< 0.00080	< 0.0012	0.00156 J	< 0.078	< 0.00070	0.0232	0.0000420 J	0.00173 J	0.00861	< 0.00080		< 0.0025
	MW-118	May-13		0.0146	0.00919	< 0.00080	< 0.0010	0.00156 J	< 0.078	< 0.00070	< 0.0025	< 0.000042	0.00184 J	0.0127	< 0.00080		< 0.0025
	MW-118	Sep-13		0.0156	0.00990	< 0.000800	< 0.00100	< 0.00100	< 0.0780	< 0.000700	< 0.00250	< 0.0000420	0.00131 J	0.0129	< 0.000800		< 0.00250
	MW-118	Nov-13		0.0125	0.00964	< 0.000800	0.00105 J	0.00338 J	0.179 J	0.00107 J	0.00526	< 0.0000420	0.00214 J	0.00327 J	< 0.000800		0.0407
	MW-118	Apr-14		0.00974	< 0.000900 B		< 0.00100		< 0.0780	< 0.000700	0.0121			0.00108 J			
	MW-119	Feb-13		0.00294 J	0.00981	< 0.00080	< 0.0012	0.00309 J	< 0.078	< 0.00070	0.0424	< 0.000042	0.00174 J	0.00246 J	< 0.00080		< 0.0025
	MW-119	May-13		0.00537	0.00625	< 0.00080	< 0.0010	0.00137 J	< 0.078	< 0.00070	< 0.0025	< 0.000042	0.00163 J	0.00506	< 0.00080		< 0.0025
	MW-119	Sep-13		0.00595	0.00864	< 0.000800	< 0.00100	< 0.00100	< 0.0780	< 0.000700	< 0.00250	< 0.0000420	0.00140 J	0.00660	< 0.000800		< 0.00250
	MW-119	Nov-13		0.00438 J	0.00973	< 0.000800	0.00116 J	0.00311 J	0.185 J	< 0.000700	0.00459 J			0.00222 J	0.00144 J	< 0.000800	0.0241
	MW-119	Apr-14	FD	0.00461 J	< 0.000900 B		< 0.00100		< 0.0780	< 0.000700	< 0.00250			0.00402 J			
	MW-119	Apr-14		0.00468 J	< 0.000900 B		< 0.00100		< 0.0780	< 0.000700	< 0.00250			0.00393 J			
NCL	MW-18	Apr-12		< 0.00500	0.0159		< 0.00500		< 0.200	< 0.00500	0.00610	< 0.000200	< 0.00500	0.00653		0.0155	
	MW-18	Apr-13	FD	< 0.00500	0.0185		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.00965		0.0157	
	MW-18	Apr-13		< 0.00500	0.0184		< 0.00500		< 0.200	< 0.00500	0.00555	< 0.000200	< 0.00500	0.00971		0.0156	
	MW-18	Apr-14		0.00488 J	0.0183		0.00170 J		< 0.0780	0.000942 J	0.0110	< 0.0000420	0.00102 J	0.0136		0.0161	
	MW-45	Apr-12		0.00955	0.0131		< 0.00500		0.908	< 0.00500	0.378	< 0.000200	0.00962	< 0.00500		< 0.00500	
	MW-45	Apr-13		< 0.00500	0.0179		< 0.00500		0.760	< 0.00500	0.538	< 0.000200	0.00743	< 0.00500		< 0.00500	
	MW-45	Apr-14		0.00354 J	0.0163		< 0.00100		0.690	< 0.000700	0.535	< 0.0000420	0.00756	0.00198 J		< 0.000900	
	MW-53	Apr-12		< 0.00500	0.0231		< 0.00500		< 0.200	< 0.00500	1.09			< 0.00500			
	MW-53	Apr-13		< 0.00500	0.0238		< 0.00500		< 0.200	< 0.00500	0.826			< 0.00500			
	MW-53	Apr-14		0.00316 J	0.0213		< 0.00100		< 0.0780	< 0.000700	0.532			0.00135 J			
	MW-54A	Apr-12		0.00573	0.0179		< 0.00500		< 0.200	< 0.00500	0.523			< 0.00500			
	MW-54A	Apr-13		< 0.00500	0.0183		< 0.00500		< 0.200	< 0.00500	0.498			< 0.00500			
	MW-54A	Apr-14		0.00620	0.0182		< 0.00100		< 0.0780	< 0.000700	0.491			0.00228 J			
	MW-54B	Apr-13		< 0.00500	0.0157		< 0.00500		< 0.200	< 0.00500	0.138			< 0.00500			
	MW-55	Apr-12		0.00615	0.00902		< 0.00500		< 0.200	< 0.00500	0.0963	< 0.000200	0.00541	0.0278		0.0178	

Table C.3 - Groundwater Analytical Results 2012-2014 - Dissolved Metals
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
NCL	MW-55	Apr-13		< 0.00500	0.00863		< 0.00500		< 0.200	< 0.00500	0.0285	< 0.000200	< 0.00500	0.0195		0.0165	
	MW-55	Apr-14	FD	0.00659	0.00871		< 0.00100		< 0.0780	< 0.000700	0.0596	< 0.0000420	0.00345 J	0.0272		0.0156	
	MW-55	Apr-14		0.00641	0.00965		< 0.00100		< 0.0780	< 0.000700	0.0595	< 0.0000420	0.00400 J	0.0253		0.0156	
	MW-56	Apr-12	FD	0.00617	0.0136		< 0.00500		< 0.200	< 0.00500	0.323			< 0.00500			
	MW-56	Apr-12		0.00610	0.0132		< 0.00500		< 0.200	< 0.00500	0.321			< 0.00500			
	MW-56	Apr-13		0.00602	0.0134		< 0.00500		< 0.200	< 0.00500	0.344			< 0.00500			
	MW-56	Apr-14		0.00883	0.0136		< 0.00100		< 0.0780	< 0.000700	0.336			0.00579			
	MW-108	Apr-12		< 0.00500	0.0428		< 0.00500		< 0.200	< 0.00500	0.0287			< 0.00500			
	MW-108	Apr-13		< 0.00500	0.0403		< 0.00500		< 0.200	< 0.00500	0.0169			< 0.00500			
	MW-108	Apr-14		0.00326 J	0.0457		0.00207 J		< 0.0780	0.000952 J	0.0290			< 0.00100			
	NCL-31	Apr-12		0.00895	0.0572		< 0.00500		0.811	< 0.00500	1.56			< 0.00500			
	NCL-31	Apr-13		0.0122	0.0212		< 0.00500		0.892	< 0.00500	1.87			< 0.00500			
	NCL-31	Apr-14		0.0112	0.0194		< 0.00100		0.940	< 0.000700	1.59			< 0.00100			
	NCL-33	Apr-12		< 0.00500	0.0237		< 0.00500		1.46	< 0.00500	0.0967			< 0.00500			
	NCL-33	Apr-13		< 0.00500	0.0269		< 0.00500		2.48	< 0.00500	0.0848			< 0.00500			
	NCL-33	Apr-14		0.00264 J	0.0247		< 0.00100		2.68	< 0.000700	0.0855			0.00104 J			
	NCL-44	Apr-12		0.0488	0.0269		< 0.00500		1.32	< 0.00500	0.643			< 0.00500			
	NCL-44	Apr-13		0.0354	0.0279		< 0.00500		1.30	< 0.00500	0.753			< 0.00500			
	NCL-44	Apr-14		0.0372	0.0289		< 0.00100		1.21	< 0.000700	0.661			< 0.00100			
	NCL-49	Apr-12		< 0.00500	0.0116		< 0.00500		< 0.200	< 0.00500	< 0.00500			0.00626			
	NCL-49	Apr-13		< 0.00500	0.0111		< 0.00500		< 0.200	< 0.00500	< 0.00500			0.00506			
	NCL-49	Apr-14		0.00338 J	0.0112		< 0.00100		< 0.0780	< 0.000700	< 0.00250			0.00503			
S Refinery	MW-28	Apr-12		< 0.00500	0.0374		< 0.00500		< 0.200	< 0.00500	0.0770	< 0.000200	< 0.00500	< 0.00500		< 0.00500	
	MW-28	Apr-13		< 0.00500	0.0467		< 0.00500		< 0.200	< 0.00500	0.0328	< 0.000200	0.00631	< 0.00500		< 0.00500	
	MW-28	Apr-14		0.00396 J	0.131		< 0.00100		< 0.0780	0.00126 J	0.0374	< 0.0000420 J	0.00839	< 0.00100		< 0.000900	
	MW-50	Apr-12		0.00540	0.0148		< 0.00500		< 0.200	< 0.00500	1.02			< 0.00500			
	MW-50	Apr-13		0.00526	0.0194		< 0.00500		< 0.200	< 0.00500	1.21			< 0.00500			
	MW-50	Apr-14		< 0.00100	0.0202		< 0.00100		< 0.0780	0.000770 J	1.38			< 0.00100			
	MW-52	Apr-12		< 0.00500	0.00951		< 0.00500		< 0.200	< 0.00500	0.0773	< 0.000200	0.00595	< 0.00500		0.0247	
	MW-52	Apr-13		< 0.00500	0.00941		< 0.00500		< 0.200	< 0.00500	0.0729	< 0.000200	< 0.00500	< 0.00500		0.0237	
	MW-52	Apr-14	FD	0.00352 J	0.00895		< 0.00100		< 0.0780	< 0.000700	0.0339	< 0.0000420	0.00416 J	0.00225 J		0.0250	
	MW-52	Apr-14		0.00375 J	0.00869		< 0.00100		< 0.0780	< 0.000700	0.0328	< 0.0000420	0.00448 J	0.00265 J		0.0256	
	MW-66	Apr-12		< 0.00500	1.58		< 0.00500		< 0.200	< 0.00500	0.310	< 0.000200	0.00937	< 0.00500		< 0.00500	
	MW-66	Apr-13		< 0.00500	1.72		< 0.00500		0.452	< 0.00500	0.286	< 0.000200	0.00912	< 0.00500		< 0.00500	
	MW-66	Apr-14		0.00139 J	1.47		< 0.00100		0.480 J	< 0.000700	0.294	< 0.0000420 J	0.00861	< 0.00100		< 0.000900	
	MW-101	Apr-12		0.0121	0.109		< 0.00500		0.488	< 0.00500	0.964			< 0.00500			
	MW-101	Apr-13		0.0113	0.104		< 0.00500		0.500	< 0.00500	0.928			< 0.00500			
	MW-101	Apr-14		0.0378 J	0.0718		0.00404 J		1.64 J	< 0.000700	1.16			< 0.00100			
	MW-103	Apr-12		< 0.00500	0.654		< 0.00500		< 0.200	< 0.00500	0.00557			< 0.00500			
	MW-103	Apr-13		< 0.00500	0.821		< 0.00500		< 0.200	< 0.00500	< 0.00500			< 0.00500			
	MW-103	Apr-14		< 0.00100	0.988		< 0.00100		< 0.0780	0.00106 J	< 0.00250			< 0.00100			
	MW-104	Apr-12		0.00517	0.0161		< 0.00500		< 0.200	< 0.00500	0.0250			< 0.00500			
	MW-104	Apr-13		< 0.00500	0.0194		< 0.00500		< 0.200	< 0.00500	0.0247			< 0.00500			
	MW-104	Apr-14	FD	< 0.00100	0.0190		< 0.00100		< 0.0780	< 0.000700	0.0215			< 0.00100			
	MW-104	Apr-14		< 0.00100	0.0195		< 0.00100		< 0.0780	< 0.000700	0.0236			< 0.00100			

Table C.3 - Groundwater Analytical Results 2012-2014 - Dissolved Metals
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Navajo Refining, Artesia, New Mexico

Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
S Refinery	MW-106	Apr-12		< 0.00500	0.0202		< 0.00500		< 0.200	< 0.00500	< 0.00500			< 0.00500			
	MW-106	Apr-13		0.00677	0.0276		< 0.00500		< 0.200	< 0.00500	0.0134			< 0.00500			
	MW-106	Apr-14		0.00920	0.0328		0.00126 J		< 0.0780	0.00309 J	0.0125			0.00137 J			
	MW-107	Apr-12	FD	0.00829	1.63		< 0.00500		5.45	< 0.00500	0.458			< 0.00500			
	MW-107	Apr-12		0.00735	1.73		< 0.00500		6.15	< 0.00500	0.425			< 0.00500			
	MW-107	Apr-13		0.00762	2.24		< 0.00500		9.40	< 0.00500	0.292			< 0.00500			
	MW-107	Apr-14		0.00681	2.58		< 0.00100		10.8	< 0.000700	0.289			< 0.00100			
	MW-109	Apr-12		0.0284	0.573		< 0.00500		1.25	< 0.00500	0.461			< 0.00500			
	MW-109	Apr-13		0.0269	0.576		< 0.00500		0.784	< 0.00500	0.402			< 0.00500			
	MW-109	Apr-14		0.0226	0.396		< 0.00100		0.603	< 0.000700	0.332			0.00138 J			
	MW-110	Apr-12		0.0358	0.0812		< 0.00500		1.30	< 0.00500	2.39			< 0.00500			
	MW-110	Apr-13		0.0355	0.0643		< 0.00500		1.30	< 0.00500	2.39			< 0.00500			
	MW-110	Apr-14		0.0307	0.0633		< 0.00100		1.08	< 0.000700	1.60			0.00133 J			
	MW-130	Apr-14		0.00434 J	0.0238		< 0.00100		0.0912 J	< 0.000700	0.130			0.00713			
S RO Reject Field	MW-114	Feb-13		0.00561	0.0204	< 0.00080	< 0.0012	< 0.0015	< 0.078	< 0.00070	1.51	< 0.000042	0.00651	0.00222 J	< 0.00080		0.00343 J
	MW-114	May-13		0.00437 J	0.0129	< 0.00080	< 0.0010	< 0.0010	< 0.078	< 0.00070	0.844	< 0.000042	0.00410 J	0.00636	< 0.00080		< 0.0025
	MW-114	Sep-13		0.00502	0.0170	< 0.000800	< 0.00100	0.00197 J	< 0.0780	< 0.000700	1.42	< 0.0000420	0.00558	0.00245 J	< 0.000800		< 0.00250
	MW-114	Nov-13		0.00539	0.0112	< 0.000800	0.00119 J	< 0.00100	0.167 J	< 0.000700	0.0350		0.00369 J	0.00451 J	< 0.000800		0.0806
	MW-114	Apr-14		0.00297 J	0.0136		< 0.00100		< 0.0780	< 0.000700	1.13			< 0.00100			
	MW-115	Feb-13		0.00499 J	0.0309	< 0.00080	< 0.0012	0.00704	< 0.078	< 0.00070	0.255	< 0.000042	0.00483 J	0.00810	< 0.00080		0.00973
	MW-115	May-13	FD	0.00427 J	0.0110	< 0.00080	< 0.0010	0.00151 J	< 0.078	< 0.00070	0.0230	< 0.000042	0.00225 J	0.00734	< 0.00080		< 0.0025
	MW-115	May-13		0.00478 J	0.0107	< 0.00080	< 0.0010	< 0.0010	< 0.078	< 0.00070	0.0267	< 0.000042	< 0.0010	0.00654 J	< 0.00080		0.00821 J
	MW-115	Sep-13		0.00467 J	0.0106	< 0.000800	< 0.00100	< 0.00100	< 0.0780	< 0.000700	0.0362	< 0.0000420	0.00208 J	0.00568	< 0.000800		< 0.00250
	MW-115	Nov-13		0.00616	0.0110	< 0.000800	< 0.00100	< 0.00100	< 0.0780	< 0.000700	0.0249		0.00206 J	0.00506	< 0.000800		0.0257
	MW-115	Apr-14		0.00368 J	0.00870		< 0.00100		< 0.0780	< 0.000700	0.0216			0.00166 J			
	MW-116	Feb-13		0.00274 J	0.0161	< 0.00080	< 0.0012	< 0.0015	< 0.078	< 0.00070	0.0437	0.000131 J	0.00120 J	0.00203 J	< 0.00080		< 0.0025 B
	MW-116	May-13		0.00502	0.0111	< 0.00080	0.00119 J	0.00176 J	0.201	< 0.00070	0.0342	0.0000460 J	0.00204 J	0.00733	< 0.00080		< 0.0025
	MW-116	Sep-13	FD	0.00467 J	0.00946	< 0.000800	< 0.00100	< 0.00100	< 0.0780	< 0.000700	0.00366 J	0.0000600 J	0.00112 J	0.00558	< 0.000800		< 0.00250
	MW-116	Sep-13		0.00535	0.00928	< 0.000800	< 0.00100	< 0.00100	< 0.0780	< 0.000700	0.00478 J	0.0000610 J	0.00115 J	0.00493 J	< 0.000800		< 0.00250
	MW-116	Nov-13	FD	0.00526	0.0110	< 0.000800	< 0.00100	< 0.00100	0.132 J	< 0.000700	0.00576		0.00144 J	0.00582	< 0.000800		0.0218
	MW-116	Nov-13		0.00525	0.00989	< 0.000800	< 0.00100	< 0.00100	< 0.0780	< 0.000700	0.00920		0.00245 J	0.00611	< 0.000800		0.0311
	MW-116	Apr-14		0.00348 J	0.00950		< 0.00100		< 0.0780	< 0.000700	< 0.00250			0.00563			
TEL	MW-49	Apr-12	FD	0.00556	0.0413		< 0.00500		< 0.200	< 0.00500	0.267	< 0.000200	0.00985	< 0.00500		< 0.00500	
	MW-49	Apr-12		0.00618	0.0460		< 0.00500		< 0.200	< 0.00500	0.285	< 0.000200	0.0108	< 0.00500		< 0.00500	
	MW-49	Apr-13	FD	0.00734	0.0398		< 0.00500		< 0.200	< 0.00500	0.301	< 0.000200	0.00930	< 0.00500		< 0.00500	
	MW-49	Apr-13		0.00700	0.0402		< 0.00500		< 0.200	< 0.00500	0.294	< 0.000200	0.00912	< 0.00500		< 0.00500	
	MW-49	Apr-14		0.00460 J	0.0376		< 0.00100		< 0.0780	< 0.000700	0.333	< 0.0000420	0.00825	< 0.00100		< 0.000900	
	TEL-1	Apr-12	FD	0.00831	0.0121		< 0.00500		< 0.200	< 0.00500	0.0750			< 0.00500			
	TEL-1	Apr-12		0.00796	0.0114		< 0.00500		< 0.200	< 0.00500	0.0734			< 0.00500			
	TEL-1	Apr-13		0.00553	0.0120		< 0.00500		< 0.200	< 0.00500	0.147			< 0.00500			
	TEL-1	Apr-14	FD	0.00428 J	0.0131 J		< 0.00100		< 0.0780	< 0.000700	0.0909 J			0.00110 J			
	TEL-1	Apr-14		0.00400 J	0.0127		< 0.00100		< 0.0780	< 0.000700	0.0837			< 0.00100			
	TEL-2	Apr-12		0.0107	0.0663		< 0.00500		< 0.200	< 0.00500	0.0141			< 0.00500			
	TEL-2	Apr-13		0.0130	0.0510		< 0.00500		< 0.200	< 0.00500	0.0157			< 0.00500			
	TEL-2	Apr-14		0.0119	0.0745		< 0.00100		< 0.0780	0.00246 J	0.0107			< 0.00100			

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Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
TEL	TEL-3	Apr-12		< 0.00500	0.0122		< 0.00500		< 0.200	< 0.00500	0.00866			< 0.00500			
	TEL-3	Apr-13		< 0.00500	0.0140		< 0.00500		< 0.200	< 0.00500	0.0121			< 0.00500			
	TEL-3	Apr-14		0.00303 J	0.0129		0.00193 J		< 0.0780	< 0.000700	0.0105			< 0.00100			
	TEL-4	Apr-12		0.00926	0.0334		< 0.00500		< 0.200	< 0.00500	1.09			< 0.00500			
	TEL-4	Apr-13		0.00967	0.0299		0.00864		< 0.200	< 0.00500	0.577			< 0.00500			
	TEL-4	Apr-14		0.0125	0.0349		0.00884		< 0.0780	0.00196 J	0.444			< 0.00100			
TMD	MW-16	Apr-12		< 0.00500	0.0152		< 0.00500		< 0.200	< 0.00500	0.102			< 0.00500			
	MW-16	Apr-13		< 0.0100	0.0167		< 0.0100		< 0.400	< 0.0100	0.0509			< 0.0100			
	MW-16	Apr-14		0.00546	0.0144		< 0.00100		< 0.0780	< 0.000700	0.125			< 0.00100			
	MW-20	Apr-12		0.00705	0.00839		< 0.00500		< 0.200	< 0.00500	0.0678			0.00849			
	MW-20	Apr-13		< 0.0100	< 0.0100		< 0.0100		< 0.400	< 0.0100	0.0569			0.0153			
	MW-20	Apr-14	FD	0.00848	0.0103		< 0.00100		< 0.0780	< 0.000700	0.0647			0.0220			
	MW-20	Apr-14		0.00931	0.00977		< 0.00100		< 0.0780	< 0.000700	0.0645			0.0205			
	MW-21	Apr-12		0.00590	0.00907		< 0.00500		< 0.200	< 0.00500	0.445			0.0274			
	MW-21	Apr-13		< 0.0100	< 0.0100		< 0.0100		< 0.400	< 0.0100	0.272			0.0319			
	MW-21	Apr-14		0.00845	0.00996		< 0.00100		< 0.0780	< 0.000700	0.422			0.0368			
	MW-25	Apr-12		< 0.00500	0.0105		< 0.00500		< 0.200	< 0.00500	0.117			< 0.00500			
	MW-25	Apr-13		< 0.00500	0.0106		< 0.00500		< 0.200	< 0.00500	0.0832			< 0.00500			
	MW-25	Apr-14		0.00575 J	0.0277		< 0.00200		< 0.156	< 0.00140	0.121			0.00885 J			
	MW-26	Apr-12		< 0.00500	0.00848		< 0.00500		< 0.200	< 0.00500	0.131			0.00644			
	MW-26	Apr-13		< 0.0100	< 0.0100		< 0.0100		< 0.400	< 0.0100	0.0589			< 0.0100			
	MW-26	Apr-14		0.00617 J	0.00866 J		< 0.00200		< 0.156	< 0.00140	0.520			0.0309			
	MW-27	Apr-12		< 0.00500	0.0156		< 0.00500		< 0.200	< 0.00500	0.00532			0.0166			
	MW-27	Apr-13		< 0.00500	0.0168		< 0.00500		< 0.200	< 0.00500	0.0118			0.0262			
	MW-27	Apr-14		0.00355 J	0.0150		< 0.00100		< 0.0780	< 0.000700	0.00617			0.0193			
	MW-46R	Apr-12		0.0126	0.0104		< 0.00500		< 0.200	< 0.00500	0.0106			0.0174			
	MW-46R	Apr-13		< 0.00500	0.0121		< 0.00500		< 0.200	< 0.00500	0.0424			0.00600			
	MW-46R	Apr-14		0.00348 J	0.0120		< 0.00100		0.00908 J	< 0.000700	0.0925			0.00666			
	MW-68	Apr-12		< 0.00500	0.0170		< 0.00500		< 0.200	< 0.00500	< 0.00500			0.0366			
	MW-68	Apr-13		< 0.00500	0.0138		< 0.00500		< 0.200	< 0.00500	< 0.00500			0.0316			
	MW-68	Apr-14		0.00413 J	0.0135		< 0.00100		< 0.0780	< 0.000700	< 0.00250			0.0302			
	MW-71	Apr-12		< 0.00500	0.00908		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.0342		0.0224	
	MW-71	Apr-13	FD	< 0.0100	0.0107		< 0.0100		< 0.400	< 0.0100	< 0.0100	< 0.000200	< 0.0100	0.0421		0.0240	
	MW-71	Apr-13		< 0.0100	0.0107		< 0.0100		< 0.400	< 0.0100	< 0.0100	< 0.000200	< 0.0100	0.0405		0.0245	
	MW-71	Apr-14		0.00573	0.0102		< 0.00100		< 0.0780	< 0.000700	< 0.00250	< 0.0000420	0.00155 J	0.0499		0.0255	
	MW-8	Apr-12		0.00553	0.0125		< 0.00500		< 0.200	< 0.00500	0.654			0.0302			
	MW-8	Apr-13		< 0.0100	0.0114		< 0.0100		< 0.400	< 0.0100	0.584			0.0213			
	MW-8	Apr-14		0.00898	0.0116		< 0.00100		< 0.0780	< 0.000700	0.587			0.0295			
	MW-89	Apr-12		0.00904	0.0148		< 0.00500		< 0.200	< 0.00500	0.446			0.0351			
	MW-89	Apr-13		0.0127	0.0122		< 0.00500		< 0.200	< 0.00500	0.707			< 0.00500			
	MW-89	Apr-14		0.00959	0.0135		< 0.00100		< 0.0780	< 0.000700	0.528			0.0182			
Upgradient	UG-1	Apr-12		< 0.00500	0.0141		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	0.00601		0.0108	
	UG-1	Apr-13		< 0.00500	0.0121		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500		0.0108	
	UG-1	Apr-14		0.00288 J	0.0120		0.00187 J		< 0.0780	< 0.000700	< 0.00250	< 0.0000420	< 0.00100	0.00635		0.0107	
	UG-2	Apr-12		< 0.00500	0.0162		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500		0.0130	

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Analyte:				Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.01	1	0.005	0.05	1	1	0.015	0.2	0.002	0.2	0.05	0.05	0.0631	10
CGWSL Source:				USEPA MCL	WQCC HH	USEPA MCL	WQCC HH	WQCC Dom	WQCC Dom	USEPA MCL	WQCC Dom	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	NMED TW	WQCC Dom
Location Name	Location	Date	Dup														
Upgradient	UG-2	Apr-13	FD	< 0.00500	0.0153		< 0.00500		< 0.200	< 0.00500	0.0514	< 0.000200	0.00997	< 0.00500		0.0173	
	UG-2	Apr-13		< 0.00500	0.0153		< 0.00500		< 0.200	< 0.00500	0.0521	< 0.000200	0.0102	< 0.00500		0.0181	
	UG-2	Apr-14		0.00625	0.0147		< 0.00100		0.334	< 0.000700	0.346	< 0.0000420	0.0537	0.00369 J		0.0142	
	UG-3R	Apr-12	FD	< 0.00500	0.0154		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500		0.00832	
	UG-3R	Apr-12		< 0.00500	0.0157		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500		0.00826	
	UG-3R	Apr-13		< 0.00500	0.0143		< 0.00500		< 0.200	< 0.00500	< 0.00500	< 0.000200	< 0.00500	< 0.00500		0.00822	
	UG-3R	Apr-14	FD	0.00310 J	0.0172		< 0.00100		< 0.0780	< 0.000700	< 0.00250	< 0.0000420	< 0.00100	0.00460 J		0.00834	
	UG-3R	Apr-14		0.00253 J	0.0175		< 0.00100		< 0.0780	< 0.000700	< 0.00250	< 0.0000420	< 0.00100	0.00422 J		0.00799	

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Analyte: Units: CGWSL: CGWSL Source:				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
Location Name	Location	Date	Dup		WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
Crossgradient	KWB-13	Apr-12								
	KWB-13	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-13	Apr-14			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-13	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	NP-5	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NP-5	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NP-5	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-3156	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-3156	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-3156	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-3156	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
EP	RA-3156	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-1R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-1R	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-1R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-1R	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-2A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-2A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-2A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-2A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-2A	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-2A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-3	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-3	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-3	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-3	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-3	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-3	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-3	Nov-14	FD	< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-4A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-4A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-4A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-4A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-4A	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-4A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-4B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-5A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-5B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5C	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-6A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MW-6A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	---	0.06	0.01	0.005	0.025	0.007	0.015
				CGWSL Source:		WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
EP	MW-6A	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-6B	Mar-13	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-6B	Mar-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-7A	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-7A	Sep-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-7A	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-7A	Nov-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-7A	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-7A	Nov-14	FD		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-7A	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-7B	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-10	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-10	Sep-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-10	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-10	Nov-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-10	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-10	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-11A	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-11A	Mar-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-11A	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-11B	Mar-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-120	Oct-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-120	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-120	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-121	Oct-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-121	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-121	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-122	Oct-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-122	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-122	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-123	Nov-13	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-123	Nov-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-123	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-123	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-124	Nov-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-124	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-124	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-15	Apr-12	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-15	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-15	Mar-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-15	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-18A	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-18A	Sep-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-18A	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-18A	Nov-13	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

				Analyte:	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	---	0.06	0.01	0.005	0.025	0.007	0.015
				CGWSL Source:		WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
Location Name	Location	Date	Dup								
EP	MW-18A	Nov-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18A	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-18A	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-18B	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-22A	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-22A	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-22A	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-22A	Nov-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-22A	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-22A	Nov-14	FD		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-22A	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-22B	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-70	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-70	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-70	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-70	Nov-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-70	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-70	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-72	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-72	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-72	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-72	Nov-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-72	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-73	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-73	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-73	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-73	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0053
	MW-73	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0021 J
	MW-74	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-74	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-74	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-74	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-74	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0019 J
	MW-74	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.0012
	MW-75	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-75	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-75	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-75	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-75	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-75	Nov-14			< 0.0019	< 0.0016	< 0.00065	< 0.0019	< 0.0013	< 0.0020	< 0.0019
	MW-76	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-76	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-76	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-76	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-76	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	---	0.06	0.01	0.005	0.025	0.007	0.015
				CGWSL Source:		WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
EP	MW-76	Nov-14			< 0.0019	< 0.0016	< 0.00065	< 0.0019	< 0.0013	< 0.0020	0.0026 J
	MW-77	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-77	Sep-12				< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-77	Mar-13				< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-77	Oct-13	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-77	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-77	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0019 J
	MW-77	Nov-14			< 0.0019	< 0.0016	< 0.00065	< 0.0019	< 0.0013	< 0.0020	0.0053
	MW-78	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-78	Mar-13				< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-78	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-79	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Sep-12	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-79	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-80	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-80	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-80	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-81	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-81	Mar-13	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-81	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-81	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-82	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-82	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-82	Apr-14	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-82	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-83	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0060
	MW-83	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-83	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-83	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-83	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-83	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-84	Mar-12	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Mar-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Mar-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-84	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-87	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-87	Sep-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-87	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:						
				Units:						
				CGWSL:						
				CGWSL Source:						
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
					WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
EP	MW-87	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-87	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-87	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-88	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-88	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-88	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-88	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-88	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-88	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	OCD-1R	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-1R	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-1R	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-1R	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	OCD-1R	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	OCD-2A	Mar-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-2A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-2A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-2A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-2A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-2A	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	OCD-2A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	OCD-3	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-3	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-3	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-3	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-3	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	OCD-3	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	OCD-4	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-4	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-4	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-4	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-4	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	OCD-4	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	OCD-5	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-5	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-5	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-5	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-5	Apr-14	FD		< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	OCD-5	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	OCD-5	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	OCD-6	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-6	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-6	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-6	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-6	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:						
				Units:						
				CGWSL Source:						
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
				CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
EP	OCD-6	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	OCD-7AR	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-7AR	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-7AR	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-7AR	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-7AR	Apr-14	FD		< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0016 J
	OCD-7AR	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0017 J
	OCD-7AR	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.00054 J
	OCD-7B	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Sep-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Apr-14	FD		< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	OCD-8A	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0010 J
	OCD-8A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	OCD-8B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Field E of Refinery	KWB-1A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-1A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-1A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-1A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-1A	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	KWB-1A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	KWB-1C	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-7	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-7	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-7	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-7	Nov-14		< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.21
	KWB-10R	Nov-14		< 0.0096	< 0.0080	< 0.0032	< 0.0096	< 0.0065	< 0.01	0.41
	KWB-11A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11A	Nov-14	FD	< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.047
	KWB-11A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.052
	KWB-11B	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11B	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11B	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.23
	KWB-11B	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	KWB-12A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	KWB-12A	Nov-14	FD	< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:						
				Units:						
				CGWSL:						
				CGWSL Source:						
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
					WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
Field E of Refinery	KWB-12B	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Apr-14	FD		< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	KWB-12B	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	KWB-12B	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	KWB-P4	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-57	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-58	Oct-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.093
	MW-58	Nov-14		< 0.0096	< 0.0080	< 0.0032	< 0.0096	< 0.0065	< 0.01	0.86
	MW-111	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-111	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0053
	MW-111	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0021 J
	MW-111	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.0074
	MW-112	Nov-14		< 0.0096	< 0.0080	< 0.0032	< 0.0096	< 0.0065	< 0.01	0.35
	MW-113	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-113	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0097
	MW-113	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.058
	MW-113	Nov-14	FD	< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.039
	MW-113	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.041
	MW-125	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-125	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-126A	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0030 J
	MW-126A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-126B	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-126B	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-127	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.29
	MW-127	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.078
	MW-128	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0095
	MW-128	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.0028
	MW-129	Nov-14		< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.014
	MW-131	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.23
	MW-131	Nov-14		< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.058
	MW-133	Nov-14		< 0.038	< 0.032	< 0.013	< 0.038	< 0.026	< 0.04	0.28
	MW-134	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-134	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-135	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:						
				Units:						
				CGWSL:						
				CGWSL Source:						
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
					WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
Field E of Refinery	MW-135	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	RA-4196	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Nov-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	RA-4798	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4798	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4798	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4798	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4798	Apr-14	FD		< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	RA-4798	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	RA-4798	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	---	0.06	0.01	0.005	0.025	0.007	0.015
				CGWSL Source:		WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
Field E of Refinery	RW-18	Apr-12	FD								
	RW-18	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-18	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-18	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
N Refinery	MW-23	Apr-12				< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-23	Oct-12				< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-23	Apr-13				< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-23	Oct-13				< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-23	Apr-14				< 0.010	< 0.010	< 0.010	< 0.0080	< 0.010	0.020 J
	MW-23	Nov-14			< 0.019	< 0.016	< 0.0065	< 0.019	< 0.013	< 0.02	0.37
	MW-29	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-29	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-29	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-29	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-29	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-29	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-39	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.064
	MW-40	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-40	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-40	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-41	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-41	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-41	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-41	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-41	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-41	Nov-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-42	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.069
	MW-42	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.054
	MW-42	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.094
	MW-42	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.11
	MW-42	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.063
	MW-43	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.041
	MW-43	Oct-12	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.043
	MW-43	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.043
	MW-43	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.012
	MW-43	Oct-13	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.11
	MW-43	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.11
	MW-43	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.029
	MW-43	Nov-14			< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.027
	MW-59	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-59	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-59	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-60	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-60	Oct-12	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0067
	MW-60	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0090
	MW-60	Apr-13	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:						
				Units:						
				CGWSL:						
				CGWSL Source:						
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
					WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
N Refinery	MW-60	Apr-13								
	MW-60	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-60	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-60	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0029 J
	MW-60	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-61	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.22
	MW-61	Oct-12			< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.16
	MW-61	Apr-13			< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.19
	MW-61	Oct-13			< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.20
	MW-61	Apr-14			< 0.0025	< 0.0025	< 0.0025	< 0.0020	< 0.0025	0.20
	MW-61	Nov-14		< 0.019	< 0.016	< 0.0065	< 0.019	< 0.013	< 0.02	0.43
	MW-62	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.11
	MW-62	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.13
	MW-62	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.088
	MW-62	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.48
	MW-62	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.27 E
	MW-62	Nov-14		< 0.019	< 0.016	< 0.0065	< 0.019	< 0.013	< 0.02	< 0.019
	MW-67	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.029
	MW-67	Nov-14		< 0.0019	< 0.0016	< 0.00065	< 0.0019	< 0.0013	< 0.0020	0.0050 J
	MW-90	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-90	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-91	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.27
	MW-91	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.26
	MW-91	Apr-14			< 0.0025	< 0.0025	< 0.0025	< 0.0020	< 0.0025	0.22
	MW-91	Nov-14		< 0.096	< 0.08	< 0.032	< 0.096	< 0.065	< 0.1	0.18 J
	MW-93	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.26
	MW-93	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.23
	MW-93	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.28
	MW-93	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.30
	MW-93	Apr-14			< 0.0025	< 0.0025	< 0.0025	< 0.0020	< 0.0025	0.37
	MW-93	Nov-14		< 0.019	< 0.016	< 0.0065	< 0.019	< 0.013	< 0.02	0.24
	MW-94	Nov-14		< 0.0077	< 0.0064	< 0.0026	< 0.0077	< 0.0052	< 0.0080	0.54
	MW-95	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-95	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-95	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-96	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-96	Oct-12			< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-96	Apr-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-96	Oct-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-96	Apr-14			< 0.012	< 0.012	< 0.012	< 0.010	< 0.012	0.019 J

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	---	0.06	0.01	0.005	0.025	0.007	0.015
				CGWSL Source:		WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
N Refinery	MW-96	Nov-14			< 0.0096	< 0.0080	< 0.0032	< 0.0096	< 0.0065	< 0.01	< 0.0093
	MW-98	Apr-12				< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.37
	MW-98	Oct-12				< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.46
	MW-98	Apr-13				< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.41
	MW-98	Oct-13				< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.42
	MW-98	Apr-14	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	0.46
	MW-98	Apr-14				< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	0.44
	MW-98	Nov-14			< 0.096	< 0.08	< 0.032	< 0.096	< 0.065	< 0.1	0.34
	RW-9	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-9	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0070
	RW-9	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0065
	RW-10	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.021
	RW-10	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-10	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	RW-16	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-16	Apr-14	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	RW-16	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	RW-16A	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-17	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-17	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	RW-17A	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
N RO Reject Field	MW-117	Feb-13				< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-117	May-13				< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-117	Sep-13				< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-117	Nov-13				< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-117	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-117	Nov-14	FD		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-117	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-118	Feb-13				< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-118	May-13				< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-118	Sep-13				< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-118	Nov-13				< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-118	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-118	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-119	Feb-13				< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-119	May-13				< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-119	Sep-13				< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-119	Nov-13				< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-119	Apr-14	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-119	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-119	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:						
				Units:						
				CGWSL:						
				CGWSL Source:						
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
					WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
NCL	MW-18	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-45	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-45	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-45	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-45	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-45	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-45	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-53	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-53	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-53	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-54A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-54A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-54A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-54A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-54A	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-54A	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-54B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Apr-14	FD		< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-55	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-55	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-56	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-56	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:						
				Units:						
				CGWSL:						
				CGWSL Source:						
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
					WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
NCL	MW-108	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.029
	MW-108	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.029
	MW-108	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.030
	MW-108	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.024
	MW-108	Apr-14			< 0.00050	< 0.00050	0.00063 J	< 0.00040	< 0.00050	0.031
	MW-108	Nov-14		< 0.0019	< 0.0016	< 0.00065	< 0.0019	< 0.0013	< 0.0020	0.039
	NCL-31	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-31	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-31	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-31	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-31	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	NCL-32	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	NCL-33	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-33	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-33	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-33	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-33	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	NCL-33	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	NCL-34A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.18
	NCL-34A	Nov-14		< 0.0019	< 0.0016	< 0.00065	< 0.0019	< 0.0013	< 0.0020	0.11
	NCL-44	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-44	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-44	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-44	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-44	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	NCL-44	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	NCL-49	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	NCL-49	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	NCL-49	Nov-14	FD		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040
S Refinery	KWB-2R	Nov-14		< 0.0096	< 0.0080	< 0.0032	< 0.0096	< 0.0065	< 0.01	0.79
	KWB-4	Oct-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	KWB-5	Nov-14		< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	< 0.0037
	KWB-6	Nov-14		< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.26
	MW-28	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.12
	MW-28	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.010
	MW-28	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-28	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-28	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.00069 J
	MW-28	Nov-14		< 0.0096	< 0.0080	< 0.0032	< 0.0096	< 0.0065	< 0.01	0.12
	MW-48	Nov-14		< 0.0096	< 0.0080	< 0.0032	< 0.0096	< 0.0065	< 0.01	0.2

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:						
				Units:						
				CGWSL:						
				CGWSL Source:						
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
					WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
S Refinery	MW-50	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-50	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-50	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-50	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-50	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-50	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-52	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Apr-14	FD		< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-52	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-52	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-65	Nov-14		< 0.019	< 0.016	< 0.0065	< 0.019	< 0.013	< 0.02	0.06
	MW-66	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Oct-13			< 0.0050 J	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-66	Nov-14		< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.012
	MW-99	Nov-14		< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.33
	MW-101	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-101	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-101	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-101	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-101	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0022 J
	MW-101	Nov-14		< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	< 0.0037
	MW-102	Nov-14		< 0.019	< 0.016	< 0.0065	< 0.019	< 0.013	< 0.02	0.26
	MW-103	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-103	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-103	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.015
	MW-104	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-104	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-104	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-104	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-104	Apr-14	FD		< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-104	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-104	Nov-14	FD	< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	< 0.0037
	MW-104	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-105	Nov-14		< 0.096	< 0.08	< 0.032	< 0.096	< 0.065	< 0.1	0.11 J
	MW-106	Apr-12			< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.089
	MW-106	Oct-12			< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.047
	MW-106	Apr-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.16

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:						
				Units:						
				CGWSL:						
				CGWSL Source:						
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				---	0.06	0.01	0.005	0.025	0.007	0.015
					WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
S Refinery	MW-106	Oct-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.12
	MW-106	Apr-14			< 0.010	< 0.010	< 0.010	< 0.0080	< 0.010	0.097 J
	MW-107	Apr-12	FD		< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.098
	MW-107	Apr-12			< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.10
	MW-107	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.075
	MW-107	Apr-13			< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.052
	MW-107	Oct-13			< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.030
	MW-107	Apr-14			< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	0.017 J
	MW-107	Nov-14		< 0.0038	< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.031
	MW-109	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0085
	MW-109	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0073
	MW-109	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-109	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-109	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0027 J
	MW-109	Nov-14		< 0.00038 J5J3	< 0.00032	< 0.00013 J5J3	< 0.00038 J5J3	< 0.00026 J3	< 0.00040	0.00063 J3
	MW-110	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.021
	MW-110	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0065
	MW-110	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.016
	MW-110	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-110	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.030
	MW-110	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.0010
	MW-130	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-130	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	RA-313	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-313	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-313	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
S RO Reject Field	MW-114	Feb-13			< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-114	May-13			< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-114	Sep-13			< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-114	Nov-13			< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-114	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-114	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-115	Feb-13			< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-115	May-13	FD		< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-115	May-13			< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-115	Sep-13			< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-115	Nov-13			< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-115	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-115	Nov-14		< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-116	Feb-13			< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-116	May-13			< 0.00030	< 0.00050	< 0.00030	< 0.00030	< 0.00050	
	MW-116	Sep-13	FD		< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-116	Sep-13			< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-116	Nov-13	FD		< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	
	MW-116	Nov-13			< 0.00020	< 0.00050	< 0.00030	< 0.00020	< 0.00020	

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	---	0.06	0.01	0.005	0.025	0.007	0.015
				CGWSL Source:		WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
Location Name	Location	Date	Dup								
S RO Reject Field	MW-116	Apr-14									
	MW-116	Nov-14									
	MW-49	Apr-12	FD		< 0.00038	< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-49	Apr-12				< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-49	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.043
	MW-49	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.044
	MW-49	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.033
	MW-49	Apr-13	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.027
	MW-49	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.026
	MW-49	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.043
	MW-49	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.022
	MW-49	Nov-14			< 0.00077	< 0.00064	< 0.00026	< 0.00077	< 0.00052	< 0.00080	0.017
	TEL-1	Apr-12	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Oct-12	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Apr-14	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0012 J
	TEL-1	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.0012 J
	TEL-1	Nov-14			< 0.00038	< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.00086 J
	TEL-2	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.15
	TEL-2	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.15
	TEL-2	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.19
	TEL-2	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.17
	TEL-2	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.20
	TEL-2	Nov-14		< 0.0038		< 0.0032	< 0.0013	< 0.0038	< 0.0026	< 0.0040	0.14
	TEL-3	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.022
	TEL-3	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.023
	TEL-3	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.022
	TEL-3	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.024
	TEL-3	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.027
	TEL-3	Nov-14		< 0.00038		< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	0.016
	TEL-4	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.063
	TEL-4	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.064
	TEL-4	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.093
	TEL-4	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.089
	TEL-4	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.099
	TEL-4	Nov-14	FD		< 0.0077	< 0.0064	< 0.0026	< 0.0077	< 0.0052	< 0.0080	0.11
	TEL-4	Nov-14		< 0.0077		< 0.0064	< 0.0026	< 0.0077	< 0.0052	< 0.0080	0.11
TMD	MW-8	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-8	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-8	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-8	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-8	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-16	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-16	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	---	0.06	0.01	0.005	0.025	0.007	0.015
				CGWSL Source:		WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
TMD	MW-16	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-20	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-20	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-20	Apr-14	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-20	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-21	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-21	Oct-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-21	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-21	Oct-13	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-21	Oct-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-21	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-21	Nov-14		< 0.00038		< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037
	MW-25	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-25	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-25	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-26	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-26	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-26	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-27	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-27	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-27	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-46R	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-46R	Oct-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-46R	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-46R	Oct-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-46R	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	0.00074 J
	MW-46R	Nov-14		< 0.00038		< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040 J	< 0.00037
	MW-68	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-68	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-68	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-71	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-71	Sep-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-71	Apr-13	FD			< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-71	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-71	Oct-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-71	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	MW-89	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-89	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	MW-89	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	NP-1	Apr-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	NP-1	Sep-12				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	NP-1	Apr-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	NP-1	Oct-13				< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	NP-1	Apr-14				< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050
	NP-1	Nov-14		< 0.00038		< 0.00032	< 0.00013	< 0.00038	< 0.00026	< 0.00040	< 0.00037

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				Analyte:	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	---	0.06	0.01	0.005	0.025	0.007	0.015
				CGWSL Source:		WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW
Location Name	Location	Date	Dup								
TMD	NP-2	Apr-13									
	NP-6	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NP-6	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Upgradient	UG-1	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-1	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-1	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050	< 0.00050
	UG-2	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-2	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-2	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050	< 0.00050
	UG-3R	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-3R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-3R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-3R	Apr-14	FD		< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050	< 0.00050
	UG-3R	Apr-14			< 0.00050	< 0.00050	< 0.00050	< 0.00040	< 0.00050	< 0.00050	< 0.00050

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Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
Crossgradient	KWB-13	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-13	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-13	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	NP-5	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NP-5	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NP-5	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-3156	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-3156	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-3156	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-3156	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-3156	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-1R	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
EP	MW-1R	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-1R	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-1R	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-2A	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-2A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-2A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-2A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-2A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-2A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021 J5	< 0.01	< 0.00033
	MW-3	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-3	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-3	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-3	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.018	< 0.0050
	MW-3	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-3	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-3	Nov-14	FD	< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-4A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-4A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-4A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-4A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-4A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0028 J	< 0.0010	0.023	< 0.00060
	MW-4A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	0.0013
	MW-4B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-5A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-5A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-5A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-5A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-5A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0025 J	< 0.0010	0.011	< 0.00060
	MW-5A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-5B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-5C	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-6A	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-6A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050

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Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
EP	MW-6A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	0.0068 J	< 0.00060
	MW-6B	Mar-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-6B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-7A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-7A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-7A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-7A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-7A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0018 J	< 0.0010	0.0041 J	< 0.00060
	MW-7A	Nov-14	FD	< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-7A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-7B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-10	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-10	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-10	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-10	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-10	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-10	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-11A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-11A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-11A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-11B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-120	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-120	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	0.0067 J	< 0.00060
	MW-120	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-121	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.011	< 0.0050
	MW-121	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-121	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-122	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-122	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-122	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-123	Nov-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-123	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-123	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-123	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	0.01 J	< 0.00033
	MW-124	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-124	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-124	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-15	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-15	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-15	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-15	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-18A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-18A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-18A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-18A	Nov-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
EP	MW-18A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-18A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-18A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-18B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-22A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-22A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-22A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-22A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-22A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0070 J	< 0.0010	0.019	< 0.00060
	MW-22A	Nov-14	FD	< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-22A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-22B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-70	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-70	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-70	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-70	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-70	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0036 J	< 0.0010	0.011	< 0.00060
	MW-70	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-72	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-72	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-72	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-72	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.014	< 0.0050
	MW-72	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-73	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-73	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.017	< 0.0050
	MW-73	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-73	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-73	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0028 J	< 0.0010	0.0092 J	< 0.00060
	MW-74	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.016	< 0.0050
	MW-74	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.036	< 0.0050
	MW-74	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.020	< 0.0050
	MW-74	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.039	< 0.0050
	MW-74	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0036 J	< 0.0010	0.020	< 0.00060
	MW-74	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	0.011 J	< 0.00033
	MW-75	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.012	< 0.010	0.039	< 0.0050
	MW-75	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.040	< 0.0050
	MW-75	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.044	< 0.0050
	MW-75	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.020	< 0.0050
	MW-75	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0064 J	< 0.0010	0.043	0.0011 J
	MW-75	Nov-14		< 0.0019	< 0.0018	< 0.0015	< 0.0019	< 0.02	< 0.011	< 0.05	< 0.0016
	MW-76	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.015	< 0.0050
	MW-76	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.017	< 0.0050
	MW-76	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.017	< 0.0050
	MW-76	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.019	< 0.0050
	MW-76	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0038 J	< 0.0010	0.019	< 0.00060

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
EP	MW-76	Nov-14		< 0.0019	< 0.0018	< 0.0015	< 0.0019	< 0.02	< 0.011	< 0.05	0.0049 J
	MW-77	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.011	< 0.010	0.031	< 0.0050
	MW-77	Sep-12		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	0.069	< 0.025
	MW-77	Mar-13		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	0.051	< 0.025
	MW-77	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.048	0.010
	MW-77	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.051	0.0086
	MW-77	Apr-14		< 0.00040	< 0.00050	< 0.00070	0.0019 J	0.0066 J	< 0.0010	0.041	0.0020 J
	MW-77	Nov-14		< 0.0019	< 0.0018	< 0.0015	0.0044 J	< 0.02	< 0.011	0.056 J	0.019
	MW-78	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.029	< 0.0050
	MW-78	Mar-13		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	0.067	< 0.025
	MW-78	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.011	< 0.0010	0.070	0.0031 J
	MW-79	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-79	Sep-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-79	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-79	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-79	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.010	< 0.0050
	MW-79	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-79	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-80	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-80	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-80	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	0.0045 J	< 0.00060
	MW-81	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-81	Mar-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-81	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-81	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-82	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-82	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.012	< 0.0050
	MW-82	Apr-14	FD	< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0031 J	< 0.0010	0.0097 J	< 0.00060
	MW-82	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0037 J	< 0.0010	0.015	< 0.00060
	MW-83	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.012	< 0.0050
	MW-83	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.042	< 0.0050
	MW-83	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.016	< 0.0050
	MW-83	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.031	< 0.0050
	MW-83	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0033 J	< 0.0010	0.021	< 0.00060
	MW-83	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	0.019 J	< 0.00033
	MW-84	Mar-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.030	< 0.0050
	MW-84	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.036	< 0.0050
	MW-84	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.038	< 0.0050
	MW-84	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.042	< 0.0050
	MW-84	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.061	< 0.0050
	MW-84	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0054 J	< 0.0010	0.043	< 0.00060
	MW-84	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	0.0042 J	< 0.0021	0.037 J	0.00070 J
	MW-87	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-87	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-87	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
EP	MW-87	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-87	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-87	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-88	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-88	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-88	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-88	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-88	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-88	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	OCD-1R	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-1R	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-1R	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-1R	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	OCD-1R	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	OCD-2A	Mar-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-2A	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-2A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-2A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-2A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-2A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	OCD-2A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	OCD-3	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-3	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-3	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-3	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-3	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	OCD-3	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	OCD-4	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-4	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-4	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-4	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-4	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	OCD-4	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	OCD-5	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-5	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-5	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-5	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-5	Apr-14	FD	< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	0.011	< 0.00060
	OCD-5	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	0.014	< 0.00060
	OCD-5	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-6	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-6	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-6	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.015	< 0.0050
	OCD-6	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
EP	OCD-6	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	OCD-7AR	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-7AR	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-7AR	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-7AR	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-7AR	Apr-14	FD	< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0026 J	< 0.0010	0.015	< 0.00060
	OCD-7AR	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	0.0034 J	< 0.0010	0.019	< 0.00060
	OCD-7AR	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	OCD-7B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-8A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-8A	Sep-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-8A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-8A	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-8A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-8A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	OCD-8A	Apr-14	FD	< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	OCD-8A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	OCD-8A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	OCD-8B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
Field E of Refinery	KWB-1A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-1A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-1A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-1A	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-1A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	KWB-1A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	KWB-1C	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-7	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.28
	KWB-7	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.0056
	KWB-7	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-7	Nov-14		< 0.0038	< 0.0036	< 0.0031	0.0085 J	< 0.039	< 0.021	< 0.1	0.077
	KWB-10R	Nov-14		< 0.0095	< 0.0090	< 0.0076	0.11	0.4	< 0.054	< 0.25 J3	5.1
	KWB-11A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-11A	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-11A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-11A	Nov-14	FD	< 0.00038	< 0.00036	< 0.00031	0.0011	< 0.0039 J4J3	< 0.0021	< 0.01	0.0072
	KWB-11A	Nov-14		< 0.00038	< 0.00036	< 0.00031	0.0013	< 0.0039	< 0.0021	< 0.01	0.0078
	KWB-11B	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-11B	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-11B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-11B	Apr-14		< 0.00040	< 0.00050	< 0.00070	0.0046 J	0.0053 J	< 0.0010	< 0.0020	< 0.00060
	KWB-11B	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	KWB-12A	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-12A	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-12A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	KWB-12A	Nov-14	FD	< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039 J4J3	< 0.0021	< 0.01	< 0.00033

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
Field E of Refinery	KWB-12B	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-12B	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-12B	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-12B	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-12B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-12B	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	KWB-12B	Apr-14	FD	< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	KWB-12B	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	KWB-12B	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	KWB-P4	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-57	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-57	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-57	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-57	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.012	< 0.0050
	MW-57	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.0013 J
	MW-57	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	0.0060
	MW-58	Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	2.5
	MW-58	Nov-14		< 0.0095	< 0.0090	< 0.0076	0.098	< 0.098	< 0.054	< 0.25	7.4
	MW-111	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.090
	MW-111	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.19
	MW-111	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	0.054	0.11
	MW-111	Nov-14		< 0.00038	< 0.00036	< 0.00031	0.0017	< 0.0039	< 0.0021	< 0.01	0.18
	MW-112	Nov-14		< 0.0095	< 0.0090	< 0.0076	0.09	< 0.098	< 0.054	< 0.25	8.5
	MW-113	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.0095
	MW-113	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.64
	MW-113	Apr-14		< 0.00040	< 0.00050	< 0.00070	0.026	< 0.0010	< 0.0010	< 0.0020	2.3
	MW-113	Nov-14	FD	< 0.0038	< 0.0036	< 0.0031	0.0069 J	< 0.039 J4J3	< 0.021	< 0.1	1.2
	MW-113	Nov-14		< 0.00038	0.00052 J	< 0.00031	0.0071	< 0.0039	< 0.0021	< 0.01	1.5
	MW-125	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020 B	< 0.00060
	MW-125	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-126A	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.0034 J
	MW-126A	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-126B	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-126B	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01 J3	< 0.00033
	MW-127	Apr-14		< 0.00040	< 0.00050	< 0.00070	0.063	0.0036 J	< 0.0010	0.019	6.8
	MW-127	Nov-14		< 0.00038	< 0.00036	< 0.00031	0.0061	< 0.0039	< 0.0021	< 0.01 J3	1.8
	MW-128	Apr-14		< 0.00040	< 0.00050	< 0.00070	0.0045 J	< 0.0010	< 0.0010	< 0.0020	0.24
	MW-128	Nov-14		< 0.00038	< 0.00036	< 0.00031	0.00048 J	< 0.0039	< 0.0021	0.016 J3J	0.12
	MW-129	Nov-14		< 0.0038	< 0.0036	< 0.0031	0.0043 J	< 0.039 J4J3	< 0.021	< 0.1	0.084
	MW-131	Apr-14		< 0.00040	< 0.00050	< 0.00070	0.066	0.0078 J	< 0.0010	0.016	3.1
	MW-131	Nov-14		< 0.0038	< 0.0036	< 0.0031	0.016	< 0.039	< 0.021	< 0.1 J3	1.8
	MW-133	Nov-14		< 0.038	< 0.036	< 0.031	0.053 J	< 0.39 J4J3	< 0.21	< 1	0.62
	MW-134	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-134	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01 J3	< 0.00033
	MW-135	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
				CGWSL Source:	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup									
Field E of Refinery	MW-135	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01 J3	< 0.00033
	RA-4196	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4196	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4196	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4196	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4196	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4196	Nov-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4196	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4196	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	RA-4798	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4798	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4798	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4798	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-4798	Apr-14	FD		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	RA-4798	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	RA-4798	Nov-14			< 0.00038	0.0015	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01 J3	< 0.00033

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
Field E of Refinery	RW-18	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RW-18	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RW-18	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RW-18	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
N Refinery	MW-23	Apr-12		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	< 0.050	9.5
	MW-23	Oct-12		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	< 0.050	12
	MW-23	Apr-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	14
	MW-23	Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	15
	MW-23	Apr-14		< 0.0080	< 0.010	< 0.014	< 0.012	< 0.020	< 0.020	< 0.040	11
	MW-23	Nov-14		< 0.019	< 0.018	< 0.015	0.069	< 0.2	< 0.11	< 0.5	15
	MW-29	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-29	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-29	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-29	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-29	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-29	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-39	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.33
	MW-40	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.017
	MW-40	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.021
	MW-40	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	0.0055 J	0.011
	MW-41	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-41	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.023
	MW-41	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.014
	MW-41	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-41	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	0.0049 J	0.018
	MW-42	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	2.3	< 0.010	0.45	0.45
	MW-42	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.35
	MW-42	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.62
	MW-42	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.70
	MW-42	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.54
	MW-43	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.52
	MW-43	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	1.1
	MW-43	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	1.1
	MW-43	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.083
	MW-43	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	1.6
	MW-43	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	1.5
	MW-43	Apr-14		< 0.00040	< 0.00050	0.0032 J	0.0015 J	< 0.0010	< 0.0010	< 0.0020	0.35
	MW-43	Nov-14		< 0.0038	< 0.0036	< 0.0031	< 0.0039	< 0.039	< 0.021	< 0.1	1.1
	MW-59	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.028
	MW-59	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.037
	MW-59	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.013
	MW-60	Apr-12		< 0.0050	< 0.0050	< 0.0050	0.0058	< 0.010	< 0.010	< 0.010	0.14
	MW-60	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.12
	MW-60	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.14
	MW-60	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.12

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
				CGWSL Source:	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
N Refinery	MW-60	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.12
	MW-60	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.075
	MW-60	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.075
	MW-60	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.030
	MW-60	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	0.0032
	MW-61	Apr-12			< 0.0050	< 0.0050	< 0.0050	0.0073	< 0.010	< 0.010	< 0.010	1.6
	MW-61	Oct-12			< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	< 0.050	2.8
	MW-61	Apr-13			< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	< 0.050	1.5
	MW-61	Oct-13			< 0.025	< 0.025	< 0.025	0.098	< 0.050	< 0.050	0.11	1.7
	MW-61	Apr-14			< 0.0020	< 0.0025	< 0.0035	0.0058 J	< 0.0050	< 0.0050	< 0.010	1.6
	MW-61	Nov-14			< 0.019	< 0.018	< 0.015	0.1	< 0.2	< 0.11	< 0.5	1.3
	MW-62	Apr-12			< 0.0050	< 0.0050	< 0.0050	0.012	< 0.010	< 0.010	< 0.010	0.40
	MW-62	Oct-12			< 0.0050	< 0.0050	< 0.0050	0.019	< 0.010	< 0.010	< 0.010	0.62
	MW-62	Apr-13			< 0.0050	< 0.0050	< 0.0050	0.012	< 0.010	< 0.010	< 0.010	0.55
	MW-62	Oct-13			< 0.0050	< 0.0050	< 0.0050	0.11	< 0.010	< 0.010	< 0.010	0.87
	MW-62	Apr-14			< 0.00040	< 0.00050	< 0.00070	0.060	< 0.0010	< 0.0010	< 0.0020	1.0
	MW-62	Nov-14			< 0.019	< 0.018	< 0.015	< 0.019	< 0.2	< 0.11	< 0.5	17
	MW-67	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.19
	MW-67	Nov-14			< 0.0019	< 0.0018	< 0.0015	< 0.0019	< 0.02 J4	< 0.011	< 0.05 J4	0.14
	MW-90	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-90	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-90	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.0061
	MW-90	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-90	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.016
	MW-90	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.0035 J
	MW-90	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	0.015
	MW-91	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	0.072	< 0.010	< 0.010	< 0.010	1.5
	MW-91	Apr-14			< 0.0020	< 0.0025	< 0.0035	0.064	< 0.0050	< 0.0050	0.027 J	2.2
	MW-91	Nov-14			< 0.095	< 0.09	< 0.076	< 0.097	< 0.98 J4J3	< 0.54	< 2.5	2.5
	MW-93	Apr-12			< 0.0050	< 0.0050	< 0.0050	0.044	< 0.010	< 0.010	< 0.010	2.0
	MW-93	Oct-12			< 0.0050	< 0.0050	< 0.0050	0.040	< 0.010	< 0.010	< 0.010	2.1
	MW-93	Apr-13			< 0.0050	< 0.0050	< 0.0050	0.059	< 0.010	< 0.010	< 0.010	2.1
	MW-93	Oct-13			< 0.0050	< 0.0050	< 0.0050	0.067	< 0.010	< 0.010	0.016	2.0
	MW-93	Apr-14			< 0.0020	< 0.0025	< 0.0035	0.076	< 0.0050	< 0.0050	< 0.010	1.8
	MW-93	Nov-14			< 0.019	< 0.018	< 0.015	0.046 J	< 0.2	< 0.11	< 0.5	1.3
	MW-94	Nov-14			< 0.0076	< 0.0072	< 0.0061	0.12	< 0.079 J4	< 0.043	< 0.2 J4	0.37
	MW-95	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.0062
	MW-95	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-95	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-96	Apr-12			< 0.0050	< 0.0050	< 0.0050	0.0055	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-96	Oct-12			< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.050
	MW-96	Apr-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.050
	MW-96	Oct-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.050
	MW-96	Apr-14			< 0.010	< 0.012	< 0.018	< 0.015	< 0.025	< 0.025	< 0.050	0.056 J

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
				CGWSL Source:	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
N Refinery	MW-96	Nov-14			< 0.0095	< 0.0090	< 0.0076	< 0.0097	< 0.098	< 0.054	< 0.25	< 0.0083
	MW-98	Apr-12			< 0.025	< 0.025	< 0.025	0.084	< 0.050	< 0.050	< 0.050	7.5
	MW-98	Oct-12			< 0.050	< 0.050	< 0.050	0.099	< 0.10	< 0.10	< 0.10	8.3
	MW-98	Apr-13			< 0.050	< 0.050	< 0.050	0.095	< 0.10	< 0.10	< 0.10	6.8
	MW-98	Oct-13			< 0.050	< 0.050	< 0.050	0.096	< 0.10	< 0.10	< 0.10	5.8
	MW-98	Apr-14	FD		< 0.0040	< 0.0050	< 0.0070	0.10	< 0.010	< 0.010	0.059 J	6.1
	MW-98	Apr-14			< 0.0040	< 0.0050	< 0.0070	0.10	0.046 J	< 0.010	0.038 J	5.8
	MW-98	Nov-14			< 0.095	< 0.09	< 0.076	< 0.097	< 0.98	< 0.54	< 2.5	4.8
	RW-9	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RW-9	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	1.1
	RW-9	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.68
	RW-10	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	1.3
	RW-10	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RW-10	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	RW-16	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RW-16	Apr-14	FD		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	RW-16	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	RW-16A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RW-17	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RW-17	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	RW-17A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
N RO Reject Field	MW-117	Feb-13			< 0.00030	< 0.00030						< 0.00020
	MW-117	May-13			< 0.00030	< 0.00030						< 0.00020
	MW-117	Sep-13			< 0.00020	< 0.00020						< 0.00020
	MW-117	Nov-13			< 0.00020	< 0.00020						< 0.00020
	MW-117	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-117	Nov-14	FD		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039 J4J3	< 0.0021	< 0.01	< 0.00033
	MW-117	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-117	Feb-13			< 0.00030	< 0.00030						0.0042
	MW-118	May-13			< 0.00030	< 0.00030						< 0.00020
	MW-118	Sep-13			< 0.00020	< 0.00020						< 0.00020
	MW-118	Nov-13			< 0.00020	< 0.00020						< 0.00020
	MW-118	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-118	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-119	Feb-13			< 0.00030	< 0.00030						0.0036
	MW-119	May-13			< 0.00030	< 0.00030						< 0.00020
	MW-119	Sep-13			< 0.00020	< 0.00020						< 0.00020
	MW-119	Nov-13			< 0.00020	< 0.00020						< 0.00020
	MW-119	Apr-14	FD		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-119	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020 B	< 0.00060
	MW-119	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
				CGWSL Source:	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
NCL	MW-18	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-18	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-18	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-18	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-18	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-18	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	0.0045 J	< 0.00060
	MW-45	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-45	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-45	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-45	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-45	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-45	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-53	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-53	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-53	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-54A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-54A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-54A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-54A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-54A	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-54A	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-54B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-55	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-55	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-55	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-55	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-55	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-55	Apr-14	FD		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-55	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-55	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-56	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-56	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-56	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-56	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-56	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-56	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-56	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
NCL	MW-108	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.34
	MW-108	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.42
	MW-108	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.39
	MW-108	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	0.016	0.43
	MW-108	Apr-14		< 0.00040	0.0098	< 0.00070	0.0034 J	< 0.0010	0.0012 J	0.0079 J	0.39
	MW-108	Nov-14		< 0.0019	< 0.0018	< 0.0015	0.0046 J	< 0.02	< 0.011	< 0.05	0.41
	NCL-31	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-31	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-31	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-31	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-31	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	NCL-32	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	NCL-33	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-33	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-33	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-33	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-33	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	NCL-33	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	NCL-34A	Oct-13		< 0.0050	< 0.0050	< 0.0050	0.012	< 0.010	< 0.010	< 0.010	1.9
	NCL-34A	Nov-14		< 0.0019	< 0.0018	< 0.0015	< 0.0019	< 0.02	< 0.011	< 0.05	0.27
	NCL-44	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-44	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-44	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-44	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-44	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.0011 J
	NCL-44	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	NCL-49	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-49	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-49	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-49	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-49	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NCL-49	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	NCL-49	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	NCL-49	Nov-14	FD	< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
S Refinery	KWB-2R	Nov-14		< 0.0095	< 0.0090	< 0.0076	0.039	< 0.098	< 0.054	< 0.25 J3	4.4
	KWB-4	Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	0.70
	KWB-5	Nov-14		< 0.0038	< 0.0036	< 0.0031	< 0.0039	< 0.039	< 0.021	< 0.1 J3	0.41
	KWB-6	Nov-14		< 0.0038	< 0.0036	< 0.0031	0.047	< 0.039	< 0.021	< 0.1	5.1
	MW-28	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.78
	MW-28	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.75
	MW-28	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.62
	MW-28	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.58
	MW-28	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020 B	0.81
	MW-28	Nov-14		< 0.0095	< 0.0090	< 0.0076	0.011 J	< 0.098	< 0.054	0.56 J	3.3
	MW-48	Nov-14		< 0.0095	< 0.0090	< 0.0076	< 0.0097	< 0.098	< 0.054	< 0.25 J3	0.14

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
S Refinery	MW-50	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-50	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-50	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-50	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-50	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-50	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-52	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-52	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-52	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-52	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-52	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-52	Apr-14	FD	< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-52	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-52	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-65	Nov-14		< 0.019	< 0.018	< 0.015	0.022 J	< 0.2	< 0.11	< 0.5 J3	8.9
	MW-66	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.54
	MW-66	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	3.0
	MW-66	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	1.2
	MW-66	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	2.2
	MW-66	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050 J	< 0.010	< 0.010	< 0.010	2.0 J
	MW-66	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	0.0031 J	< 0.0020 B	0.89
	MW-66	Nov-14		< 0.0038	< 0.0036	< 0.0031	< 0.0039	< 0.039	< 0.021	< 0.1	6.5
	MW-99	Nov-14		< 0.0038	< 0.0036	< 0.0031	0.036	< 0.039	< 0.021	< 0.1 J3	2.6
	MW-101	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	2.8
	MW-101	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.92
	MW-101	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	2.1
	MW-101	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.19
	MW-101	Apr-14		< 0.00040	< 0.00050	< 0.00070	0.00092 J	< 0.0010	< 0.0010	< 0.0020 B	1.1
	MW-101	Nov-14		< 0.0038	< 0.0036	< 0.0031	< 0.0039	< 0.039	< 0.021	< 0.1	0.22
	MW-102	Nov-14		< 0.019	< 0.018	< 0.015	0.059	< 0.2	< 0.11	< 0.5 J3	11
	MW-103	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.40
	MW-103	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.58
	MW-103	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.76
	MW-104	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.024
	MW-104	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.065
	MW-104	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.033
	MW-104	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.076
	MW-104	Apr-14	FD	< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.058
	MW-104	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.056
	MW-104	Nov-14	FD	< 0.0038	< 0.0036	< 0.0031	< 0.0039	< 0.039 J4J3	< 0.021	< 0.1	0.11
	MW-104	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	0.094
	MW-105	Nov-14		< 0.095	< 0.09	< 0.076	< 0.097	< 0.98	< 0.54	< 2.5	3.4
	MW-106	Apr-12		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	< 0.050	9.4
	MW-106	Oct-12		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	< 0.050	4.1
	MW-106	Apr-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	9.5

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Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
S Refinery	MW-106	Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	11
	MW-106	Apr-14		< 0.0080	< 0.010	< 0.014	0.018 J	< 0.020	< 0.020	< 0.040	9.3
	MW-107	Apr-12	FD	< 0.025	< 0.025	< 0.025	0.030	< 0.050	< 0.050	< 0.050	4.7
	MW-107	Apr-12		< 0.025	< 0.025	< 0.025	0.030	< 0.050	< 0.050	< 0.050	4.9
	MW-107	Oct-12		< 0.0050	< 0.0050	< 0.0050	0.027	< 0.010	< 0.010	0.013	5.9
	MW-107	Apr-13		< 0.025	< 0.025	< 0.025	0.031	< 0.050	< 0.050	< 0.050	5.9
	MW-107	Oct-13		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.050	< 0.050	6.3
	MW-107	Apr-14		< 0.0040	< 0.0050	< 0.0070	0.012 J	< 0.010	< 0.010	< 0.020	7.0
	MW-107	Nov-14		< 0.0038	< 0.0036	< 0.0031	0.0052 J	< 0.039	< 0.021	< 0.1	8.2
	MW-109	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.98
	MW-109	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.099
	MW-109	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.38
	MW-109	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.095
	MW-109	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	0.31
	MW-109	Nov-14		< 0.00038 J5J3	< 0.00036 J3	< 0.00031 J5J3	0.00040 J3J5J3	< 0.0039 J5	< 0.0021 J5J3	< 0.01	0.28
	MW-110	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.056
	MW-110	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.26
	MW-110	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.061
	MW-110	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.039
	MW-110	Apr-14		< 0.00040	< 0.00050	< 0.00070	0.0043 J	< 0.0010	< 0.0010	< 0.0020	0.081
	MW-110	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	0.0015
	MW-130	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-130	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01 J3	< 0.00033
	RA-313	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-313	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	RA-313	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
S RO Reject Field	MW-114	Feb-13		< 0.00030	< 0.00030						< 0.00020
	MW-114	May-13		< 0.00030	< 0.00030						< 0.00020
	MW-114	Sep-13		< 0.00020	< 0.00020						< 0.00020
	MW-114	Nov-13		< 0.00020	< 0.00020						< 0.00020
	MW-114	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-114	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-115	Feb-13		< 0.00030	< 0.00030						< 0.00020
	MW-115	May-13	FD	< 0.00030	< 0.00030						< 0.00020
	MW-115	May-13		< 0.00030	< 0.00030						< 0.00020
	MW-115	Sep-13		< 0.00020	< 0.00020						< 0.00020
	MW-115	Nov-13		< 0.00020	< 0.00020						< 0.00020
	MW-115	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-115	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-116	Feb-13		< 0.00030	< 0.00030						< 0.00020
	MW-116	May-13		< 0.00030	< 0.00030						< 0.00020
	MW-116	Sep-13	FD	< 0.00020	< 0.00020						< 0.00020
	MW-116	Sep-13		< 0.00020	< 0.00020						< 0.00020
	MW-116	Nov-13	FD	< 0.00020	< 0.00020						< 0.00020
	MW-116	Nov-13		< 0.00020	< 0.00020						< 0.00020

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				Analyte:	1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
				CGWSL Source:	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup									
S RO Reject Field	MW-116	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-116	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-49	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	0.0054	< 0.010	< 0.010	< 0.010	0.35
	MW-49	Apr-12			< 0.0050	< 0.0050	< 0.0050	0.0056	< 0.010	< 0.010	< 0.010	0.39
	MW-49	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.37
TEL	MW-49	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.26
	MW-49	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.24
	MW-49	Oct-13			< 0.0050	< 0.0050	< 0.0050	0.0051	< 0.010	< 0.010	< 0.010	0.34
	MW-49	Apr-14			< 0.00040	< 0.00050	< 0.00070	0.0018 J	< 0.0010	< 0.0010	< 0.0020 B	0.22
	MW-49	Nov-14			< 0.00076	< 0.00072	< 0.00061	0.0018 J	< 0.0079	< 0.0043	< 0.02	0.17
	TEL-1	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	TEL-1	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	TEL-1	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	TEL-1	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	TEL-1	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	TEL-1	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	TEL-1	Apr-14	FD		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020 B	< 0.00060
	TEL-1	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020 B	< 0.00060
	TEL-1	Nov-14			< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	TEL-2	Apr-12			< 0.0050	< 0.0050	< 0.0050	0.020	< 0.010	< 0.010	< 0.010	1.0
	TEL-2	Oct-12			< 0.0050	< 0.0050	< 0.0050	0.025	< 0.010	< 0.010	< 0.010	1.4
	TEL-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	0.037	< 0.010	< 0.010	< 0.010	1.5
	TEL-2	Oct-13			< 0.0050	< 0.0050	< 0.0050	0.031	< 0.010	< 0.010	< 0.010	1.3
	TEL-2	Apr-14			< 0.00040	< 0.00050	< 0.00070	0.032	< 0.0010	< 0.0010	0.0071 J	1.2
	TEL-2	Nov-14			< 0.0038	< 0.0036	< 0.0031	0.026	< 0.039	< 0.021	< 0.1	0.87
	TEL-3	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.036
	TEL-3	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.043
	TEL-3	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.0084
	TEL-3	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.032
	TEL-3	Apr-14			< 0.00040	< 0.00050	< 0.00070	0.0029 J	< 0.0010	< 0.0010	< 0.0020 B	0.0092
	TEL-3	Nov-14			< 0.00038	< 0.00036	< 0.00031	0.0017	< 0.0039	< 0.0021	< 0.01	0.023
	TEL-4	Apr-12			< 0.0050	< 0.0050	< 0.0050	0.064	< 0.010	< 0.010	< 0.010	0.0078
	TEL-4	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.13
	TEL-4	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.20
	TEL-4	Oct-13			< 0.0050	< 0.0050	< 0.0050	0.027	< 0.010	< 0.010	0.014	0.43
	TEL-4	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020 B	0.37
	TEL-4	Nov-14	FD		< 0.0076	< 0.0072	< 0.0061	< 0.0077	< 0.079	< 0.043	< 0.2	1.2
	TEL-4	Nov-14			< 0.0076	< 0.0072	< 0.0061	< 0.0077	< 0.079	< 0.043	< 0.2	1.2
TMD	MW-8	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-8	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-8	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-8	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-8	Apr-14			< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-16	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-16	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050

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Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
TMD	MW-16	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-20	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-20	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-20	Apr-14	FD	< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-20	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-21	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-21	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-21	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-21	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-21	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-21	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-21	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-25	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-25	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-25	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-26	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-26	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-26	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-27	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-27	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-27	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-46R	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-46R	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-46R	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-46R	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-46R	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-46R	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033
	MW-68	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-68	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-68	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-71	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-71	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-71	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-71	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-71	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-71	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	MW-89	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-89	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	MW-89	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	NP-1	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NP-1	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NP-1	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NP-1	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NP-1	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	NP-1	Nov-14		< 0.00038	< 0.00036	< 0.00031	< 0.00039	< 0.0039	< 0.0021	< 0.01	< 0.00033

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Analyte:				1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-Pentanone	Acetone	Benzene
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.00005	0.005	0.005	0.12	5.56	1.24	14.1	0.005
CGWSL Source:				USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	NMED TW	NMED TW	USEPA MCL
Location Name	Location	Date	Dup								
TMD	NP-2	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NP-6	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	NP-6	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
Upgradient	UG-1	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	UG-1	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	UG-1	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	UG-2	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	UG-2	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	UG-2	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	UG-2	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	UG-3R	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	UG-3R	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	UG-3R	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.0050
	UG-3R	Apr-14	FD	< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060
	UG-3R	Apr-14		< 0.00040	< 0.00050	< 0.00070	< 0.00060	< 0.0010	< 0.0010	< 0.0020	< 0.00060

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				Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
Location Name	Location	Date	Dup										
Crossgradient	KWB-13	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-13	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-13	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	NP-5	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NP-5	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NP-5	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-3156	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-3156	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-3156	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-3156	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-3156	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-1R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-1R	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-1R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
EP	MW-1R	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-2A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-2A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-2A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-2A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-2A	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-2A	Nov-14			< 0.00038	< 0.00047	< 0.00087 J4	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-3	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-3	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-3	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-3	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-3	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-3	Nov-14			< 0.00038	< 0.00047	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032	< 0.00032
	MW-3	Nov-14	FD		< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-4A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-4A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-4A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-4A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-4A	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-4A	Nov-14			< 0.00038	< 0.00047	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032	< 0.00032
	MW-4B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5A	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-5A	Nov-14			< 0.00038	< 0.00047	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032	< 0.00032
	MW-5B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-5C	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-6A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-6A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

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Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
EP	MW-76	Nov-14			< 0.0019	< 0.0023	< 0.0043 J4	< 0.0014	< 0.0019	< 0.0017	< 0.0016	< 0.0023	< 0.0016
	MW-77	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-77	Sep-12			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-77	Mar-13			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-77	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-77	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-77	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-77	Nov-14			< 0.0019	< 0.0023	< 0.0043 J4	< 0.0014	< 0.0019	< 0.0017	< 0.0016	< 0.0023	< 0.0016
	MW-78	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-78	Mar-13			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-78	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-79	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Sep-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-79	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-79	Nov-14			< 0.00038	< 0.00047	< 0.00087 J4	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-80	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-80	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-80	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-81	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-81	Mar-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-81	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-81	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-82	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-82	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-82	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-82	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-83	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-83	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-83	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-83	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-83	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-83	Nov-14			< 0.00038	< 0.00047	< 0.00087 J4	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-84	Mar-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-84	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-84	Nov-14			< 0.00038	< 0.00047	< 0.00087 J4	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-87	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-87	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-87	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

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Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
Location Name	Location	Date	Dup										
EP	OCD-6	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	OCD-7AR	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-7AR	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-7AR	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-7AR	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-7AR	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	OCD-7AR	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	OCD-7AR	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	OCD-7B	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Sep-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	OCD-8A	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	OCD-8A	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	OCD-8A	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	OCD-8B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Field E of Refinery	KWB-1A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-1A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-1A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-1A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-1A	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	KWB-1A	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	KWB-1C	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-7	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-7	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-7	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-7	Nov-14			< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	KWB-10R	Nov-14			< 0.0095	< 0.012	< 0.022	< 0.0069	< 0.0095	< 0.0087	< 0.0082	< 0.011	< 0.0081
	KWB-11A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11A	Nov-14	FD		< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	KWB-11A	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	KWB-11B	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11B	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-11B	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	KWB-11B	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	KWB-12A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12A	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	KWB-12A	Nov-14	FD		< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
Location Name	Location	Date	Dup										
Field E of Refinery	KWB-12B	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	KWB-12B	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	KWB-12B	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	KWB-12B	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	KWB-P4	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-57	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-57	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-58	Oct-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-58	Nov-14			< 0.0095	< 0.012	< 0.022 J4	< 0.0069	< 0.0095	< 0.0087	< 0.0082	< 0.011	< 0.0081
	MW-111	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-111	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-111	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-111	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-112	Nov-14			< 0.0095	< 0.012	< 0.022 J4	< 0.0069	< 0.0095	< 0.0087	< 0.0082	< 0.011	< 0.0081
	MW-113	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-113	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-113	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-113	Nov-14	FD		< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	MW-113	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-125	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-125	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-126A	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-126A	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-126B	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-126B	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-127	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-127	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-128	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-128	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-129	Nov-14			< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	MW-131	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-131	Nov-14			< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	MW-133	Nov-14			< 0.038	< 0.047	< 0.087	< 0.028	< 0.038	< 0.035	< 0.033	< 0.045	< 0.032
	MW-134	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-134	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-135	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060

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				Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
Location Name	Location	Date	Dup										
Field E of Refinery	MW-135	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	RA-4196	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Nov-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4196	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	RA-4798	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4798	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4798	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4798	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-4798	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	RA-4798	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	RA-4798	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032

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				Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
Location Name	Location	Date	Dup										
Field E of Refinery	RW-18	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-18	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-18	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-18	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
N Refinery	MW-23	Apr-12			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-23	Oct-12			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-23	Apr-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-23	Oct-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-23	Apr-14			< 0.012	< 0.010	< 0.010	< 0.018	< 0.012	< 0.0080	< 0.010	< 0.010	< 0.012
	MW-23	Nov-14			< 0.019	< 0.023	< 0.043	< 0.014	< 0.019	< 0.017	< 0.016	< 0.023	< 0.016
	MW-29	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-29	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-29	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-29	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-29	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-29	Nov-14			< 0.00038	< 0.00047	< 0.00087 J3	0.00030 J	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-39	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-40	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-40	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-40	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-41	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-41	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-41	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-41	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-41	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-42	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-42	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-42	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-42	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-42	Apr-14			< 0.00060	< 0.00050	< 0.00050	0.0013 J	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-43	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-43	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-43	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-43	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-43	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-43	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-43	Apr-14			< 0.00060	< 0.00050	< 0.00050	0.0010 J	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-43	Nov-14			< 0.0038	< 0.0047	< 0.0087	0.0037 J	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	MW-59	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-59	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-59	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-60	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-60	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-60	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-60	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

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Location Name	Location	Date	Dup	Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
N Refinery	MW-60	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-60	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-60	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-60	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-60	Nov-14			< 0.00038	< 0.00047	< 0.00087	0.00041 J	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-61	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.16
	MW-61	Oct-12			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	0.15
	MW-61	Apr-13			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	0.12
	MW-61	Oct-13			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	0.069
	MW-61	Apr-14			< 0.0030	< 0.0025	< 0.0025	< 0.0045	< 0.0030	< 0.0020	< 0.0025	< 0.0025	0.059
	MW-61	Nov-14			< 0.019	< 0.023	< 0.043	< 0.014	< 0.019	< 0.017	< 0.016	< 0.023	< 0.016
	MW-62	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-62	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-62	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-62	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-62	Apr-14			< 0.00060	< 0.00050	< 0.00050	0.0026 J	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-62	Nov-14			< 0.019	< 0.023	< 0.043	< 0.014	< 0.019	< 0.017	< 0.016	< 0.023 J4	< 0.016
	MW-67	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-67	Nov-14			< 0.0019	< 0.0023	< 0.0043	0.0024 J	< 0.0019	< 0.0017	< 0.0016	< 0.0023	< 0.0016
	MW-90	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-90	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-90	Nov-14			< 0.00038	< 0.00047	< 0.00087	0.00037 J	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-91	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-91	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-91	Apr-14			< 0.0030	< 0.0025	< 0.0025	0.0079 J	< 0.0030	< 0.0020	< 0.0025	< 0.0025	< 0.0030
	MW-91	Nov-14			< 0.095	< 0.12	< 0.22	< 0.069	< 0.095	< 0.087	< 0.082	< 0.11	< 0.081
	MW-93	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-93	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-93	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-93	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-93	Apr-14			< 0.0030	< 0.0025	< 0.0025	0.0059 J	< 0.0030	< 0.0020	< 0.0025	< 0.0025	< 0.0030
	MW-93	Nov-14			< 0.019	< 0.023	< 0.043	0.014 J	< 0.019	< 0.017	< 0.016	< 0.023 J4	< 0.016
	MW-94	Nov-14			< 0.0076	< 0.0094	< 0.017	0.02	< 0.0076	< 0.0070	< 0.0065	< 0.0091	< 0.0065
	MW-95	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-95	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-95	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-96	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-96	Oct-12			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-96	Apr-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-96	Oct-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-96	Apr-14			< 0.015	< 0.012	< 0.012	< 0.022	< 0.015	< 0.010	< 0.012	< 0.012	< 0.015

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
N Refinery	MW-96	Nov-14			< 0.0095	< 0.012	< 0.022 J3	< 0.0069	< 0.0095	< 0.0087	< 0.0082	< 0.011	< 0.0081
	MW-98	Apr-12			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-98	Oct-12			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-98	Apr-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-98	Oct-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-98	Apr-14	FD		< 0.0060	< 0.0050	< 0.0050	< 0.0090	< 0.0060	< 0.0040	< 0.0050	< 0.0050	< 0.0060
	MW-98	Apr-14			< 0.0060	< 0.0050	< 0.0050	0.016 J	< 0.0060	< 0.0040	< 0.0050	< 0.0050	< 0.0060
	MW-98	Nov-14			< 0.095	< 0.12	< 0.22	< 0.069	< 0.095	< 0.087	< 0.082	< 0.11 J4	< 0.081
	RW-9	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-9	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-9	Apr-14			< 0.00060	< 0.00050	< 0.00050	0.0015 J	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	RW-10	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-10	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-10	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	RW-16	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-16	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	RW-16	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	RW-16A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-17	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RW-17	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	RW-17A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
N RO Reject Field	MW-117	Feb-13							< 0.00030				< 0.00030
	MW-117	May-13							< 0.00030				< 0.00030
	MW-117	Sep-13							< 0.00050				< 0.00020
	MW-117	Nov-13							< 0.00050				< 0.00020
	MW-117	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-117	Nov-14	FD		< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-117	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-118	Feb-13							< 0.00030				< 0.00030
	MW-118	May-13							< 0.00030				< 0.00030
	MW-118	Sep-13							< 0.00050				< 0.00020
	MW-118	Nov-13							< 0.00050				< 0.00020
	MW-118	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-118	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-119	Feb-13							< 0.00030				< 0.00030
	MW-119	May-13							< 0.00030				< 0.00030
	MW-119	Sep-13							< 0.00050				< 0.00020
	MW-119	Nov-13							< 0.00050				< 0.00020
	MW-119	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-119	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-119	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
NCL	MW-18	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-18	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-45	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-45	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-45	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-45	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-45	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-45	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-53	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-53	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-53	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-54A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-54A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-54A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-54A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-54A	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-54A	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-54B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-55	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-55	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-55	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-56	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-56	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-56	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
Location Name	Location	Date	Dup										
NCL	MW-108	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-108	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-108	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-108	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-108	Apr-14			< 0.00060	0.00073 J	< 0.00050	0.0020 J	0.0090	< 0.00040	< 0.00050	< 0.00050	0.0037 J
	MW-108	Nov-14			< 0.0019	< 0.0023	0	0.014	< 0.0019	< 0.0017	< 0.0016	< 0.0023	< 0.0016
	NCL-31	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-31	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-31	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-31	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-31	Apr-14			< 0.00060	0.00077 J	< 0.00050	< 0.00090	0.0094	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	NCL-32	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	NCL-33	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-33	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-33	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-33	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-33	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	NCL-33	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	NCL-34A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-34A	Nov-14			< 0.0019	< 0.0023	< 0.0043	< 0.0014	< 0.0019	< 0.0017	< 0.0016	< 0.0023	< 0.0016
	NCL-44	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-44	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-44	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-44	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-44	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	NCL-44	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	NCL-49	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NCL-49	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	NCL-49	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	NCL-49	Nov-14	FD		< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
S Refinery	KWB-2R	Nov-14			< 0.0095	< 0.012	< 0.022	< 0.0069	< 0.0095	< 0.0087	< 0.0082	< 0.011	< 0.0081
	KWB-4	Oct-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	KWB-5	Nov-14			< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	KWB-6	Nov-14			< 0.0038	< 0.0047	< 0.0087 J4	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	MW-28	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-28	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-28	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-28	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-28	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-28	Nov-14			< 0.0095	< 0.012	< 0.022	< 0.0069	< 0.0095	< 0.0087	< 0.0082	< 0.011	< 0.0081
	MW-48	Nov-14			< 0.0095	< 0.012	< 0.022	< 0.0069	< 0.0095	< 0.0087	< 0.0082	< 0.011	< 0.0081

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
Location Name	Location	Date	Dup										
S Refinery	MW-50	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-50	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-50	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-50	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-50	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-50	Nov-14			< 0.00038	< 0.00047	< 0.00087	0.00031 J	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-52	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-52	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-52	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-52	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	MW-65	Nov-14			< 0.019	< 0.023	< 0.043	< 0.014	< 0.019	< 0.017	< 0.016	< 0.023	< 0.016
	MW-66	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-66	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-66	Nov-14			< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045 J4	< 0.0032
	MW-99	Nov-14			< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	MW-101	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.016
	MW-101	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-101	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-101	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-101	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-101	Nov-14			< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045 J4	< 0.0032
	MW-102	Nov-14			< 0.019	< 0.023	< 0.043	< 0.014	< 0.019	< 0.017	< 0.016	< 0.023	< 0.016
	MW-103	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-103	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-103	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-104	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-104	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-104	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.041
	MW-104	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.013
	MW-104	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	0.14
	MW-104	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	0.14
	MW-104	Nov-14	FD		< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	MW-104	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	0.014
	MW-105	Nov-14			< 0.095	< 0.12	< 0.22 J4	< 0.069	< 0.095	< 0.087	< 0.082	< 0.11	< 0.081
	MW-106	Apr-12			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-106	Oct-12			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-106	Apr-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
S Refinery	MW-106	Oct-13			< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	MW-106	Apr-14			< 0.012	< 0.010	< 0.010	0.019 J	< 0.012	< 0.0080	< 0.010	< 0.010	< 0.012
	MW-107	Apr-12	FD		< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-107	Apr-12			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-107	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-107	Apr-13			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-107	Oct-13			< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	MW-107	Apr-14			< 0.0060	< 0.0050	< 0.0050 J	< 0.0090	< 0.0060	< 0.0040	< 0.0050	< 0.0050	< 0.0060
	MW-107	Nov-14			< 0.0038	< 0.0047	< 0.0087	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045 J4	< 0.0032
	MW-109	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-109	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-109	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-109	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-109	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-109	Nov-14			< 0.00038 J5J3	< 0.00047 J5J3	< 0.00087 J3	0.00054 J	< 0.00038 J3	< 0.00035 J5J3	< 0.00033 J5J3	< 0.00045 J4J6	< 0.00032 J5J3
	MW-110	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-110	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-110	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-110	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-110	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-110	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-130	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-130	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	RA-313	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-313	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	RA-313	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
S RO Reject Field	MW-114	Feb-13							< 0.00030				< 0.00030
	MW-114	May-13							< 0.00030				< 0.00030
	MW-114	Sep-13							< 0.00050				< 0.00020
	MW-114	Nov-13							< 0.00050				< 0.00020
	MW-114	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-114	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-115	Feb-13							< 0.00030				< 0.00030
	MW-115	May-13	FD						< 0.00030				< 0.00030
	MW-115	May-13							< 0.00030				< 0.00030
	MW-115	Sep-13							< 0.00050				< 0.00020
	MW-115	Nov-13							< 0.00050				< 0.00020
	MW-115	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-115	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-116	Feb-13							< 0.00030				< 0.00030
	MW-116	May-13							< 0.00030				< 0.00030
	MW-116	Sep-13	FD						< 0.00050				< 0.00020
	MW-116	Sep-13							< 0.00050				< 0.00020
	MW-116	Nov-13	FD						< 0.00050				< 0.00020
	MW-116	Nov-13							< 0.00050				< 0.00020

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
Location Name	Location	Date	Dup										
S RO Reject Field	MW-116	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-116	Nov-14			< 0.00038	< 0.00047	< 0.00087	< 0.00028	< 0.00038	< 0.00035	< 0.00033	< 0.00045 J4	< 0.00032
	MW-49	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-49	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-49	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-49	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-49	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-49	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-49	Apr-14			< 0.00060	< 0.00050	< 0.00050	0.0022 J	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-49	Nov-14			< 0.00076	< 0.00094	0	0.0035	< 0.00076	< 0.00070	< 0.00065	< 0.00091	< 0.00065
	TEL-1	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Oct-13			< 0.0050	< 0.0050	< 0.0050 J	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-1	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	TEL-1	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	TEL-1	Nov-14			< 0.00038	< 0.00047	0	0.0019	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	TEL-2	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-2	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-2	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-2	Apr-14			< 0.00060	< 0.00050	< 0.00050	0.0039 J	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	TEL-2	Nov-14			< 0.0038	< 0.0047	0	< 0.0028	< 0.0038	< 0.0035	< 0.0033	< 0.0045	< 0.0032
	TEL-3	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-3	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-3	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-3	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-3	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	TEL-3	Nov-14			< 0.00038	< 0.00047	0	0.0047	< 0.00038	< 0.00035	< 0.00033	< 0.00045	< 0.00032
	TEL-4	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-4	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-4	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-4	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	TEL-4	Apr-14			< 0.00060	< 0.00050	< 0.00050	0.0030 J	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	TEL-4	Nov-14	FD		< 0.0076	< 0.0094	0	0.038	< 0.0076	< 0.0070	< 0.0065	< 0.0091	< 0.0065
	TEL-4	Nov-14			< 0.0076	< 0.0094	0	0.042	< 0.0076	< 0.0070	< 0.0065	< 0.0091	< 0.0065
TMD	MW-8	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-8	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-8	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-8	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-8	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	MW-16	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	MW-16	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

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				Analyte:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.00134	---	0.00754	0.81	0.005	0.1	0.08	20.86	0.08
				CGWSL Source:	NMED TW		NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL
Location Name	Location	Date	Dup										
TMD	NP-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NP-6	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	NP-6	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Upgradient	UG-1	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-1	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-1	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	UG-2	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-2	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-2	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	UG-3R	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-3R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-3R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	UG-3R	Apr-14	FD		< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060
	UG-3R	Apr-14			< 0.00060	< 0.00050	< 0.00050	< 0.00090	< 0.00060	< 0.00040	< 0.00050	< 0.00050	< 0.00060

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				Analyte:	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
				CGWSL Source:	NMED TW	USEPA MCL	NMED TW	---	USEPA MCL	USEPA MCL	WQCC TW	---	---
Location Name	Location	Date	Dup										
Crossgradient	KWB-13	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	KWB-13	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	KWB-13	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010	< 0.0010
	NP-5	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	NP-5	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	NP-5	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	RA-3156	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	RA-3156	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	RA-3156	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	RA-3156	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	RA-3156	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010	< 0.0010
EP	MW-1R	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-1R	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-1R	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-1R	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010	< 0.0010
	MW-2A	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-2A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-2A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-2A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-2A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010	< 0.0010
	MW-2A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038 J5	< 0.0038 J5
	MW-3	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-3	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-3	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-3	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-3	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010	< 0.0010
	MW-3	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	0.00034 J	< 0.00072	< 0.0038	< 0.0038
	MW-3	Nov-14	FD	< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	0.00046 J	< 0.00072	< 0.0038	< 0.0038
	MW-4A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-4A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-4A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-4A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-4A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010	< 0.0010
	MW-4A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	0.0026	< 0.00072	< 0.0038	< 0.0038
	MW-4B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-5A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	0.015	< 0.010	< 0.010
	MW-5A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-5A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-5A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
	MW-5A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010	< 0.0010
	MW-5A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038	< 0.0038
	MW-5B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
MW-5C	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	
MW-6A	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	
MW-6A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	

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Location Name	Location	Date	Dup	Analyte:							
				Units:							
				CGWSL Source:							
				NMED TW	USEPA MCL	NMED TW		USEPA MCL	USEPA MCL	WQCC TW	
				Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	Methyl N-Butyl Ketone
				0.0203	0.07	0.0047	---	0.005	0.7	0.447	---
											mg/l
EP	MW-6A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-6B	Mar-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-6B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-7A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-7A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-7A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-7A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-7A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-7A	Nov-14	FD	< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-7A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-7B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-10	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-10	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-10	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-10	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-10	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-10	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-11A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-11A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-11A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-11B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-120	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-120	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-120	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-121	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-121	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-121	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-122	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-122	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-122	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-123	Nov-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-123	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-123	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-123	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-124	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-124	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-124	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-15	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.011	< 0.010
	MW-15	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.011	< 0.010
	MW-15	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-15	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-18A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-18A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-18A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-18A	Nov-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010

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Location Name	Location	Date	Dup	Analyte:							
				Units:							
				CGWSL:							
				CGWSL Source:							
				Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				0.0203	0.07	0.0047	---	0.005	0.7	0.447	---
				NMED TW	USEPA MCL	NMED TW		USEPA MCL	USEPA MCL	WQCC TW	
EP	MW-18A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-18A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-18A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-18B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-22A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-22A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-22A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-22A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-22A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-22A	Nov-14	FD	< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-22A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-22B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-70	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-70	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-70	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-70	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-70	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-70	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-72	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-72	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-72	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-72	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-72	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-73	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-73	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-73	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-73	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-73	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-73	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-74	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-74	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-74	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-74	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-74	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-74	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-75	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-75	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-75	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-75	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-75	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-75	Nov-14		< 0.0014	< 0.0013	< 0.0021	< 0.0018	< 0.0050	< 0.0019	0.012	< 0.0036
	MW-76	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-76	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-76	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.013	< 0.010
	MW-76	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-76	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Analyte:				Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
CGWSL Source:				NMED TW	USEPA MCL	NMED TW		USEPA MCL	USEPA MCL	WQCC TW		
Location Name	Location	Date	Dup									
EP	MW-76	Nov-14		< 0.0014	< 0.0013	< 0.0021	< 0.0018	< 0.0050	< 0.0019	0.02	< 0.0036	< 0.019
	MW-77	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-77	Sep-12		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.050	< 0.050
	MW-77	Mar-13		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.050	< 0.050
	MW-77	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-77	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-77	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	0.0016 J	< 0.00050	0.0027 J	< 0.0010
	MW-77	Nov-14		< 0.0014	< 0.0013	< 0.0021	0.0036 J	< 0.0050	0.0072	0.031	0.0066 J	< 0.019
	MW-78	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-78	Mar-13		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.025	< 0.025	< 0.050	< 0.050
	MW-78	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	0.0013 J	< 0.00050	< 0.00060	< 0.0010
	MW-79	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-79	Sep-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-79	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-79	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-79	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-79	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-79	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-80	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-80	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-80	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-81	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-81	Mar-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-81	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-81	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-82	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-82	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-82	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-82	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-83	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-83	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-83	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-83	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-83	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-83	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	0.00044 J	0.0028	< 0.00072	< 0.0038
	MW-84	Mar-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-84	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-84	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-84	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-84	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-84	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-84	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	0.00098 J	0.00052 J	< 0.00072	< 0.0038
	MW-87	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-87	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-87	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010

Navajo Refining, Artesia, New Mexico

Analysis:	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:	0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
Source:	NMED TW	USEPA MCL	NMED TW	---	USEPA MCL	USEPA MCL	WQCC TW	---	---

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Analyte: Units: CGWSL Source:				Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
				0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	
				NMED TW	USEPA MCL	NMED TW	USEPA MCL	USEPA MCL	WQCC TW	---	---	
Location Name	Location	Date	Dup									
EP	OCD-6	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	OCD-7AR	Mar-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-7AR	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-7AR	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-7AR	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-7AR	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	OCD-7AR	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	OCD-7AR	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	OCD-7B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-8A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-8A	Sep-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-8A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-8A	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-8A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-8A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	OCD-8A	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	OCD-8A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	OCD-8A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	OCD-8B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
Field E of Refinery	KWB-1A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-1A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-1A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-1A	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-1A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	KWB-1A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	KWB-1C	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-7	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-7	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-7	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-7	Nov-14		< 0.0028	< 0.0026	< 0.0042	0.0066 J	< 0.01	0.073	0.042	0.036	< 0.038
	KWB-10R	Nov-14		< 0.0069	< 0.0065	< 0.01	0.013 J	< 0.025	0.4	0.04	0.9	< 0.096
	KWB-11A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-11A	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-11A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-11A	Nov-14	FD	< 0.00028	< 0.00026	< 0.00042	0.00056 J	< 0.0010	< 0.00038	0.0024	0.0015 J	< 0.0038
	KWB-11A	Nov-14		< 0.00028	< 0.00026	< 0.00042	0.00062 J	< 0.0010	< 0.00038	0.0029	0.0017 J	< 0.0038
	KWB-11B	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-11B	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-11B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-11B	Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0065	< 0.0010	0.020	0.031	0.0043 J	< 0.0010
	KWB-11B	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	KWB-12A	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-12A	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-12A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	KWB-12A	Nov-14	FD	< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Analyte:				Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
CGWSL Source:				NMED TW	USEPA MCL	NMED TW	---	USEPA MCL	USEPA MCL	WQCC TW	---	---
Location Name	Location	Date	Dup									
Field E of Refinery	KWB-12B	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-12B	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-12B	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-12B	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-12B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-12B	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	KWB-12B	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	KWB-12B	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	KWB-12B	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	KWB-P4	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-57	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-57	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-57	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-57	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-57	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-57	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-58	Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.073	< 0.050	0.11	< 0.10
	MW-58	Nov-14		< 0.0069	< 0.0065	< 0.01	< 0.0088	< 0.025	2.4	0.066	1.6	< 0.096
	MW-111	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.016	< 0.0050	< 0.010	< 0.010
	MW-111	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.016	< 0.0050	< 0.010	< 0.010
	MW-111	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	0.0085	0.0013 J	0.0046 J	< 0.0010
	MW-111	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	0.026	0.0024	0.022	< 0.0038
	MW-112	Nov-14		< 0.0069	< 0.0065	< 0.01	< 0.0088	< 0.025	0.97	0.057	1.4	< 0.096
	MW-113	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-113	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.19	< 0.0050	0.26	< 0.010
	MW-113	Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0015 J	< 0.0010	0.40	0.013	0.82	< 0.0010
	MW-113	Nov-14	FD	< 0.0028	< 0.0026	< 0.0042	< 0.0035	< 0.01	0.0079 J	0.0097 J	0.085	< 0.038
	MW-113	Nov-14		< 0.00028	< 0.00026	< 0.00042	0.00094 J	< 0.0010	0.0070	0.0097	0.086	< 0.0038
	MW-125	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-125	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-126A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	0.0035 J	< 0.0010
	MW-126A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	0.016	< 0.00072	< 0.0038
	MW-126B	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-126B	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-127	Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0049 J	< 0.0010	0.93	0.049	0.54	< 0.0010
	MW-127	Nov-14		< 0.00028	< 0.00026	< 0.00042	0.0018	< 0.0010	0.24	0.012	0.082	< 0.0038
	MW-128	Apr-14		0.0028 J	< 0.00060	< 0.00060	< 0.00050	< 0.0010	0.043	0.0063	0.014	< 0.0010
	MW-128	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	0.012	0.0023	0.0055	< 0.0038
	MW-129	Nov-14		< 0.0028	< 0.0026	< 0.0042	< 0.0035	< 0.01	0.025	0.0044 J	0.043	< 0.038
	MW-131	Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0060	< 0.0010	0.21	0.036	0.47	< 0.0010
	MW-131	Nov-14		< 0.0028	< 0.0026	< 0.0042	0.0036 J	< 0.01	0.067	0.016	0.12	< 0.038
	MW-133	Nov-14		< 0.028	< 0.026	< 0.042	< 0.035	< 0.1	0.3	0.057 J	0.18 J	< 0.38
	MW-134	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-134	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-135	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010

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				Analyte:	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
				CGWSL Source:	NMED TW	USEPA MCL	NMED TW		USEPA MCL	USEPA MCL	WQCC TW		
Location Name	Location	Date	Dup										
Field E of Refinery	MW-135	Nov-14			< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	RA-4196	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4196	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4196	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4196	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4196	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4196	Nov-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4196	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4196	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	RA-4798	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4798	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4798	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4798	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-4798	Apr-14	FD		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	RA-4798	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	RA-4798	Nov-14			< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
				CGWSL Source:	NMED TW	USEPA MCL	NMED TW	---	USEPA MCL	USEPA MCL	WQCC TW	---	---
Location Name	Location	Date	Dup										
Field E of Refinery	RW-18	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RW-18	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RW-18	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RW-18	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
N Refinery	MW-23	Apr-12			< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.32	0.10	0.057	< 0.050
	MW-23	Oct-12			< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.29	0.083	0.065	< 0.050
	MW-23	Apr-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.64	0.13	< 0.10	< 0.10
	MW-23	Oct-13			< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.35	0.087	< 0.10	< 0.10
	MW-23	Apr-14			< 0.010	< 0.012	< 0.012	< 0.010	< 0.020	0.32	0.097 J	0.035 J	< 0.020
	MW-23	Nov-14			< 0.014	< 0.013	< 0.021	< 0.018	< 0.05	0.19	0.048 J	0.9	< 0.19
	MW-29	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-29	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-29	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-29	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-29	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-29	Nov-14			< 0.00028	< 0.00026	< 0.00042	0.0022	< 0.0010	< 0.00038	0.0020	< 0.00072	< 0.0038
	MW-39	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0072	0.032	0.045	< 0.010
	MW-40	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.042	< 0.010	< 0.010
	MW-40	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.072	< 0.010	< 0.010
	MW-40	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.047	0.0056 J	< 0.0010
	MW-41	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.011	< 0.010	< 0.010
	MW-41	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.013	< 0.010	< 0.010
	MW-41	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.014	< 0.010	< 0.010
	MW-41	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-41	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.014	< 0.00060	< 0.0010
	MW-42	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.039	0.13	< 0.010
	MW-42	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.029	0.094	< 0.010
	MW-42	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.042	0.16	< 0.010
	MW-42	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.041	0.22	< 0.010
	MW-42	Apr-14			< 0.00050	< 0.00060	< 0.00060	0.0011 J	< 0.0010	0.0030 J	0.039	0.11	< 0.0010
	MW-43	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.013	0.067	0.18	< 0.010
	MW-43	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.042	0.062	0.23	< 0.010
	MW-43	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.041	0.061	0.23	< 0.010
	MW-43	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0091	0.059	0.093	< 0.010
	MW-43	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.065	0.071	0.36	< 0.010
	MW-43	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.061	0.069	0.35	< 0.010
	MW-43	Apr-14			< 0.00050	< 0.00060	< 0.00060	0.0017 J	< 0.0010	0.015	0.052	0.14	< 0.0010
	MW-43	Nov-14			< 0.0028	< 0.0026	< 0.0042	< 0.0035	< 0.01	0.021	0.05	0.16	< 0.038
	MW-59	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-59	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-59	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.0061	< 0.00060	< 0.0010
	MW-60	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.029	0.016	< 0.010
	MW-60	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.019	0.013	< 0.010
	MW-60	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.021	0.017	< 0.010
	MW-60	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.024	0.019	< 0.010

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Location Name	Location	Date	Dup	Analyte:		Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
				Units:		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:		0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
				CGWSL Source:		NMED TW	USEPA MCL	NMED TW	---	USEPA MCL	USEPA MCL	WQCC TW	---	---
N Refinery	MW-60	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.025	0.019	< 0.010
	MW-60	Oct-13	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.019	0.012	< 0.010
	MW-60	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.018	< 0.010	< 0.010
	MW-60	Apr-14				< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	0.0019 J	0.018	0.0063 J	< 0.0010
	MW-60	Nov-14				< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	0.013	< 0.00072	< 0.0038
	MW-61	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.097	0.084	0.48	< 0.010
	MW-61	Oct-12				< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.11	0.059	0.44	< 0.050
	MW-61	Apr-13				< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.091	0.074	0.42	< 0.050
	MW-61	Oct-13				< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.099	0.062	0.41	< 0.050
	MW-61	Apr-14				< 0.0025	< 0.0030	< 0.0030	0.0045 J	< 0.0050	0.11	0.065	0.41	< 0.0050
	MW-61	Nov-14				< 0.014	< 0.013	< 0.021	< 0.018	< 0.05	0.16	0.11	1.2	< 0.19
	MW-62	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.063	0.072	0.20	< 0.010
	MW-62	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.10	0.081	0.26	< 0.010
	MW-62	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.031	0.099	0.17	< 0.010
	MW-62	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.53	0.076	1.9	< 0.010
	MW-62	Apr-14				< 0.00050	< 0.00060	< 0.00060	0.0034 J	< 0.0010	0.093	0.070	0.72	< 0.0010
	MW-62	Nov-14				< 0.014	< 0.013	< 0.021	< 0.018	< 0.05	0.91	0.14	0.08 J	< 0.19
	MW-67	Oct-13				< 0.0050	0.0064	< 0.0050	< 0.0050	< 0.010	0.051	0.054	0.032	< 0.010
	MW-67	Nov-14				< 0.0014	0.0022 J	< 0.0021	< 0.0018	< 0.0050	0.0050	0.027	0.0084 J	< 0.019
	MW-90	Apr-12	FD			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.030	< 0.010	< 0.010
	MW-90	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.026	< 0.010	< 0.010
	MW-90	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.029	< 0.010	< 0.010
	MW-90	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.037	< 0.010	< 0.010
	MW-90	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.027	< 0.010	< 0.010
	MW-90	Apr-14				< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.027	< 0.00060	< 0.0010
	MW-90	Nov-14				< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	0.00039 J	0.012	< 0.00072	< 0.0038
	MW-91	Oct-13	FD			< 0.0050	< 0.0050	< 0.0050	0.010	< 0.010	0.048	0.13	0.50	< 0.010
	MW-91	Oct-13				< 0.0050	< 0.0050	< 0.0050	0.010	< 0.010	0.046	0.13	0.47	< 0.010
	MW-91	Apr-14				< 0.0025	< 0.0030	< 0.0030	0.0077 J	< 0.0050	0.15	0.10	0.54	< 0.0050
	MW-91	Nov-14				< 0.069	< 0.065	< 0.1	< 0.088	< 0.25	0.17 J	0.1 J	0.54	< 0.96
	MW-93	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.23	0.056	0.52	< 0.010
	MW-93	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.17	0.054	0.48	< 0.010
	MW-93	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.050	0.069	0.57	< 0.010
	MW-93	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.12	0.068	0.54	< 0.010
	MW-93	Apr-14				< 0.0025	< 0.0030	< 0.0030	0.0085 J	< 0.0050	0.067	0.068	0.60	< 0.0050
	MW-93	Nov-14				< 0.014	< 0.013	< 0.021	< 0.018	< 0.05	0.039 J	0.05 J	0.45	< 0.19
	MW-94	Nov-14				< 0.0055	< 0.0052	< 0.0084	0.02	< 0.02	0.58	0.084	0.31	< 0.076
	MW-95	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.0057	< 0.010	< 0.010
	MW-95	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.0053	< 0.010	< 0.010
	MW-95	Apr-14				< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.0058	< 0.00060	< 0.0010
	MW-96	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.070	< 0.010	< 0.010
	MW-96	Oct-12				< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	0.073	< 0.10	< 0.10
	MW-96	Apr-13				< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	0.073	< 0.10	< 0.10
	MW-96	Oct-13				< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	0.067	< 0.10	< 0.10
	MW-96	Apr-14				< 0.012	< 0.015	< 0.015	< 0.012	< 0.025	< 0.012	0.076 J	0.037 J	< 0.025

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Analyte:				Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
CGWSL Source:				NMED TW	USEPA MCL	NMED TW	---	USEPA MCL	USEPA MCL	WQCC TW	---	---
Location Name	Location	Date	Dup									
N Refinery	MW-96	Nov-14		< 0.0069	< 0.0065	< 0.01	< 0.0088	< 0.025	< 0.0096	0.055	< 0.018	< 0.096
	MW-98	Apr-12		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	1.2	0.084	1.7	< 0.050
	MW-98	Oct-12		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	1.1	0.092	2.0	< 0.10
	MW-98	Apr-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	1.0	0.098	1.9	< 0.10
	MW-98	Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	1.2	0.078	1.9	< 0.10
	MW-98	Apr-14	FD	< 0.0050	< 0.0060	< 0.0060	< 0.0050	< 0.010	1.0	0.078	2.0	< 0.010
	MW-98	Apr-14		< 0.0050	< 0.0060	< 0.0060	0.0080 J	< 0.010	1.0	0.085	1.9	< 0.010
	MW-98	Nov-14		< 0.069	< 0.065	< 0.1	< 0.088	< 0.25	0.63	< 0.082	1.6	< 0.96
	RW-9	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RW-9	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.13	0.015	< 0.010
	RW-9	Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0013 J	< 0.0010	0.0015 J	0.10	0.024	< 0.0010
	RW-10	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0099	0.13	0.047	< 0.010
	RW-10	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RW-10	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	RW-16	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RW-16	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.00084 J	< 0.00060	< 0.0010
	RW-16	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.00087 J	< 0.00060	< 0.0010
	RW-16A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RW-17	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RW-17	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	RW-17A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
N RO Reject Field	MW-117	Feb-13						< 0.00040	< 0.00030			
	MW-117	May-13						< 0.00040	< 0.00030			
	MW-117	Sep-13						< 0.00040	< 0.00030			
	MW-117	Nov-13						< 0.00040	< 0.00030			
	MW-117	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-117	Nov-14	FD	< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-117	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-118	Feb-13						< 0.00040	0.0024			
	MW-118	May-13						< 0.00040	< 0.00030			
	MW-118	Sep-13						< 0.00040	< 0.00030			
	MW-118	Nov-13						< 0.00040	< 0.00030			
	MW-118	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-118	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-119	Feb-13						< 0.00040	0.0021			
	MW-119	May-13						< 0.00040	< 0.00030			
	MW-119	Sep-13						< 0.00040	< 0.00030			
	MW-119	Nov-13						< 0.00040	< 0.00030			
	MW-119	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-119	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
MW-119	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038	

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Analyte:				Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
CGWSL Source:				NMED TW	USEPA MCL	NMED TW	---	USEPA MCL	USEPA MCL	WQCC TW	---	---
Location Name	Location	Date	Dup									
NCL	MW-18	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-18	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-18	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-18	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-18	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-18	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-45	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-45	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-45	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-45	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-45	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-45	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-53	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-53	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-53	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-54A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-54A	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-54A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-54A	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-54A	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-54A	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-54B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-55	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-55	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-55	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-55	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-55	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-55	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-55	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-55	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-56	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-56	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-56	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-56	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-56	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-56	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-56	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Analyte: Units:				Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
CGWSL:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL Source:				0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
Location Name	Location	Date	Dup	NMED TW	USEPA MCL	NMED TW	---	USEPA MCL	USEPA MCL	WQCC TW	---	---
NCL	MW-108	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.024	0.039	< 0.010
	MW-108	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.025	0.042	< 0.010
	MW-108	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.034	0.048	< 0.010
	MW-108	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.022	0.049	< 0.010
	MW-108	Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0019 J	< 0.0010	0.0049 J	0.023	0.051	< 0.0010
	MW-108	Nov-14		< 0.0014	< 0.0013	< 0.0021	0.0028 J	< 0.0050	0.0056	0.024	0.056	< 0.019
	NCL-31	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-31	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-31	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-31	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-31	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.00055 J	< 0.00060	< 0.0010
	NCL-32	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	NCL-33	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-33	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-33	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-33	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-33	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	NCL-33	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	NCL-34A	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.25	0.11	0.20	< 0.010
	NCL-34A	Nov-14		< 0.0014	< 0.0013	< 0.0021	0.0082	< 0.0050	0.0048 J	0.091	0.1	< 0.019
	NCL-44	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-44	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-44	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-44	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-44	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.0013 J	< 0.00060	< 0.0010
	NCL-44	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	0.0018	< 0.00072	< 0.0038
	NCL-49	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-49	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-49	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-49	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-49	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NCL-49	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	NCL-49	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	NCL-49	Nov-14	FD	< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
S Refinery	KWB-2R	Nov-14		< 0.0069	< 0.0065	< 0.01	< 0.0088	< 0.025	2.9	0.082	0.71	< 0.096
	KWB-4	Oct-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.050	< 0.050	< 0.10	< 0.10
	KWB-5	Nov-14		< 0.0028	< 0.0026	< 0.0042	< 0.0035	< 0.01	0.0095 J	0.0066 J	< 0.0072	< 0.038
	KWB-6	Nov-14		< 0.0028	< 0.0026	< 0.0042	0.0042 J	< 0.01	0.81	0.04	0.93	< 0.038
	MW-28	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.024	0.071	0.087	< 0.010
	MW-28	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.016	0.024	0.021	< 0.010
	MW-28	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0053	0.020	< 0.010	< 0.010
	MW-28	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.022	< 0.010	< 0.010
	MW-28	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	0.0052	0.019	0.0080 J	< 0.0010
	MW-28	Nov-14		< 0.0069	< 0.0065	< 0.01	< 0.0088	< 0.025	0.15	0.066	0.22	< 0.096
MW-48	Nov-14		< 0.0069	< 0.0065	< 0.01	< 0.0088	< 0.025	0.075	0.041	0.12	< 0.096	

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:							
				Units:							
				CGWSL:							
				CGWSL Source:							
				Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				0.0203	0.07	0.0047	---	0.005	0.7	0.447	---
				NMED TW	USEPA MCL	NMED TW		USEPA MCL	USEPA MCL	WQCC TW	
S Refinery	MW-50	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-50	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-50	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-50	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-50	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-50	Nov-14		< 0.00028	< 0.00026	< 0.00042	0.00086 J	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-52	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-52	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-52	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-52	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-52	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010
	MW-52	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060
	MW-52	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.0010
	MW-52	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072
	MW-65	Nov-14		< 0.014	< 0.013	< 0.021	< 0.018	< 0.05	1.2	0.053	0.18
	MW-66	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0075	0.043	< 0.010
	MW-66	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.020	0.061	0.021
	MW-66	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0074	0.064	< 0.010
	MW-66	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.020	0.074	0.022
	MW-66	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050 J	< 0.010	0.019	0.073	0.022
	MW-66	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	0.0039 J	0.030	0.0055 J
	MW-66	Nov-14		< 0.0028	< 0.0026	< 0.0042	< 0.0035	< 0.01	0.19	0.079	0.1
	MW-99	Nov-14		< 0.0028	< 0.0026	< 0.0042	0.0083 J	< 0.01	0.59	0.037	0.69
	MW-101	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.081	0.018	0.038
	MW-101	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.048	0.018	0.019
	MW-101	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.054	0.020	0.025
	MW-101	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.025	< 0.0050	0.013
	MW-101	Apr-14		< 0.00050	R	< 0.00060	< 0.00050	< 0.0010	0.015	0.0074	0.011
	MW-101	Nov-14		< 0.0028	< 0.0026	< 0.0042	< 0.0035	< 0.01	0.0050 J	0.0078 J	< 0.0072
	MW-102	Nov-14		< 0.014	< 0.013	< 0.021	< 0.018	< 0.05	0.99	0.04 J	1.3
	MW-103	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.14	0.020	< 0.010
	MW-103	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.036	0.020	< 0.010
	MW-103	Apr-14		< 0.00050	< 0.00060	< 0.00060	0.0036 J	< 0.0010	0.15	0.031	0.012
	MW-104	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.061	< 0.010
	MW-104	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.065	< 0.010
	MW-104	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.075	< 0.010
	MW-104	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.051	< 0.010
	MW-104	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	0.021	0.0013 J	0.052	< 0.00060
	MW-104	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	0.020	0.0012 J	0.052	< 0.00060
	MW-104	Nov-14	FD	< 0.0028	< 0.0026	< 0.0042	< 0.0035	< 0.01	< 0.0038	0.046	< 0.0072
	MW-104	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	0.0021	0.037	< 0.00072
	MW-105	Nov-14		< 0.069	< 0.065	< 0.1	< 0.088	< 0.25	0.58	< 0.082	0.23 J
	MW-106	Apr-12		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.057	0.049	0.24
	MW-106	Oct-12		< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.031	0.032	0.12
	MW-106	Apr-13		< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.10	0.073	0.44

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:		Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
				Units:		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:		0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
				CGWSL Source:		NMED TW	USEPA MCL	NMED TW	---	USEPA MCL	USEPA MCL	WQCC TW	---	---
S Refinery	MW-106	Oct-13				< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.11	< 0.050	0.36	< 0.10
	MW-106	Apr-14				< 0.010	< 0.012	< 0.012	< 0.010	< 0.020	0.16	0.036 J	0.29	< 0.020
	MW-107	Apr-12	FD			< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.48	0.030	0.24	< 0.050
	MW-107	Apr-12				< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.50	0.031	0.25	< 0.050
	MW-107	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.43	0.040	0.22	< 0.010
	MW-107	Apr-13				< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.30	0.037	0.18	< 0.050
	MW-107	Oct-13				< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	0.20	0.028	0.12	< 0.050
	MW-107	Apr-14				< 0.0050	< 0.0060	< 0.0060	< 0.0050	< 0.010	0.048 J	0.024 J	0.12	< 0.010
	MW-107	Nov-14				< 0.0028	< 0.0026	< 0.0042	< 0.0035	< 0.01	0.3	0.042	0.12	< 0.038
	MW-109	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.20	0.014	0.016	< 0.010
	MW-109	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.11	0.0088	< 0.010	< 0.010
	MW-109	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.060	0.011	< 0.010	< 0.010
	MW-109	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.023	0.011	< 0.010	< 0.010
	MW-109	Apr-14				< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	0.050	0.011	0.0059 J	< 0.0010
	MW-109	Nov-14				0.0010 J	< 0.00026 J3	< 0.00042 J3J3	< 0.00035 J3	< 0.0010	0.02	0.028	0.0027 J3	< 0.0038 J5J3
	MW-110	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.17	0.014	0.014	< 0.010
	MW-110	Oct-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.083	0.012	< 0.010	< 0.010
	MW-110	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.064	0.013	< 0.010	< 0.010
	MW-110	Oct-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0066	< 0.0050	< 0.010	< 0.010
	MW-110	Apr-14				< 0.00050	< 0.00060	< 0.00060	0.0017 J	< 0.0010	0.070	0.021	0.028	< 0.0010
	MW-110	Nov-14				< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	0.0016	0.0022	< 0.00072	< 0.0038
	MW-130	Apr-14				< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-130	Nov-14				< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	RA-313	Apr-12				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-313	Apr-13				< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	RA-313	Apr-14				< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
S RO Reject Field	MW-114	Feb-13								< 0.00040	< 0.00030			
	MW-114	May-13								< 0.00040	< 0.00030			
	MW-114	Sep-13								< 0.00040	< 0.00030			
	MW-114	Nov-13								< 0.00040	< 0.00030			
	MW-114	Apr-14				< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-114	Nov-14				< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-115	Feb-13								< 0.00040	< 0.00030			
	MW-115	May-13	FD							< 0.00040	< 0.00030			
	MW-115	May-13								< 0.00040	< 0.00030			
	MW-115	Sep-13								< 0.00040	< 0.00030			
	MW-115	Nov-13								< 0.00040	< 0.00030			
	MW-115	Apr-14				< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-115	Nov-14				< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-116	Feb-13								< 0.00040	< 0.00030			
	MW-116	May-13								< 0.00040	< 0.00030			
	MW-116	Sep-13	FD							< 0.00040	< 0.00030			
	MW-116	Sep-13								< 0.00040	< 0.00030			
	MW-116	Nov-13	FD							< 0.00040	< 0.00030			
	MW-116	Nov-13								< 0.00040	< 0.00030			

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
				CGWSL Source:	NMED TW	USEPA MCL	NMED TW		USEPA MCL	USEPA MCL	WQCC TW		
Location Name	Location	Date	Dup										
S RO Reject Field	MW-116	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-116	Nov-14			< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-49	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0091	0.025	0.070	< 0.010
	MW-49	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0091	0.025	0.071	< 0.010
	MW-49	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0071	0.025	0.055	< 0.010
	MW-49	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0064	0.028	0.044	< 0.010
	MW-49	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0070	0.026	0.043	< 0.010
	MW-49	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0094	0.024	0.066	< 0.010
	MW-49	Apr-14			< 0.00050	< 0.00060	< 0.00060	0.00090 J	< 0.0010	0.0043 J	0.018	0.034	< 0.0010
	MW-49	Nov-14			< 0.00055	< 0.00052	< 0.00084	0.00095 J	< 0.0020	0.0036	0.022	0.026	< 0.0076
	TEL-1	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	TEL-1	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	TEL-1	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	TEL-1	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	TEL-1	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	TEL-1	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	TEL-1	Apr-14	FD		< 0.00050	< 0.00060	< 0.00060	0.0021 J	< 0.0010	< 0.00050	0.0019 J	< 0.00060	< 0.0010
	TEL-1	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	0.0020 J	< 0.00060	< 0.0010
	TEL-1	Nov-14			< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	0.00047 J	0.0013	< 0.00072	< 0.0038
	TEL-2	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.014	0.053	0.18	< 0.010
	TEL-2	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.011	0.050	0.22	< 0.010
	TEL-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.014	0.059	0.26	< 0.010
	TEL-2	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.012	0.047	0.23	< 0.010
	TEL-2	Apr-14			< 0.00050	< 0.00060	< 0.00060	0.0055	< 0.0010	0.015	0.050	0.24	< 0.0010
	TEL-2	Nov-14			< 0.0028	< 0.0026	< 0.0042	0.0043 J	< 0.01	0.0099 J	0.043	0.18	< 0.038
	TEL-3	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.066	0.013	< 0.010
	TEL-3	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.062	0.014	< 0.010
	TEL-3	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.074	0.015	< 0.010
	TEL-3	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.063	0.016	< 0.010
	TEL-3	Apr-14			< 0.00050	< 0.00060	< 0.00060	0.0015 J	< 0.0010	< 0.00050	0.060	0.018	< 0.0010
	TEL-3	Nov-14			< 0.00028	< 0.00026	< 0.00042	0.00088 J	< 0.0010	0.00068 J	0.05	0.012	< 0.0038
	TEL-4	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.032	0.020	< 0.010
	TEL-4	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.038	0.026	< 0.010
	TEL-4	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.052	0.058	< 0.010
	TEL-4	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	0.039	0.054	< 0.010
	TEL-4	Apr-14			< 0.00050	< 0.00060	< 0.00060	0.0029 J	< 0.0010	0.0035 J	0.044	0.060	< 0.0010
	TEL-4	Nov-14	FD		< 0.0055	< 0.0052	< 0.0084	< 0.0070	< 0.02	0.0085 J	0.048	0.12	< 0.076
	TEL-4	Nov-14			< 0.0055	< 0.0052	< 0.0084	< 0.0070	< 0.02	0.0087 J	0.048	0.12	< 0.076
TMD	MW-8	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-8	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-8	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-8	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-8	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-16	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
TMD	MW-16	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010

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Analyte: Units: CGWSL Source:				Chloromethane mg/l 0.0203 NMED TW	cis-1,2-Dichloroethene mg/l 0.07 USEPA MCL	cis-1,3-Dichloropropene mg/l 0.0047 NMED TW	Cymene mg/l --- ---	Dichloromethane mg/l 0.005 USEPA MCL	Ethylbenzene mg/l 0.7 USEPA MCL	Isopropylbenzene mg/l 0.447 WQCC TW	m,p-Xylene mg/l --- ---	Methyl N-Butyl Ketone mg/l --- ---
Location Name	Location	Date	Dup									
TMD	MW-16	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-20	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-20	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-20	Apr-14	FD	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-20	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-21	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-21	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-21	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-21	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-21	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-21	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-21	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-25	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-25	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-25	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-26	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-26	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-26	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-27	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-27	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-27	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-46R	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-46R	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-46R	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-46R	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-46R	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	0.00086 J	< 0.00050	0.0015 J	< 0.0010
	MW-46R	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038
	MW-68	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-68	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-68	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	MW-71	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-71	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-71	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-71	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-71	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	MW-71	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
MW-89	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	
MW-89	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	
MW-89	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010	
NP-1	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	
NP-1	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	
NP-1	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	
NP-1	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	
NP-1	Apr-14		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010	
NP-1	Nov-14		< 0.00028	< 0.00026	< 0.00042	< 0.00035	< 0.0010	< 0.00038	< 0.00033	< 0.00072	< 0.0038	

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				Analyte:	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.0203	0.07	0.0047	---	0.005	0.7	0.447	---	---
				CGWSL Source:	NMED TW	USEPA MCL	NMED TW		USEPA MCL	USEPA MCL	WQCC TW		
Location Name	Location	Date	Dup										
TMD	NP-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NP-6	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	NP-6	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
Upgradient	UG-1	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	UG-1	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	UG-1	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	UG-2	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	UG-2	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	UG-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	UG-2	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	UG-3R	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	UG-3R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	UG-3R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010
	UG-3R	Apr-14	FD		< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010
	UG-3R	Apr-14			< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.0010

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				Analyte:	Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				CGWSL Source:	WQCC TW	WQCC HH	---	---	WQCC TW	---	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
Location Name	Location	Date	Dup											
Crossgradient	KWB-13	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-13	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-13	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	NP-5	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NP-5	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NP-5	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-3156	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-3156	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-3156	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-3156	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
EP	RA-3156	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-1R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-1R	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-1R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-1R	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-2A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-2A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-2A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-2A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-2A	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-2A	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-3	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-3	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-3	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-3	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-3	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-3	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-3	Nov-14	FD		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-4A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-4A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-4A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-4A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-4A	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-4A	Nov-14			0.00044 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	0.00041 J	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-4B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-5A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-5A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-5A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-5A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-5A	Apr-14			0.0032 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-5A	Nov-14			0.00081 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-5B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-5C	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-6A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-6A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015

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Navajo Refining, Artesia, New Mexico

Analyte: Units: CGWSL Source:				Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
Location Name	Location	Date	Dup										
EP	MW-6A	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	0.0016 J	< 0.00060	< 0.00050	< 0.00060	< 0.00050	0.0016 J
	MW-6B	Mar-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-6B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-7A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-7A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-7A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-7A	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-7A	Apr-14		0.0018 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-7A	Nov-14	FD	0.0025	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-7A	Nov-14		0.0020	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-7B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-10	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-10	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-10	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-10	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-10	Apr-14		0.0020 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-10	Nov-14		0.0018	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-11A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-11A	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-11A	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-11B	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-120	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-120	Apr-14		< 0.00060	0.0026 J	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-120	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-121	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-121	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-121	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-122	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-122	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-122	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-123	Nov-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-123	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-123	Apr-14		0.0014 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-123	Nov-14		0.0017	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-124	Nov-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-124	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-124	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-15	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
MW-15	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-15	Mar-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-15	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015	
MW-18A	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-18A	Sep-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-18A	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-18A	Nov-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				CGWSL Source:	WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
EP	MW-18A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-18A	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-18A	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-18B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-22A	Apr-12			0.0073	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-22A	Sep-12			0.0066	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-22A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-22A	Nov-13			0.0051	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-22A	Apr-14			0.0055	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-22A	Nov-14	FD		0.0099	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-22A	Nov-14			0.0080	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-22B	Apr-13			0.0065	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-70	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-70	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-70	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-70	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-70	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-70	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-72	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-72	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-72	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-72	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-72	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-73	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-73	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-73	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-73	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-73	Apr-14			0.0016 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-74	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-74	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-74	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-74	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-74	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-74	Nov-14			0.00053 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-75	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-75	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-75	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-75	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-75	Apr-14			0.0047 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-75	Nov-14			0.0028 J	< 0.0050	< 0.0018	< 0.0017	< 0.0017	< 0.0018	< 0.0015	< 0.0019	< 0.0039	< 0.0053
	MW-76	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-76	Sep-12			0.0063	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-76	Mar-13			0.0059	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-76	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-76	Apr-14			0.0037 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015

Navajo Refining, Artesia, New Mexico

Location Name
EP

Navajo Refining, Artesia, New Mexico

[illegible]

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

				Analyte:	Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				CGWSL Source:	WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
Location Name	Location	Date	Dup											
EP	OCD-6	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	OCD-7AR	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-7AR	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-7AR	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-7AR	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-7AR	Apr-14	FD		0.0018 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	OCD-7AR	Apr-14			0.0015 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	OCD-7AR	Nov-14			0.0022	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	OCD-7B	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-8A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-8A	Sep-12	FD		0.0054	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-8A	Sep-12			0.0057	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-8A	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-8A	Apr-13			0.0056	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-8A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	OCD-8A	Apr-14	FD		0.0047 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	OCD-8A	Apr-14			0.0044 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	OCD-8A	Nov-14			0.0040	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	OCD-8B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
Field E of Refinery	KWB-1A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-1A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-1A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-1A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-1A	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	KWB-1A	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	KWB-1C	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-7	Apr-12			0.020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-7	Oct-12			0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-7	Apr-13			0.012	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-7	Nov-14			0.013	0.03 J	0.0037 J	0.048	0.015	0.01 J	< 0.0031	< 0.0037	< 0.0078	0.051
	KWB-10R	Nov-14			5.2 5.9 E	0.19	0.011 J	0.062	0.32	0.01 J	< 0.0077	< 0.0093	0.18	1.2
	KWB-11A	Apr-12			0.0090	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-11A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-11A	Apr-13			0.0075	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-11A	Nov-14	FD		0.0015	0.019	0.00092 J	< 0.00035	0.00068 J	0.0024	< 0.00031	< 0.00037	< 0.00078	0.0022 J
	KWB-11A	Nov-14			0.0012	0.015	0.00094 J	< 0.00035	0.00076 J	0.0027	< 0.00031	< 0.00037	< 0.00078	0.0025 J
	KWB-11B	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-11B	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-11B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-11B	Apr-14			< 0.00060	0.011	0.017	0.046	< 0.00050	0.014	< 0.00050	< 0.00060	< 0.00050	0.0043 J
	KWB-11B	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	KWB-12A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-12A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-12A	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	KWB-12A	Nov-14	FD		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Analyte: Units: CGWSL: CGWSL Source:				Methyl-tert-butylether mg/l 0.143 WQCC TW	Naphthalene mg/l 0.03 WQCC HH	N-Butylbenzene mg/l --- ---	N-Propylbenzene mg/l --- ---	o-Xylene mg/l 0.193 WQCC TW	sec-Butylbenzene mg/l --- ---	Styrene (Monomer) mg/l 0.1 USEPA MCL	Tetrachloroethene mg/l 0.005 USEPA MCL	Toluene mg/l 0.75 WQCC HH	Total Xylenes mg/l 0.62 WQCC HH	
Location Name	Location	Date	Dup											
Field E of Refinery	KWB-12B	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-12B	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-12B	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-12B	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-12B	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-12B	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	KWB-12B	Apr-14	FD	< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0015
	KWB-12B	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0015
	KWB-12B	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00037	< 0.00078	< 0.0011
	KWB-P4	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-57	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-57	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-57	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-57	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-57	Apr-14		< 0.00060	0.0010 J	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0015
	MW-57	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00037	< 0.00078	< 0.0011
	MW-58	Oct-13		0.37	0.067	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.15
	MW-58	Nov-14		< 0.0092	0.48	< 0.0090	0.1	0.076	0.0097 J	< 0.0077	< 0.0093	< 0.0093	< 0.02	1.6
	MW-111	Apr-13		2.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-111	Oct-13		1.6	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-111	Apr-14		2.0	0.0016 J	< 0.0010	0.00082 J	0.0011 J	< 0.00060	< 0.00050	< 0.00060	< 0.00060	0.0011 J	0.0057 J
	MW-111	Nov-14		1.6 E	0.0064 J4	< 0.00036	0.0022	0.0052	0.00052 J	< 0.00031	< 0.00037	< 0.00037	0.0016 J	0.027
	MW-112	Nov-14		1	0.2	< 0.0090	0.1	0.6	0.0091 J	< 0.0077	< 0.0093	< 0.0093	0.73	2
	MW-113	Apr-13		0.024	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-113	Oct-13		0.020	< 0.0050	< 0.0050	< 0.0050	0.033	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.070	0.29
	MW-113	Apr-14		0.010	< 0.00070	< 0.0010	0.011	0.090 J	< 0.00060	< 0.00050	< 0.00060	< 0.00060	0.064	0.91
	MW-113	Nov-14	FD	0.019	0.032 J	< 0.0036	< 0.0035	0.015	< 0.0036	< 0.0031	< 0.0037	< 0.0037	< 0.0078	0.1
	MW-113	Nov-14		0.02	0.048 J4	0.00081 J	0.0033	0.016	0.0011	< 0.00031	< 0.00037	< 0.00037	0.0046 J	0.1
	MW-125	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0015
	MW-125	Nov-14		< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00037	< 0.00078	< 0.0011
	MW-126A	Apr-14		< 0.00060	0.0013 J	< 0.0010	< 0.00050	0.0011 J	< 0.00060	< 0.00050	< 0.00060	< 0.00060	0.0022 J	0.0045 J
	MW-126A	Nov-14		< 0.00037	< 0.0010	< 0.00036	0.0032	< 0.00034	0.0030	< 0.00031	< 0.00037	< 0.00037	< 0.00078	< 0.0011
	MW-126B	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0015
	MW-126B	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00037	< 0.00078	< 0.0011
	MW-127	Apr-14		1.4	0.14	0.013	0.081	0.33	0.0072	0.011	< 0.00060	< 0.00060	2.4	0.87
	MW-127	Nov-14		0.76	0.04	0.0013	0.02	0.068	0.0020	< 0.00031	< 0.00037	< 0.00037	0.15	0.15
MW-128	Apr-14		1.3	0.012	0.0029 J	0.010	< 0.00050	0.0020 J	< 0.00050	< 0.00060	< 0.00060	0.0019 J	0.014 J	
MW-128	Nov-14		0.95 E	0.0061	< 0.00036	0.0032	< 0.00034	0.00059 J	< 0.00031	< 0.00037	< 0.00037	0.00092 J	0.0055	
MW-129	Nov-14		5.4 E	< 0.01	< 0.0036	0.0048 J	0.016	< 0.0036	< 0.0031	< 0.0037	< 0.0037	0.071	0.059	
MW-131	Apr-14		5.3	0.058	0.031	0.084	0.18	0.013	< 0.00050	< 0.00060	< 0.00060	1.4	0.65	
MW-131	Nov-14		5.6 E	0.043 J	0.0056 J	0.03	0.065	0.0047 J	< 0.00031	< 0.0037	< 0.0037	0.31	0.18	
MW-133	Nov-14		5.6	< 0.1	< 0.036	0.084 J	0.038 J	< 0.036	< 0.031	< 0.037	< 0.037	0.1 J	0.22 J	
MW-134	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0015	
MW-134	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00037	< 0.00078	< 0.0011	
MW-135	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00060	< 0.00050	< 0.0015	

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				CGWSL Source:	WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
Location Name	Location	Date	Dup											
Field E of Refinery	MW-135	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	RA-4196	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4196	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4196	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4196	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4196	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4196	Nov-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4196	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4196	Apr-14			0.0026 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	RA-4798	Apr-12			0.0053	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4798	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4798	Apr-13			0.016	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4798	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-4798	Apr-14	FD		0.0027 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	RA-4798	Apr-14			0.010	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	RA-4798	Nov-14			0.0086	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011

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Analyte: Units: CGWSL: CGWSL Source:				Methyl-tert-butylether mg/l 0.143 WQCC TW	Naphthalene mg/l 0.03 WQCC HH	N-Butylbenzene mg/l --- ---	N-Propylbenzene mg/l ---	o-Xylene mg/l 0.193 WQCC TW	sec-Butylbenzene mg/l ---	Styrene (Monomer) mg/l 0.1 USEPA MCL	Tetrachloroethene mg/l 0.005 USEPA MCL	Toluene mg/l 0.75 WQCC HH	Total Xylenes mg/l 0.62 WQCC HH	
Location Name	Location	Date	Dup											
Field E of Refinery	RW-18	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RW-18	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RW-18	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RW-18	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.0015
N Refinery	MW-23	Apr-12		< 0.025	0.23	< 0.025	0.14	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.075
	MW-23	Oct-12		< 0.025	0.22	< 0.025	0.11	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.075
	MW-23	Apr-13		< 0.050	0.20	< 0.050	0.17	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.15
	MW-23	Oct-13		< 0.050	0.16	< 0.050	0.12	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.15
	MW-23	Apr-14		< 0.012	0.20	< 0.020	0.15	< 0.010	0.013 J	< 0.010	0.012	< 0.010	0.035 J	
	MW-23	Nov-14		0.019 J	0.12 J	< 0.018	0.068	0.17	< 0.018	< 0.015	< 0.019	0.52	1.1	
	MW-29	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-29	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-29	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-29	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-29	Apr-14		< 0.00060	0.0026 J	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.0015
	MW-29	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	0.00073 J	< 0.00031	< 0.00037	< 0.00078	< 0.0011	
	MW-39	Oct-13		< 0.0050	< 0.0050	0.0053	0.040	0.041	0.0068	< 0.0050	0.0093	0.086		
	MW-40	Apr-12		< 0.0050	< 0.0050	< 0.0050	0.0080	< 0.0050	0.0079	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-40	Apr-13		< 0.0050	< 0.0050	< 0.0050	0.015	< 0.0050	0.013	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-40	Apr-14		< 0.00060	0.0028 J	< 0.0010	0.0062	< 0.00050	0.0089	< 0.00050	< 0.00060	< 0.00050	0.0056 J	
	MW-41	Apr-12			0.0051	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-41	Oct-12			0.0059	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-41	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-41	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-41	Apr-14			0.0036 J	0.0026 J	< 0.0010	< 0.00050	< 0.00050	0.0044 J	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-42	Apr-12			0.025	< 0.0050	< 0.0050	0.030	< 0.0050	0.0071	< 0.0050	< 0.0050	< 0.0050	0.13
	MW-42	Oct-12			0.024	< 0.0050	< 0.0050	0.022	< 0.0050	0.0051	< 0.0050	< 0.0050	< 0.0050	0.095
	MW-42	Apr-13			0.028	0.0054	< 0.0050	0.042	< 0.0050	0.0074	< 0.0050	< 0.0050	< 0.0050	0.16
	MW-42	Oct-13			0.021	< 0.0050	< 0.0050	0.042	< 0.0050	0.0064	< 0.0050	< 0.0050	< 0.0050	0.22
	MW-42	Apr-14			0.022	0.0043 J	< 0.0010	0.033	0.0011 J	0.0079	< 0.00050	< 0.00060	0.0023 J	0.11
	MW-43	Apr-12			< 0.0050	< 0.0050	0.0079	0.068	0.019	0.0092	< 0.0050	< 0.0050	0.044	0.20
	MW-43	Oct-12	FD		0.011	0.0090	0.0053	0.062	0.015	0.0071	< 0.0050	< 0.0050	0.042	0.24
	MW-43	Oct-12			0.019	0.0096	0.0052	0.062	0.015	0.0070	< 0.0050	< 0.0050	0.042	0.24
	MW-43	Apr-13			0.011	< 0.0050	0.0073	0.066	0.0096	0.0097	< 0.0050	< 0.0050	0.018	0.10
	MW-43	Oct-13	FD		0.0078	0.0096	0.0083	0.094	0.015	0.0098	< 0.0050	< 0.0050	0.045	0.38
	MW-43	Oct-13			0.0077	0.0099	0.0080	0.092	0.015	0.0094	< 0.0050	< 0.0050	0.044	0.37
MW-43	Apr-14			0.014	0.0050	0.0077	0.054	0.014	0.0091	< 0.00050	< 0.00060	0.029	0.16	
MW-43	Nov-14			0.011	< 0.01	< 0.0036	0.046	0.012	0.0078 J	< 0.0031	< 0.0037	0.03 J	0.17	
MW-59	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-59	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-59	Apr-14			< 0.00060	< 0.00070	< 0.0010	0.00066 J	< 0.00050	0.0013 J	< 0.00050	< 0.00060	< 0.00050	< 0.0015	
MW-60	Apr-12			< 0.0050	< 0.0050	< 0.0050	0.0054	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.016	
MW-60	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	0.0090	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-60	Oct-12			< 0.0050	< 0.0050	< 0.0050	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.017	
MW-60	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	0.0066	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.019	

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:									
				Units:									
				CGWSL:									
				CGWSL Source:									
				Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
N Refinery	MW-60	Apr-13		< 0.0050	< 0.0050	< 0.0050	0.0065	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.019
	MW-60	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	0.0068	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-60	Oct-13		< 0.0050	< 0.0050	< 0.0050	0.0064	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-60	Apr-14		< 0.00060	0.0041 J	< 0.0010	0.0041 J	< 0.00050	0.0036 J	< 0.00050	< 0.00060	< 0.00050	0.0063 J
	MW-60	Nov-14		< 0.00037	< 0.0010	< 0.00036	0.00092 J	< 0.00034	0.0023	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-61	Apr-12		< 0.0050	0.17	0.0070	0.094	< 0.050	0.0072	< 0.0050	< 0.0050	0.11	0.48
	MW-61	Oct-12		< 0.025	0.094	< 0.025	0.065	< 0.025	< 0.025	< 0.025	< 0.025	0.14	0.44
	MW-61	Apr-13		< 0.025	0.14	< 0.025	0.075	< 0.025	< 0.025	< 0.025	< 0.025	0.095	0.43
	MW-61	Oct-13		< 0.025	0.12	< 0.025	0.074	< 0.025	< 0.025	< 0.025	< 0.025	0.096	0.41
	MW-61	Apr-14		< 0.0030	0.14	0.0059 J	0.083	0.0041 J	0.0067 J	< 0.0025	< 0.0030	0.093	0.42
	MW-61	Nov-14		< 0.018	0.14 J	< 0.018	0.16	< 0.017	< 0.018	< 0.015	< 0.019	< 0.039	1.2
	MW-62	Apr-12		0.021	0.012	0.0078	0.089	< 0.0050	0.0097	< 0.0050	< 0.0050	< 0.0050	0.20
	MW-62	Oct-12		0.032	0.018	0.0092	0.097	< 0.0050	0.012	< 0.0050	< 0.0050	< 0.0050	0.26
	MW-62	Apr-13		0.047	0.016	0.0095	0.13	< 0.0050	0.015	< 0.0050	< 0.0050	< 0.0050	0.17
	MW-62	Oct-13		< 0.0050	0.16	0.015	0.13	< 0.050	0.0092	< 0.0050	< 0.0050	0.0079	1.9
	MW-62	Apr-14		0.0022 J	0.11	0.013	0.11	< 0.0050	0.011	< 0.00050	< 0.00060	0.0056	0.72
	MW-62	Nov-14		0.025 J	0.42 J4	< 0.018	0.21	< 0.017	< 0.018	< 0.015	< 0.019	< 0.039	0.08 J
	MW-67	Oct-13		0.51	0.0088	0.011	0.046	< 0.0050	0.014	< 0.0050	< 0.0050	< 0.0050	0.032
	MW-67	Nov-14		0.46	0.0053 J	0.0029 J	0.019	< 0.0017	0.0078	< 0.0015	< 0.0019	< 0.0039	0.0084 J
	MW-90	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-90	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-90	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-90	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0060	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-90	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-90	Apr-14		< 0.00060	0.0025 J	< 0.0010	0.0026 J	< 0.00050	0.0054	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-90	Nov-14		< 0.00037	0.0049 JJ4	< 0.00036	0.0038	0.00037 J	0.0027	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-91	Oct-13	FD	< 0.0050	0.059	0.015	0.14	< 0.050	0.018	< 0.0050	< 0.0050	0.023	0.50
	MW-91	Oct-13		< 0.0050	0.055	0.015	0.14	< 0.050	0.018	< 0.0050	< 0.0050	0.023	0.47
	MW-91	Apr-14		< 0.0030	0.062	0.014 J	0.11	0.036	0.015 J	< 0.0025	< 0.0030	0.41	0.58
	MW-91	Nov-14		< 0.092	< 0.25	< 0.09	0.11 J	< 0.085	< 0.091	< 0.077	< 0.093	0.92 J	0.54 J
	MW-93	Apr-12		< 0.0050	0.13	0.0079	0.073	< 0.050	0.0067	< 0.0050	< 0.0050	0.043	0.55
	MW-93	Oct-12		< 0.0050	0.15	0.0085	0.068	< 0.050	0.0063	< 0.0050	< 0.0050	0.037	0.51
	MW-93	Apr-13		< 0.0050	0.14	0.011	0.10	< 0.12	0.0077	< 0.0050	< 0.0050	0.031	0.60
	MW-93	Oct-13		< 0.0050	0.14	0.015	0.10	< 0.050	0.011	< 0.0050	< 0.0050	0.031	0.56
	MW-93	Apr-14		0.0059 J	0.12	0.024 J	0.11	0.015 J	0.015 J	< 0.0025	< 0.0030	0.019 J	0.61
	MW-93	Nov-14		< 0.018	0.17 JJ4	< 0.018	0.074	< 0.017	< 0.018	< 0.015	< 0.019	< 0.039	0.45
	MW-94	Nov-14		1.3	0.22	0.04	0.13	0.4	0.04	< 0.0061	< 0.0074	0.7	0.71
	MW-95	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-95	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-95	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	0.0026 J	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-96	Apr-12		38	< 0.0050	< 0.0050	0.054	< 0.0050	0.0084	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-96	Oct-12		37	< 0.050	< 0.050	0.065	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.15
	MW-96	Apr-13		28	< 0.050	< 0.050	0.064	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.15
	MW-96	Oct-13		29	< 0.050	< 0.050	0.066	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.15
	MW-96	Apr-14		35	0.065 J	< 0.025	0.070 J	< 0.012	< 0.015	< 0.012	< 0.015	0.015 J	< 0.038

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				CGWSL Source:	WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
N Refinery					28 E	< 0.025	< 0.0090	0.044	< 0.0085	< 0.0091	< 0.0077	< 0.0093	< 0.02	< 0.026
	MW-96	Nov-14												
	MW-98	Apr-12			< 0.025	0.21	< 0.025	0.097	0.041	< 0.025	< 0.025	< 0.025	0.27	1.7
	MW-98	Oct-12			< 0.050	0.17	< 0.050	0.11	< 0.050	< 0.050	< 0.050	< 0.050	0.33	2.0
	MW-98	Apr-13			< 0.050	0.24	< 0.050	0.11	< 0.050	< 0.050	< 0.050	< 0.050	0.29	1.9
	MW-98	Oct-13			< 0.050	0.22	< 0.050	0.11	< 0.050	< 0.050	< 0.050	< 0.050	0.32	1.9
	MW-98	Apr-14	FD		< 0.0060	0.21	< 0.010	0.11	0.033 J	< 0.0060	< 0.0050	< 0.0060	0.32	2.0
	MW-98	Apr-14			< 0.0060	0.23	0.020 J	0.11	0.031 J	< 0.0060	< 0.0050	< 0.0060	0.30	1.9
	MW-98	Nov-14			< 0.092	0.45 JJ4	< 0.09	0.097 J	< 0.085	< 0.091	< 0.077	< 0.093	0.28 J	1.6
	RW-9	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RW-9	Apr-13			< 0.0050	< 0.0050	0.0090	0.086	< 0.0050	0.020	< 0.0050	< 0.0050	< 0.0050	0.015
	RW-9	Apr-14			0.0034 J	0.0075	0.0099	0.035	< 0.00050	0.024	< 0.00050	< 0.00060	0.0019 J	0.024
	RW-10	Apr-12			< 0.0050	< 0.0050	0.010	0.10	< 0.0050	0.022	< 0.0050	< 0.0050	< 0.0050	0.047
	RW-10	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RW-10	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	RW-16	Apr-13			0.0051	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RW-16	Apr-14	FD		0.012	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	RW-16	Apr-14			0.013	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	RW-16A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RW-17	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RW-17	Apr-14			0.0031 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	RW-17A	Apr-12			0.016	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
N RO Reject Field	MW-117	Feb-13										< 0.00040	< 0.00030	< 0.00030
	MW-117	May-13										< 0.00040	< 0.00030	< 0.00030
	MW-117	Sep-13										< 0.00030	< 0.00020	< 0.00050
	MW-117	Nov-13										< 0.00030	< 0.00020	< 0.00050
	MW-117	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-117	Nov-14	FD		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-117	Nov-14			< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-118	Feb-13										< 0.00040	0.0033	0.0047
	MW-118	May-13										< 0.00040	< 0.00030	< 0.00030
	MW-118	Sep-13										< 0.00030	< 0.00020	< 0.00050
	MW-118	Nov-13										< 0.00030	< 0.00020	< 0.00050
	MW-118	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-118	Nov-14			< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-119	Feb-13										< 0.00040	0.0027	0.0037
	MW-119	May-13										< 0.00040	< 0.00030	< 0.00030
	MW-119	Sep-13										< 0.00030	< 0.00020	< 0.00050
	MW-119	Nov-13										< 0.00030	< 0.00020	< 0.00050
	MW-119	Apr-14	FD		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-119	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-119	Nov-14			< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				CGWSL Source:	WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
NCL	MW-18	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-18	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-18	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-18	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-18	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-18	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-45	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-45	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-45	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-45	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-45	Apr-14			0.0043 J	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-45	Nov-14			0.0048	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-53	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-53	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-53	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-54A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-54A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-54A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-54A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-54A	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-54A	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	0.00079 J	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-54B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-55	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-55	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-55	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-55	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-55	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-55	Apr-14	FD		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-55	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-55	Nov-14			0.00049 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-56	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-56	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-56	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-56	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-56	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-56	Apr-14			0.0057	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-56	Nov-14			0.0040	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:									
				Units:									
				CGWSL Source:									
				Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
NCL	MW-108	Apr-12		< 0.0050	0.0078	< 0.0050	0.019	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0057	0.041
	MW-108	Oct-12		< 0.0050	0.0068	< 0.0050	0.020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.045
	MW-108	Apr-13		< 0.0050	< 0.0050	< 0.0050	0.027	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.050
	MW-108	Oct-13		< 0.0050	0.011	< 0.0050	0.021	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0070	0.051
	MW-108	Apr-14		< 0.00060	0.0092	0.0029 J	0.021	0.0028 J	0.0039 J	< 0.00050	< 0.00060	0.0065	0.054
	MW-108	Nov-14		< 0.0018	0.012 J	0.0027 J	0.025	0.0031 J	0.0051	< 0.0015	< 0.0019	0.0078 J	0.059
	NCL-31	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-31	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-31	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-31	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-31	Apr-14		0.00060 J	0.0021 J	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	NCL-32	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	NCL-33	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-33	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-33	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-33	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-33	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	NCL-33	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	NCL-34A	Oct-13		< 0.0050	0.069	0.019	0.13	< 0.0050	0.023	< 0.0050	< 0.0050	< 0.0050	0.20
	NCL-34A	Nov-14		< 0.0018	< 0.0050	0.0066	0.091	< 0.0017	0.017	< 0.0015	< 0.0019	< 0.0039	0.1
	NCL-44	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-44	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-44	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-44	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-44	Apr-14		< 0.00060	0.0026 J	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	NCL-44	Nov-14		0.00058 J	< 0.0010	< 0.00036	< 0.00035	< 0.00034	0.00048 J	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	NCL-49	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-49	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-49	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-49	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-49	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NCL-49	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	NCL-49	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	NCL-49	Nov-14	FD	< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
S Refinery	KWB-2R	Nov-14		0.034	0.51	0.01 J	0.16	0.031	0.012 J	< 0.0077	< 0.0093	0.035 J	0.74
	KWB-4	Oct-13		10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.15
	KWB-5	Nov-14		9.9 E	0.023 J	< 0.0036	0.011	< 0.0034	< 0.0036	< 0.0031	< 0.0037	< 0.0078	< 0.011
	KWB-6	Nov-14		0.16	0.098	< 0.0036	0.058	0.2	0.0056 J	< 0.0031	< 0.0037	0.53	1.1
	MW-28	Apr-12		2.7	0.014	0.0080	0.086	0.0053	0.012	< 0.0050	< 0.0050	0.012	0.093
	MW-28	Oct-12		4.0	0.016	< 0.0050	0.022	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0080	0.022
	MW-28	Apr-13		3.9	< 0.0050	< 0.0050	0.019	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-28	Oct-13		3.9	< 0.0050	< 0.0050	0.023	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-28	Apr-14		3.6	0.0042 J	0.0013 J	0.020	0.00053 J	0.0025 J	< 0.00050	< 0.00060	0.0053	0.0086 J
	MW-28	Nov-14		2	0.06 J	< 0.0090	0.081	< 0.0085	0.011 J	< 0.0077	< 0.0093	0.054 J	0.22
	MW-48	Nov-14		1.1	0.028 J	< 0.0090	0.068	0.01 J	0.0094 J	< 0.0077	< 0.0093	0.03 J	0.13

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:									
				Units:									
				CGWSL:									
				CGWSL Source:									
				Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
S Refinery	MW-50	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-50	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-50	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-50	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-50	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-50	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	0.0011	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-52	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-52	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-52	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-52	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-52	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-52	Nov-14		< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-65	Nov-14		4.7 3.4	0.22 J	< 0.018	0.083	0.025 J	< 0.018	< 0.015	< 0.019	< 0.039	0.21
	MW-66	Apr-12		2.9	0.041	0.0068	0.052	< 0.0050	0.0076	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-66	Oct-12		2.8	0.053	0.0083	0.078	< 0.0050	0.0086	< 0.0050	< 0.0050	0.0085	0.024
	MW-66	Apr-13		2.9	0.081	0.014	0.088	< 0.0050	0.013	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-66	Oct-13	FD	2.5	0.11	0.016	0.11	< 0.0050	0.014	< 0.0050	< 0.0050	0.0094	0.026
	MW-66	Oct-13		2.4	0.11	0.017 J	0.11 J	< 0.0050	0.015	< 0.0050	< 0.0050 J	0.0092	0.025
	MW-66	Apr-14		2.3	0.055	0.0069	0.038	0.0014 J	0.0071	< 0.00050	< 0.00060	0.0027 J	0.0069 J
	MW-66	Nov-14		1.9	0.22 J4	0.01 J	0.12	0.015	0.012	< 0.0031	< 0.0037	0.052	0.12
	MW-99	Nov-14		3.4 E	0.044 J	0.0065 J	0.052	0.15	0.0081 J	< 0.0031	< 0.0037	0.58	0.84
	MW-101	Apr-12		0.070	< 0.0050	< 0.0050	0.016	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.017	0.038
	MW-101	Oct-12		0.089	< 0.0050	< 0.0050	0.016	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.019
	MW-101	Apr-13		0.093	< 0.0050	< 0.0050	0.017	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0081	0.025
	MW-101	Oct-13		0.086	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-101	Apr-14		< 0.00060	0.0029 J	< 0.0010	0.0032 J	< 0.00050	< 0.00060	< 0.00050	< 0.00060	0.0038 J	0.011 J
	MW-101	Nov-14		0.12	0.01 J44	< 0.0036	0.0050 J	< 0.0034	< 0.0036	< 0.0031	< 0.0037	< 0.0078	< 0.011
	MW-102	Nov-14		2	0.18 J	< 0.018	0.057	0.54	< 0.018	< 0.015	< 0.019	2	1.8
	MW-103	Apr-12		< 0.0050	0.014	< 0.0050	0.024	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-103	Apr-13		< 0.0050	0.013	< 0.0050	0.024	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0060	< 0.015
	MW-103	Apr-14		< 0.00060	0.051	0.0061	0.046	0.0045 J	0.0058	< 0.00050	< 0.00060	0.0094	0.017
	MW-104	Apr-12		< 0.0050	< 0.0050	< 0.0050	0.011	< 0.0050	0.047	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-104	Oct-12		< 0.0050	< 0.0050	< 0.0050	0.0072	< 0.0050	0.034	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-104	Apr-13		< 0.0050	< 0.0050	0.0051	< 0.0050	< 0.0050	0.048	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-104	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.037	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-104	Apr-14	FD	< 0.00060	0.0027 J	< 0.0010	0.0043 J	< 0.00050	0.047	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-104	Apr-14		< 0.00060	0.0030 J	< 0.0010	0.0046 J	< 0.00050	0.047	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-104	Nov-14	FD	< 0.0037	< 0.01	< 0.0036	0.0097 J	< 0.0034	0.042	< 0.0031	< 0.0037	< 0.0078	< 0.011
	MW-104	Nov-14		0.00049 J	0.0018 J44	0.00050 J	0.0074	< 0.00034	0.033	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-105	Nov-14		< 0.092	< 0.25	< 0.09	< 0.087	< 0.085	< 0.091	< 0.077	< 0.093	< 0.2	< 0.26
	MW-106	Apr-12		0.040	0.048	< 0.025	0.061	< 0.025	< 0.025	< 0.025	< 0.025	0.080	0.24
	MW-106	Oct-12		< 0.025	< 0.025	< 0.025	0.044	< 0.025	< 0.025	< 0.025	< 0.025	0.039	0.12
	MW-106	Apr-13		0.062	0.087	< 0.050	0.092	< 0.050	< 0.050	< 0.050	< 0.050	0.17	0.44

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Location Name	Location	Date	Dup	Analyte:									
				Units:									
				CGWSL:									
				CGWSL Source:									
				Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
S Refinery	MW-106	Oct-13		0.074	0.058	< 0.050	0.053	< 0.050	< 0.050	< 0.050	< 0.050	0.34	0.37
	MW-106	Apr-14		0.047 J	0.083 J	< 0.020	0.047 J	0.024 J	< 0.012	< 0.010	< 0.012	0.35	0.31
	MW-107	Apr-12	FD	1.8	0.11	< 0.025	0.027	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.24
	MW-107	Apr-12		1.9	0.11	< 0.025	0.028	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.25
	MW-107	Oct-12		1.9	0.096	0.0073	0.047	< 0.0050	0.0050	< 0.0050	< 0.0050	0.024	0.22
	MW-107	Apr-13		2.3	0.12	< 0.025	0.041	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.18
	MW-107	Oct-13		1.9	0.10	< 0.025	0.039	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.12
	MW-107	Apr-14		1.6 J	0.11	< 0.010	0.031 J	< 0.0050	< 0.0060	< 0.0050	< 0.0060	0.017 J	0.12 J
	MW-107	Nov-14		2.3 E	0.15 J4	< 0.0036	0.057	0.0035 J	0.0057 J	< 0.0031	< 0.0037	0.02 J	0.12
	MW-109	Apr-12		< 0.0050	0.0076	< 0.0050	0.011	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0069	0.017
	MW-109	Oct-12		< 0.0050	< 0.0050	< 0.0050	0.0078	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-109	Apr-13		< 0.0050	< 0.0050	< 0.0050	0.0096	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-109	Oct-13		< 0.0050	< 0.0050	< 0.0050	0.0090	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-109	Apr-14		< 0.00060	0.0036 J	0.0020 J	0.010	< 0.00050	0.0032 J	< 0.00050	< 0.00060	0.0045 J	0.0059 J
	MW-109	Nov-14		< 0.00037 J3	0.0026 J34J5J3	0.0013 J5J3	0.021	0.00036 J15J3	0.0033 J3	< 0.00031 J5J3	< 0.00037 J3	0.0057 J3	0.0031 J3J5
	MW-110	Apr-12		< 0.0050	0.0082	< 0.0050	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.017
	MW-110	Oct-12		< 0.0050	< 0.0050	< 0.0050	0.0091	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-110	Apr-13		< 0.0050	0.0053	< 0.0050	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-110	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-110	Apr-14		< 0.00060	0.013	0.0021 J	0.020	< 0.00050	0.0037 J	< 0.00050	< 0.00060	0.0023 J	0.028
	MW-110	Nov-14		< 0.00037	0.0017 J4	< 0.00036	0.0015	< 0.00034	0.0015	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-130	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-130	Nov-14		0.0012	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	RA-313	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-313	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	RA-313	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
S RO Reject Field	MW-114	Feb-13									< 0.00040	< 0.00030	< 0.00030
	MW-114	May-13									< 0.00040	< 0.00030	< 0.00030
	MW-114	Sep-13									< 0.00030	< 0.00020	< 0.00050
	MW-114	Nov-13									< 0.00030	< 0.00020	< 0.00050
	MW-114	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-114	Nov-14		< 0.00037	0.0012 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-115	Feb-13									< 0.00040	< 0.00030	< 0.00030
	MW-115	May-13	FD								< 0.00040	< 0.00030	< 0.00030
	MW-115	May-13									< 0.00040	< 0.00030	< 0.00030
	MW-115	Sep-13									< 0.00030	< 0.00020	< 0.00050
	MW-115	Nov-13									< 0.00030	< 0.00020	< 0.00050
	MW-115	Apr-14		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-115	Nov-14		< 0.00037	< 0.0010 J4	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-116	Feb-13									< 0.00040	< 0.00030	< 0.00030
	MW-116	May-13									< 0.00040	< 0.00030	< 0.00030
	MW-116	Sep-13	FD								< 0.00030	< 0.00020	< 0.00050
	MW-116	Sep-13									< 0.00030	< 0.00020	< 0.00050
	MW-116	Nov-13	FD								< 0.00030	< 0.00020	< 0.00050
	MW-116	Nov-13									< 0.00030	< 0.00020	< 0.00050

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[illegible]

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				CGWSL Source:	WQCC TW	WQCC HH			WQCC TW	---	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
Location Name	Location	Date	Dup											
TMD	MW-16	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-20	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-20	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-20	Apr-14	FD		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-20	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-21	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-21	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-21	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-21	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-21	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-21	Apr-14			0.0051	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-21	Nov-14			0.0060	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-25	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-25	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-25	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-26	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-26	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-26	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-27	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-27	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-27	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-46R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-46R	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-46R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-46R	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-46R	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-46R	Nov-14			< 0.00037	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011
	MW-68	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-68	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-68	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	MW-71	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-71	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-71	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-71	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-71	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	MW-71	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
MW-89	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-89	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
MW-89	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015	
NP-1	Apr-12			0.14	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
NP-1	Sep-12			0.12	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
NP-1	Apr-13			0.14	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
NP-1	Oct-13			0.060	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	
NP-1	Apr-14			0.0056	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015	
NP-1	Nov-14			0.084	< 0.0010	< 0.00036	< 0.00035	< 0.00034	< 0.00036	< 0.00031	< 0.00037	< 0.00078	< 0.0011	

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				Analyte:	Methyl-tert-butylether	Naphthalene	N-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene (Monomer)	Tetrachloroethene	Toluene	Total Xylenes
				Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.143	0.03	---	---	0.193	---	0.1	0.005	0.75	0.62
				CGWSL Source:	WQCC TW	WQCC HH			WQCC TW		USEPA MCL	USEPA MCL	WQCC HH	WQCC HH
Location Name	Location	Date	Dup											
TMD	NP-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NP-6	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	NP-6	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
Upgradient	UG-1	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	UG-1	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	UG-1	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	UG-2	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	UG-2	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	UG-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	UG-2	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	UG-3R	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	UG-3R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	UG-3R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015
	UG-3R	Apr-14	FD		< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015
	UG-3R	Apr-14			< 0.00060	< 0.00070	< 0.0010	< 0.00050	< 0.00050	< 0.00060	< 0.00050	< 0.00060	< 0.00050	< 0.0015

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				Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
Location Name	Location	Date	Dup					
Crossgradient	KWB-13	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-13	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-13	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	NP-5	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NP-5	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NP-5	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-3156	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-3156	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-3156	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-3156	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
EP	RA-3156	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-1R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-1R	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-1R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-1R	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-2A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-2A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-2A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-2A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-2A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-2A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-3	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-3	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-3	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-3	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-3	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-3	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-3	Nov-14	FD		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-4A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-4A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-4A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-4A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-4A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-4A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-4B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-5A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-5A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-5A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-5A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-5A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-5A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-5B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-5C	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-6A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
MW-6A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020	

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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
EP	MW-6A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-6B	Mar-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-6B	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-7A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-7A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-7A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-7A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-7A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-7A	Nov-14	FD		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-7A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-7B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-10	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-10	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-10	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-10	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-10	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-10	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-11A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-11A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-11A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-11B	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-120	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-120	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-120	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-121	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-121	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-121	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-122	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-122	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-122	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-123	Nov-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-123	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-123	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-123	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-124	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-124	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-124	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-15	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-15	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-15	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-15	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-18A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-18A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-18A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-18A	Nov-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
EP	MW-18A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-18A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-18A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-18B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-22A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-22A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-22A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-22A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-22A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-22A	Nov-14	FD		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-22A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-22B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-70	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-70	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-70	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-70	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-70	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-70	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-72	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-72	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-72	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-72	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-72	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-73	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-73	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-73	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-73	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-73	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-74	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-74	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-74	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-74	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-74	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-74	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-75	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-75	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-75	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-75	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-75	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-75	Nov-14			< 0.0020	< 0.0021	< 0.0020	< 0.0013
	MW-76	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-76	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-76	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-76	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-76	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
EP	MW-76	Nov-14			< 0.0020	< 0.0021	< 0.0020	< 0.0013
	MW-77	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-77	Sep-12			< 0.025	< 0.025	< 0.025	< 0.010
	MW-77	Mar-13			< 0.025	< 0.025	< 0.025	< 0.010
	MW-77	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-77	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-77	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-77	Nov-14			< 0.0020	< 0.0021	< 0.0020	< 0.0013
	MW-78	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-78	Mar-13			< 0.025	< 0.025	< 0.025	< 0.010
	MW-78	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-79	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-79	Sep-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-79	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-79	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-79	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-79	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-79	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-80	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-80	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-80	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-81	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-81	Mar-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-81	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-81	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-82	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-82	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-82	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-82	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-83	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-83	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-83	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-83	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-83	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-83	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-84	Mar-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-84	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-84	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-84	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-84	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-84	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-84	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-87	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-87	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-87	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
EP	MW-87	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-87	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-87	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-88	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-88	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-88	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-88	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-88	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-88	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	OCD-1R	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-1R	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-1R	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-1R	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-1R	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	OCD-2A	Mar-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-2A	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-2A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-2A	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-2A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-2A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-2A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	OCD-3	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-3	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-3	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-3	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-3	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-3	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	OCD-4	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-4	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-4	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-4	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-4	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-4	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	OCD-5	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-5	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-5	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-5	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-5	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-5	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-5	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	OCD-6	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-6	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-6	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-6	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-6	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
EP	OCD-6	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	OCD-7AR	Mar-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-7AR	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-7AR	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-7AR	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-7AR	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-7AR	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-7AR	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	OCD-7B	Mar-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-8A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-8A	Sep-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-8A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-8A	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-8A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-8A	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	OCD-8A	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-8A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	OCD-8A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	OCD-8B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
Field E of Refinery	KWB-1A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-1A	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-1A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-1A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-1A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	KWB-1A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	KWB-1C	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-7	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-7	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-7	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-7	Nov-14			< 0.0040	< 0.0042	< 0.0040	< 0.0026
	KWB-10R	Nov-14			< 0.0099	< 0.01	< 0.01	< 0.0065
	KWB-11A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-11A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-11A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-11A	Nov-14	FD		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	KWB-11A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	KWB-11B	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-11B	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-11B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-11B	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	KWB-11B	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	KWB-12A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-12A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-12A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	KWB-12A	Nov-14	FD		< 0.00040	< 0.00042	< 0.00040	< 0.00026

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
Field E of Refinery	KWB-12B	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-12B	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-12B	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-12B	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-12B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-12B	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	KWB-12B	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	KWB-12B	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	KWB-12B	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	KWB-P4	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-57	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-57	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-57	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-57	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-57	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-57	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-58	Oct-13			< 0.050	< 0.050	< 0.050	< 0.020
	MW-58	Nov-14			< 0.0099	< 0.01	< 0.01	< 0.0065
	MW-111	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-111	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-111	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-111	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-112	Nov-14			< 0.0099	< 0.01	< 0.01	< 0.0065
	MW-113	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-113	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-113	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-113	Nov-14	FD		< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-113	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-125	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-125	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-126A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-126A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-126B	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-126B	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-127	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-127	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-128	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-128	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-129	Nov-14			< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-131	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-131	Nov-14			< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-133	Nov-14			< 0.04	< 0.042	< 0.04	< 0.026
	MW-134	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-134	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-135	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040

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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
Field E of Refinery	MW-135	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	RA-4196	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4196	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4196	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4196	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4196	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4196	Nov-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4196	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4196	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	RA-4798	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4798	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4798	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4798	Nov-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-4798	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	RA-4798	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	RA-4798	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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				Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
Location Name	Location	Date	Dup					
Field E of Refinery	RW-18	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-18	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-18	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-18	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
N Refinery	MW-23	Apr-12			< 0.025	< 0.025	< 0.025	< 0.010
	MW-23	Oct-12			< 0.025	< 0.025	< 0.025	< 0.010
	MW-23	Apr-13			< 0.050	< 0.050	< 0.050	< 0.020
	MW-23	Oct-13			< 0.050	< 0.050	< 0.050	< 0.020
	MW-23	Apr-14			< 0.0080	< 0.012	< 0.010	< 0.0080
	MW-23	Nov-14			< 0.02	< 0.021	< 0.02	< 0.013
	MW-29	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-29	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-29	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-29	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-29	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-29	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-39	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-40	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-40	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-40	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-41	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-41	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-41	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-41	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-41	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-42	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-42	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-42	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-42	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-42	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-43	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-43	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-43	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-43	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-43	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-43	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-43	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-43	Nov-14			< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-59	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-59	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-59	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-60	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-60	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-60	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-60	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
N Refinery	MW-60	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-60	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-60	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-60	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-60	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-61	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-61	Oct-12			< 0.025	< 0.025	< 0.025	< 0.010
	MW-61	Apr-13			< 0.025	< 0.025	< 0.025	< 0.010
	MW-61	Oct-13			< 0.025	< 0.025	< 0.025	< 0.010
	MW-61	Apr-14			< 0.0020	< 0.0030	< 0.0025	< 0.0020
	MW-61	Nov-14			< 0.02	< 0.021	< 0.02	< 0.013
	MW-62	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-62	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-62	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-62	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-62	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-62	Nov-14			< 0.02	< 0.021	< 0.02	< 0.013
	MW-67	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-67	Nov-14			< 0.0020	< 0.0021	< 0.0020	< 0.0013
	MW-90	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-90	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-90	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-90	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-90	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-90	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-90	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-91	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-91	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-91	Apr-14			< 0.0020	< 0.0030	< 0.0025	< 0.0020
	MW-91	Nov-14			< 0.099	< 0.1	< 0.1	< 0.065
	MW-93	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-93	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-93	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-93	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-93	Apr-14			< 0.0020	< 0.0030	< 0.0025	< 0.0020
	MW-93	Nov-14			< 0.02	< 0.021	< 0.02	< 0.013
	MW-94	Nov-14			< 0.0079	< 0.0084	< 0.0080	< 0.0052
	MW-95	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-95	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-95	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-96	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-96	Oct-12			< 0.050	< 0.050	< 0.050	< 0.020
	MW-96	Apr-13			< 0.050	< 0.050	< 0.050	< 0.020
	MW-96	Oct-13			< 0.050	< 0.050	< 0.050	< 0.020
	MW-96	Apr-14			< 0.010	< 0.015	< 0.012	< 0.010

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
N Refinery	MW-96	Nov-14			< 0.0099	< 0.01	< 0.01	< 0.0065
	MW-98	Apr-12			< 0.025	< 0.025	< 0.025	< 0.010
	MW-98	Oct-12			< 0.050	< 0.050	< 0.050	< 0.020
	MW-98	Apr-13			< 0.050	< 0.050	< 0.050	< 0.020
	MW-98	Oct-13			< 0.050	< 0.050	< 0.050	< 0.020
	MW-98	Apr-14	FD		< 0.0040	< 0.0060	< 0.0050	< 0.0040
	MW-98	Apr-14			< 0.0040	< 0.0060	< 0.0050	< 0.0040
	MW-98	Nov-14			< 0.099	< 0.1	< 0.1	< 0.065
	RW-9	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-9	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-9	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	RW-10	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-10	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-10	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	RW-16	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-16	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	RW-16	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	RW-16A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-17	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RW-17	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	RW-17A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
N RO Reject Field	MW-117	Feb-13					< 0.00020	< 0.00040
	MW-117	May-13					< 0.00020	< 0.00040
	MW-117	Sep-13					< 0.00020	< 0.00020
	MW-117	Nov-13					< 0.00020	< 0.00020
	MW-117	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-117	Nov-14	FD		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-117	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-118	Feb-13					< 0.00020	< 0.00040
	MW-118	May-13					< 0.00020	< 0.00040
	MW-118	Sep-13					< 0.00020	< 0.00020
	MW-118	Nov-13					< 0.00020	< 0.00020
	MW-118	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-118	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-119	Feb-13					< 0.00020	< 0.00040
	MW-119	May-13					< 0.00020	< 0.00040
	MW-119	Sep-13					< 0.00020	< 0.00020
	MW-119	Nov-13					< 0.00020	< 0.00020
	MW-119	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-119	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-119	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026

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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
NCL	MW-18	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-18	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-18	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-18	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-18	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-18	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-45	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-45	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-45	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-45	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-45	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-45	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-53	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-53	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-53	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-54A	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-54A	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-54A	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-54A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-54A	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-54A	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-54B	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-55	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-55	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-55	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-55	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-55	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-55	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-55	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-55	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-56	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-56	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-56	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-56	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-56	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-56	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-56	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
NCL	MW-108	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-108	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-108	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-108	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-108	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-108	Nov-14			< 0.0020	< 0.0021	< 0.0020	< 0.0013
	NCL-31	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-31	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-31	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-31	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-31	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	NCL-32	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	NCL-33	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-33	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-33	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-33	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-33	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	NCL-33	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	NCL-34A	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-34A	Nov-14			< 0.0020	< 0.0021	< 0.0020	< 0.0013
	NCL-44	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-44	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-44	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-44	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-44	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	NCL-44	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	NCL-49	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-49	Oct-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-49	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-49	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-49	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NCL-49	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	NCL-49	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	NCL-49	Nov-14	FD		< 0.00040	< 0.00042	< 0.00040	< 0.00026
S Refinery	KWB-2R	Nov-14			< 0.0099	< 0.01	< 0.01	< 0.0065
	KWB-4	Oct-13			< 0.050	< 0.050	< 0.050	< 0.020
	KWB-5	Nov-14			< 0.0040	< 0.0042	< 0.0040	< 0.0026
	KWB-6	Nov-14			< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-28	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-28	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-28	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-28	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-28	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-28	Nov-14			< 0.0099	< 0.01	< 0.01	< 0.0065
	MW-48	Nov-14			< 0.0099	< 0.01	< 0.01	< 0.0065

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:			
				Units:			
				CGWSL:			
				CGWSL Source:			
				trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				mg/l	mg/l	mg/l	mg/l
				0.1	0.0047	0.005	0.001
				USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
S Refinery	MW-50	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-50	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-50	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-50	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-50	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-50	Nov-14		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-52	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-52	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-52	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-52	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-52	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-52	Apr-14	FD	< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-52	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-52	Nov-14		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-65	Nov-14		< 0.02	< 0.021	< 0.02	< 0.013
	MW-66	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-66	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-66	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-66	Oct-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-66	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-66	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-66	Nov-14		< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-99	Nov-14		< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-101	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-101	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-101	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-101	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-101	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-101	Nov-14		< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-102	Nov-14		< 0.02	< 0.021	< 0.02	< 0.013
	MW-103	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-103	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-103	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-104	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-104	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-104	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-104	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-104	Apr-14	FD	< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-104	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-104	Nov-14	FD	< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-104	Nov-14		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-105	Nov-14		< 0.099	< 0.1	< 0.1	< 0.065
	MW-106	Apr-12		< 0.025	< 0.025	< 0.025	< 0.010
	MW-106	Oct-12		< 0.025	< 0.025	< 0.025	< 0.010
	MW-106	Apr-13		< 0.050	< 0.050	< 0.050	< 0.020

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
S Refinery	MW-106	Oct-13			< 0.050	< 0.050	< 0.050	< 0.020
	MW-106	Apr-14			< 0.0080	< 0.012	< 0.010	< 0.0080
	MW-107	Apr-12	FD		< 0.025	< 0.025	< 0.025	< 0.010
	MW-107	Apr-12			< 0.025	< 0.025	< 0.025	< 0.010
	MW-107	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-107	Apr-13			< 0.025	< 0.025	< 0.025	< 0.010
	MW-107	Oct-13			< 0.025	< 0.025	< 0.025	< 0.010
	MW-107	Apr-14			< 0.0040	< 0.0060	< 0.0050	< 0.0040
	MW-107	Nov-14			< 0.0040	< 0.0042	< 0.0040	< 0.0026
	MW-109	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-109	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-109	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-109	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-109	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-109	Nov-14			< 0.00040	< 0.00042 J5J3	< 0.00040 J3	< 0.00026
	MW-110	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-110	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-110	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-110	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-110	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-110	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-130	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-130	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	RA-313	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-313	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	RA-313	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
S RO Reject Field	MW-114	Feb-13					< 0.00020	< 0.00040
	MW-114	May-13					< 0.00020	< 0.00040
	MW-114	Sep-13					< 0.00020	< 0.00020
	MW-114	Nov-13					< 0.00020	< 0.00020
	MW-114	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-114	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-115	Feb-13					< 0.00020	< 0.00040
	MW-115	May-13	FD				< 0.00020	< 0.00040
	MW-115	May-13					< 0.00020	< 0.00040
	MW-115	Sep-13					< 0.00020	< 0.00020
	MW-115	Nov-13					< 0.00020	< 0.00020
	MW-115	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-115	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-116	Feb-13					< 0.00020	< 0.00040
	MW-116	May-13					< 0.00020	< 0.00040
	MW-116	Sep-13	FD				< 0.00020	< 0.00020
	MW-116	Sep-13					< 0.00020	< 0.00020
	MW-116	Nov-13	FD				< 0.00020	< 0.00020
	MW-116	Nov-13					< 0.00020	< 0.00020

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:			
				Units:			
				CGWSL:			
				CGWSL Source:			
				trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				mg/l	mg/l	mg/l	mg/l
				0.1	0.0047	0.005	0.001
				USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
S RO Reject Field	MW-116	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-116	Nov-14		< 0.00040	< 0.00042	< 0.00040	< 0.00026
TEL	MW-49	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-49	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-49	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-49	Apr-13	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-49	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-49	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-49	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-49	Nov-14		< 0.00079	< 0.00084	< 0.00080	< 0.00052
	TEL-1	Apr-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-1	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-1	Oct-12	FD	< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-1	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-1	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-1	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-1	Apr-14	FD	< 0.00040	< 0.00060	< 0.00050	< 0.00040
	TEL-1	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	TEL-1	Nov-14		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	TEL-2	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-2	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-2	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-2	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-2	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	TEL-2	Nov-14		< 0.0040	< 0.0042	< 0.0040	< 0.0026
	TEL-3	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-3	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-3	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-3	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-3	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	TEL-3	Nov-14		< 0.00040	< 0.00042	< 0.00040	< 0.00026
	TEL-4	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-4	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-4	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-4	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	TEL-4	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	TEL-4	Nov-14	FD	< 0.0079	< 0.0084	< 0.0080	< 0.0052
	TEL-4	Nov-14		< 0.0079	< 0.0084	< 0.0080	< 0.0052
TMD	MW-8	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-8	Oct-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-8	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-8	Oct-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-8	Apr-14		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-16	Apr-12		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-16	Apr-13		< 0.0050	< 0.0050	< 0.0050	< 0.0020

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Navajo Refining, Artesia, New Mexico

Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
TMD	MW-16	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-20	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-20	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-20	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-20	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-21	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-21	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-21	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-21	Oct-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-21	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-21	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-21	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-25	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-25	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-25	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-26	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-26	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-26	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-27	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-27	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-27	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-46R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-46R	Oct-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-46R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-46R	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-46R	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-46R	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026
	MW-68	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-68	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-68	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-71	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-71	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-71	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-71	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-71	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-71	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	MW-89	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-89	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	MW-89	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	NP-1	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NP-1	Sep-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NP-1	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NP-1	Oct-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NP-1	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	NP-1	Nov-14			< 0.00040	< 0.00042	< 0.00040	< 0.00026

Table C.4 - Groundwater Analytical Results 2012-2014 - VOCs
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Location Name	Location	Date	Dup	Analyte:	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
				Units:	mg/l	mg/l	mg/l	mg/l
				CGWSL:	0.1	0.0047	0.005	0.001
				CGWSL Source:	USEPA MCL	USEPA TW	USEPA MCL	WQCC HH
TMD	NP-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NP-6	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	NP-6	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
Upgradient	UG-1	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	UG-1	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	UG-1	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	UG-2	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	UG-2	Apr-13	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	UG-2	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	UG-2	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040
	UG-3R	Apr-12	FD		< 0.0050	< 0.0050	< 0.0050	< 0.0020
	UG-3R	Apr-12			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	UG-3R	Apr-13			< 0.0050	< 0.0050	< 0.0050	< 0.0020
	UG-3R	Apr-14	FD		< 0.00040	< 0.00060	< 0.00050	< 0.00040
	UG-3R	Apr-14			< 0.00040	< 0.00060	< 0.00050	< 0.00040

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
Crossgradient	KWB-13	Apr-12		552	144	< 0.0200	0.842	14.9	0.802	222	1860	3630
	KWB-13	Apr-13		457	141	< 0.0200	0.701	14.1	1.31	176	1820	3910
	KWB-13	Apr-14		418	158	< 0.00500 H	0.58	14.6	0.724	143	1820	3750
	MW-17	Apr-14		395	174		1.19	2.19	2.31	72.2	1200	2340
	NP-5	Apr-12	FD	426	351		2.4	1.13	0.365	275	3240	5840
	NP-5	Apr-12		437	346		2.43	2.35	0.35	284	3170	5750
	NP-5	Apr-13		465	413		2.58	2.33	< 0.400	253	3090	5980
	RA-3156	Apr-12		469	245		< 0.500	5.22	2.63	165	1510	3070
	RA-3156	Oct-12			253		0.238	3.47			1620	3180
	RA-3156	Apr-13		516	245		< 0.500	6.62	3.03	162	1560	3050
	RA-3156	Nov-13		537	238		0.208	9.09	3.06	169	1450	3390
	RA-3156	Apr-14		< 0.500	278		0.299	7.89	2.67		1800	3280
	MW-1R	Apr-12		510	1610		0.8	< 1.00	4.23	837	1750	5560
	MW-1R	Apr-13	FD	592	1610		0.869	< 1.00	4.66	904	1920	5400
EP	MW-1R	Apr-13		633	1650		0.877	< 1.00	4.56	816	1980	5460
	MW-1R	Apr-14		540	1560		0.567	< 0.150	4.27	1010	1900	5740
	MW-2A	Mar-12		401	1160		4.30 J	< 0.500	3.49	1000	1670	5060
	MW-2A	Sep-12		295	2040		2.93	< 1.00	4.22	1650	2340	7320
	MW-2A	Mar-13		528	1410		5.18	2.87	4.68	785	1920	4970
	MW-2A	Nov-13		710	3780		3.4	< 0.500	8.18	3230	4030	13500
	MW-2A	Apr-14		794	5440		2.19	< 0.150	6.58	3440	4310	16200
	MW-2A	Nov-14			4900		2.3	1.3	5.8		3900	13000
	MW-3	Mar-12		439	966		2.18	< 0.500	6.13	707	1570	4310
	MW-3	Sep-12		466	1020		1.86	< 1.00	5.34	799	1740	4450
	MW-3	Mar-13		510	1030		2.59	< 1.00	6.23	721	2030	4610
	MW-3	Nov-13		696	2490		2.48	9.72	9.04	1390	2510	8000
	MW-3	Apr-14		827	2300		1.39	9.07	6.57	1300	1930	7400
	MW-3	Nov-14		760	2000		1.7	4.8	6.8	1200	2600	7200
	MW-3	Nov-14	FD	780	2600		2.2	5.2	7	1200	2700	7100
	MW-4A	Apr-12		344	1250		1.98	< 1.00	5.24	870	1440	4620
	MW-4A	Sep-12		413	1300		1.68	< 1.00	4.27	887	1550	4630
	MW-4A	Apr-13		423	1360		2.3	< 1.00	6.44	962	1680	6420
	MW-4A	Nov-13		605	1380		1.66	< 0.500	5.71	1030	2170	5790
	MW-4A	Apr-14		571			1.47	0.199 J	4.24	990		5600
	MW-4A	Nov-14		690	1400		1.6	0.96	5.1	1000	2500	5700
	MW-4B	Apr-13		371	928		0.87	< 1.00	3.64	556	1330	3660
	MW-5A	Apr-12		505	3370		3.24	< 1.00	8.43	3240	5430	14600
	MW-5A	Sep-12		511	3980		3.08	< 1.00	7.51	3350	6400	16900
	MW-5A	Apr-13		519	3470		3.76	< 1.00	9.05	3150	6080	14400
	MW-5A	Nov-13		561	4290		3.22	< 0.500	7.08	4320	5540	18000
	MW-5A	Apr-14		562	4710		3.03	< 0.150	6.58	4230	8160	18100
	MW-5A	Nov-14		580	3300		1.9	< 0.02	6.4	4200	8100	16000
	MW-5B	Apr-13		473	1840		2.2	2.93	10.8	1600	2950	7500
	MW-5C	Apr-13		420	639		1.2	< 1.00	4.21	446	1580	3620
	MW-6A	Mar-12		247	825		1.63	< 0.500	1.13	674	1320	3590

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
EP	MW-6A	Mar-13		301	980		2.05	< 1.00	1.36	735	1610	3950
	MW-6A	Apr-14		762	1620		1.31	0.245 J	2.44	998	1980	5600
	MW-6B	Mar-13	FD	478	1420		0.814	< 1.00	4.87	753	1690	4510
	MW-6B	Mar-13		530	1370		0.533	< 1.00	4.31	710	1640	4480
	MW-7A	Apr-12		371	1900		1.39	< 1.00	3.69	1450	2200	6870
	MW-7A	Sep-12		475	1970		1.3	< 1.00	4.29	1700	2520	7100
	MW-7A	Apr-13		351	2060		1.54	< 1.00	4.11	1420	2570	6760
	MW-7A	Nov-13		464	2930		1.25	< 0.500	5.71	2190	2190	8280
	MW-7A	Apr-14		469	2670		1.19	< 0.150	4.46	1750	3290	7760
	MW-7A	Nov-14	FD	770	1800		1.2	< 0.02	5.2	2500	2100	11000
	MW-7A	Nov-14		760	3600		0.69	< 0.02 J6	5.2	2600	4100	11000
	MW-7B	Apr-13		545	1030		3.09	< 1.00	6.66	540	1800	4280
	MW-10	Apr-12		433	1430		0.852	< 1.00	3.31	875	1880	5370
	MW-10	Sep-12			1410		< 1.00	< 1.00			1870	5240
	MW-10	Apr-13		502	1450		0.713	< 1.00	3.86	940	2070	5360
	MW-10	Nov-13		644	1560		0.743	< 0.500	4.46	1260	1940	5690
	MW-10	Apr-14		545	1660		0.551	< 0.150	4.06	1060	2290	5540
	MW-10	Nov-14		750 V	1700		0.88 J6	0.23	4.3	1200 V	2800	5900
	MW-11A	Apr-12		978	8840		0.942	< 1.00	22.1	4400	2660	18300
	MW-11A	Mar-13		1060	9220		0.821	< 1.00	22.9	4510	3110	20000
	MW-11A	Apr-14		1250	12400		0.647	0.488 J	22.9	5140	2410	25400
	MW-11A	Nov-14		2600	17000		< 0.0099	15	21	8300	3000	30000
	MW-11B	Mar-13		855	6560		< 0.500	< 1.00	35.2	3340	3030	15100
	MW-12	Apr-14		728	2460		0.685	4.1	5.57	1280	2490	7960
	MW-13	Apr-14		682	1780		0.354	0.463 J	5.56	914	2180	6520
	MW-15	Apr-12	FD	628	1450		4.36	11.2	7.37	900	1950	5750
	MW-15	Apr-12		635	1470		4.22	11.4	7.06	860	1980	5740
	MW-15	Mar-13		771	2640		2.13	13.3	6.02	1240	2180	8120
	MW-15	Apr-14		849	2960		2.33	40.2	5.68	1420	1770	19900
	MW-18A	Apr-12		600	6150	< 0.0200	2.62	< 1.00	41.2	3860	4920	18100
	MW-18A	Sep-12		712	6210	< 0.0200	2.29	< 1.00	44	4380	5050	18200
	MW-18A	Apr-13		672	6800	< 0.0200	3.4	< 1.00	41.5	4080	5810	18300
	MW-18A	Nov-13	FD	690	11600	< 0.0200	4.26	4.4	64.5	7210	7460	33300
	MW-18A	Nov-13		678	14600	< 0.0200	4.42	3.41	64.4	7080	8700	34100
	MW-18A	Apr-14		723	10200	< 0.00500	3.63	2.61	61.4	6620	6760	27700
	MW-18A	Nov-14		850	12000	< 0.0018	< 0.0099	< 0.02	54	7500	10000	32000
	MW-18B	Apr-13		592	803		1.1	< 1.00	6.32	474	1870	4060
	MW-22A	Apr-12		440	1830		0.533	< 1.00	3.37	1060	2050	6280
	MW-22A	Apr-13		564	1920		< 0.500	< 0.100	4.17	1150	2310	6380
	MW-22A	Nov-13		667					4.68	1870		
	MW-22A	Apr-14		514	2290		0.766	< 0.150	4.02	1290	2540	6640
	MW-22A	Nov-14	FD	720	1700		0.77	< 0.02	3.9 J	1700	2200	6600
	MW-22A	Nov-14		610	2000		0.58	< 0.02	3.9	1400	2600	6600
	MW-22B	Apr-13		530	1470		0.619	< 1.00	4.48	932	2240	5460
	MW-70	Apr-12		584	995		0.593	< 1.00	4.83	626	1900	4990

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
EP	MW-70	Apr-13		666	1110		0.704	< 1.00	5.1	634	2200	5360
	MW-70	Nov-13		660					6.61	746		
	MW-70	Apr-14		697	1310		0.56	0.210 J	5.38	729	2950	5080
	MW-70	Nov-14		700					5.5	730		
	MW-72	Mar-12		759	3410		5.72	< 0.500	7.13	2370	2450	10100
	MW-72	Sep-12		671	3760		7.11	< 1.00	9.7	2030	2560	10100
	MW-72	Mar-13		745	3580		7.02	< 1.00	8.14	2070	2760	9740
	MW-72	Nov-13		753	3540		6.26	< 0.500	9.43	2340	2200	9890
	MW-72	Apr-14		795	4350		6.27	3.1	9.87	2440	3020	10300
	MW-73	Mar-12		626	2120		1.92	< 0.500	1.99	2510	3350	9850
	MW-73	Sep-12		560	2270		2.08	2.66	2.62	2250	3420	9420
	MW-73	Mar-13		585	2160		2.65	< 1.00	2.64	2250	3770	8980
	MW-73	Oct-13		571	2110		2.19	< 0.500	2.73	2430	3140	9720
	MW-73	Apr-14		590	2260		2.09	< 0.150	2.54	2160	3510	9120
	MW-74	Mar-12		622	1960		8.43	1.12	31.3	1840	3190	9000
	MW-74	Sep-12		612	2110		10.2	4.37	41.8	1970	3300	8880
	MW-74	Mar-13		660	2130		10.3	< 1.00	34.2	1960	3660	8460
	MW-74	Oct-13		597	1760		8.51	109	52.8	2290	3680	9590
	MW-74	Apr-14		656	1970		8.66	67	45.6	2250	4050	8940
	MW-74	Nov-14		670	1600		6.4	420	45	2300	4400	8700
	MW-75	Mar-12		348	1500		7.67	< 0.500	18.2	1530	1880	6110
	MW-75	Sep-12		333	1600		8.25	< 1.00	22.7	1510	1980	5860
	MW-75	Mar-13		360	1600		9.9	< 1.00	21.1	1540	2120	6030
	MW-75	Oct-13		353	1500		8.52	< 0.500	18.9	1600	1950	6000
	MW-75	Apr-14		379	1610		8.37	< 0.150	21.4	1550	1930	6180
	MW-75	Nov-14		410	1400		6.9	< 0.02	20	1500	2400	5700
	MW-76	Mar-12		365	1260		3.07	< 0.500	22.4	959	1690	5220
	MW-76	Sep-12		383	1370		3.2	< 1.00	28.6	965	1750	4960
	MW-76	Mar-13		429	1350		4.48	< 1.00	27.8	1060	1980	5230
	MW-76	Oct-13		499	1300		4.38	< 0.500	29.9	1030	1960	5540
	MW-76	Apr-14		470	1200		3.16	< 0.150	30	980	1730	4980
	MW-76	Nov-14		610	1300		3	< 0.02	31	1100	2800	6000
	MW-77	Mar-12		387	1340	< 0.0200	3.04	1.7	29.3	1160	1890	5830
	MW-77	Sep-12		536	724	< 0.0200	1.13	< 1.00	85.8	1480	3660	7990
	MW-77	Mar-13		481	1060	< 0.0200	3.66	< 1.00	57.9	1330	3240	7230
	MW-77	Oct-13	FD	519	852	< 0.0200	5.22	< 0.500	59.3	1190	2790	7100
	MW-77	Oct-13		541	846	< 0.0200	5.59	< 0.500	59.2	1240	2840	7150
	MW-77	Apr-14		627	781		3.5	2.85	72.1	1540	3390	8060
	MW-77	Nov-14		630	500		2.7	< 0.02	84	1300	4100	8200
	MW-78	Mar-12		406	1060		7.11	< 0.500	20.5	934	1780	5540
	MW-78	Mar-13		286	655		19.7	2.51	22.7	660	2270	5260
	MW-78	Apr-14		542	215		10.9	< 0.150	25.2	524	2650	5760
	MW-79	Mar-12		505	1560		9.35	1.76	8.03	1310	2150	6730
	MW-79	Sep-12	FD	546	1750		11.9	4.99	11.6	1780	2520	6570
	MW-79	Sep-12		514	1750		11.8	3.51	11.5	1680	2500	6610

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
EP	MW-79	Mar-13		546	1680		10.3	< 1.00	9.05	1200	2240	5880
	MW-79	Oct-13		597	1930		8.3	1.47	9.95	1220	2300	6060
	MW-79	Apr-14		599	1810		8.56	12.5	9.27	1510	2690	6920
	MW-79	Nov-14		650	1600		5.8	2.9	8.6	1100	2500	5600
	MW-80	Mar-12		602	1250		3.36	0.735	2.97	895	1870	5650
	MW-80	Mar-13		635	1310		3.82	< 1.00	4.02	911	2260	5130
	MW-80	Apr-14		645	1470		3.62	2.73	3.84	983	2070	6080
	MW-81	Mar-12		507	1150		7.12	12.8	6.29	1020	1880	5730
	MW-81	Mar-13	FD	563	1280		7.66	4.61	6.57	903	2120	5040
	MW-81	Mar-13		560	1260		7.57	12.2	6.47	915	2070	4950
	MW-81	Apr-14		111	1140		8.13	79.1	9.51	255	2350	6500
	MW-82	Mar-12		309	1300		14.2	< 0.500	7.92	2000	2370	6860
	MW-82	Mar-13		298	1520		19.2	< 1.00	10.3	1890	2600	6270
	MW-82	Apr-14	FD	286	1510		18	< 0.150	9.02	1810	2070	5460
	MW-82	Apr-14		279	2880		18.2	< 0.150	9.55	1800	3910	6260
	MW-83	Mar-12		345	1180		3.55	< 0.500	13.9	902	1330	4850
	MW-83	Sep-12		424	366		5.55	< 1.00	48.8	812	3700	6840
	MW-83	Mar-13		379	976		5.53	2.89	34	931	2620	5440
	MW-83	Oct-13		552	54.2		4.88	< 0.500	60	564	4310	7620
	MW-83	Apr-14		484	271		4.58	4.54	53.8	616	3920	7400
	MW-83	Nov-14		520	14		3.9	< 0.02	56	410	4200	6400
	MW-84	Mar-12	FD	666	1780		5	< 0.500	6.15	1720	3320	9310
	MW-84	Mar-12		659	1770		5.04	< 0.500	5.85	1630	3300	9120
	MW-84	Sep-12		604					6.41	1520		
	MW-84	Mar-13		633	1970		6.48	< 1.00	6.59	1530	3920	8580
	MW-84	Oct-13		616					12.1	1680		
	MW-84	Apr-14		698	1620		6.07	< 0.150	8.8	1750	3660	10500
	MW-84	Nov-14		610	1300		5.2	0.14	14	1600	5800	11000
	MW-87	Apr-12		556	3960		2.03	< 1.00	22.3	2650	4000	13200
	MW-87	Apr-13		636	4310		2.25	< 1.00	23.8	2860	4690	12900
	MW-87	Nov-13		762					31.8	4470		
	MW-87	Apr-14		662	5340		1.5	2.11	28.6	3120	4760	13600
	MW-87	Nov-14		750					26	2700		
	MW-88	Apr-12		346	1480		1.19	< 1.00	2.96	1020	1950	5630
	MW-88	Apr-13		400	1490		1.35	< 0.100	3.39	992	2140	5160
	MW-88	Nov-13		670					3.36	1850		
	MW-88	Apr-14		377	2000		1.26	< 0.150	3.11	1330	2820	7340
	MW-88	Nov-14		570					3	1300		
	MW-120	Oct-13		589	1920		4.08	2.06	4.64	1640	3220	8090
	MW-120	Apr-14		587	2180		3.56	< 0.150	3.99	1470	3430	8000
	MW-120	Nov-14		850	2800		2	1.8	5	1900	3600	8700
	MW-121	Oct-13		751	1990		4.34	0.553	3.39	906	2050	6390
	MW-121	Apr-14		750	1880		3.85	2.41	3.15	922	2210	6040
	MW-121	Nov-14		720	1400		3.2	3.8 J6	3.4	940	3100	6100
	MW-122	Oct-13		384	1170		4.23	< 0.500	4.54	888	1510	4490

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
EP	MW-122	Apr-14		492	1370		3.53	< 0.150	5.14	1050	2190	5740
	MW-122	Nov-14		860	4200		2.1	0.94	5.9	3900	5700	16000
	MW-123	Nov-13	FD	578	1030		1.14	< 0.500	4.18	1280	1880	5380
	MW-123	Nov-13		578	1590		1.07	< 0.500	4.35	1260	1860	5680
	MW-123	Apr-14		539	1680		1.21	< 0.150	4.25	1170	2050	5900
	MW-123	Nov-14		580	1400		1	< 0.02	3.9	1100	2300	5600
	MW-124	Nov-13		784	3450		1.39	0.583	9.37	1940	2820	10100
	MW-124	Apr-14		798	3380		0.968	< 0.150	6.94	1610	3800	10000
	MW-124	Nov-14		820	3000		0.66	< 0.02	7.1	1700	3800	9500
	OCD-1R	Mar-12		495	1620		4.26	1.01	4.23	1080	1920	5770
	OCD-1R	Sep-12		606					5.73	2780		
	OCD-1R	Nov-13		637					6.22	5010		
	OCD-1R	Apr-14		656	3940		3.4	0.808 J	4.52	3000	3410	11400
	OCD-1R	Nov-14		840	5800		1.1	1.1	4.1	4700	6300	11000
	OCD-2A	Mar-12	FD	575	1480		0.62	< 0.500	4.86	848	1870	4510
	OCD-2A	Mar-12		563	1450		0.617	< 0.500	4.78	819	1840	5530
	OCD-2A	Sep-12		812					5.67	1050		
	OCD-2A	Mar-13		887	2820		0.798	< 1.00	7.04	1250	2360	7690
	OCD-2A	Nov-13		658					5.02	2030		
	OCD-2A	Apr-14		662	2490		0.77	< 0.150	4.78	1460	2060	7300
	OCD-2A	Nov-14		840					4.5	2700		
	OCD-3	Mar-12		362	773		0.908	< 0.500	11.2	487	1360	3450
	OCD-3	Sep-12		502					12.1	552		
	OCD-3	Mar-13		512	953		1.13	< 1.00	12.5	523	1690	3950
	OCD-3	Nov-13		642					14.8	1410		
	OCD-3	Apr-14		514	990		0.768	< 0.150	13.4	680	2000	5160
	OCD-3	Nov-14		760 V					13 O1J5	1700 O1V		
	OCD-4	Mar-12		655	4700		0.382	0.65	33.1	2550	2720	12700
	OCD-4	Mar-13		872	4920		0.613	< 1.00	35.7	2520	3140	12500
	OCD-4	Nov-13		878					43.7	3010		
	OCD-4	Apr-14		818	5370		0.787	< 0.150	37.1	2520	2880	12900
	OCD-4	Nov-14		1100					36	3400		
	OCD-5	Mar-12		684	4520		0.741	< 0.500	34.8	2580	2710	12000
	OCD-5	Mar-13		866	4850		1	< 1.00	36.4	2620	3080	12400
	OCD-5	Nov-13		835					39.3	2940		
	OCD-5	Apr-14	FD	694	5250		0.67	< 0.150	35.1	2400	2970	11900
	OCD-5	Apr-14		744	4810		0.613	< 0.150	35.7	2580	2710	12400
	OCD-5	Nov-14		1000	5100		0.42	< 0.02	35	3500	3400	12000
	OCD-6	Mar-12		557	3730		3.57	< 0.500	12.5	2600	3080	11500
	OCD-6	Sep-12		703					14.6	3030		
	OCD-6	Mar-13		603	4000		3.84	< 1.00	13.1	2900	3300	11200
	OCD-6	Nov-13		757					13.4	3130		
	OCD-6	Apr-14		806	4500		2.34	0.232 J	13.4	3120	2770	11900
	OCD-6	Nov-14		780	2900		2.5	< 0.02	11	1700	2600	7700

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
EP	OCD-7AR	Mar-12		459	2070		4.02	< 0.500	7.32	1790	3250	7720
	OCD-7AR	Sep-12		621					6.42	2660		
	OCD-7AR	Mar-13		592	2190		4.9	< 1.00	7.49	2050	3670	9400
	OCD-7AR	Nov-13		623					7.48	2250		
	OCD-7AR	Apr-14	FD	651	2890		2.82	< 0.150	7.22	2220	4330	8700
	OCD-7AR	Apr-14		646	2290		2.74	< 0.150	6.92	2250	3450	8060
	OCD-7AR	Nov-14		700	2800		3.5	0.15	6.6	2500	3900	9100
	OCD-7B	Mar-13		552	867		1.33	< 1.00	12.2	650	2270	4670
	OCD-8A	Apr-12		527	2550	< 0.0200	3.34	< 1.00	8.95	1980	3460	9600
	OCD-8A	Sep-12	FD			< 0.0200						
	OCD-8A	Sep-12				< 0.0200						
	OCD-8A	Apr-13	FD	642	2630	< 0.0200	3.78	< 1.00	8.76	2030	3910	5320
	OCD-8A	Apr-13		674	2540	< 0.0200	3.95	< 1.00	8.92	2050	3770	9760
	OCD-8A	Nov-13		722		< 0.0200			9.31	2050		
	OCD-8A	Apr-14	FD	657	3030	< 0.00500	1.92	< 0.150	8.73	2260	3330	9780
	OCD-8A	Apr-14		671	3200	< 0.00500	2.04	< 0.150	8.7	2170	3690	10300
	OCD-8A	Nov-14		1200	6300	< 0.0018	1.7	< 0.02	13	3500	3500	13000
	OCD-8B	Apr-13		716	2180		0.98	< 1.00	8.75	1330	2880	7400
Field E of Refinery	KWB-1A	Apr-12		480	382	< 0.0200	1.23	< 1.00	0.849	144	2320	4910
	KWB-1A	Sep-12		537	398	< 0.0200	1.32	< 1.00	1.03	172	2360	4950
	KWB-1A	Apr-13		537	422	< 0.0200	1.11	< 1.00	1.16	176	2430	4670
	KWB-1A	Oct-13		583	489	< 0.0200	1.28	< 0.500	1.11	206	2420	4850
	KWB-1A	Apr-14		583	459	< 0.00500	0.916	< 0.150	1.28	206	2440	5180
	KWB-1A	Nov-14		590	470	< 0.0018	1	1.4	0.99 J	220	2800	4500
	KWB-1C	Apr-13		474	380		1.03	1.75	5.68	161	2150	4420
	KWB-7	Apr-12		361	506	< 0.0200	0.843	< 0.500	0.477	300	987	3200
	KWB-7	Oct-12		405	650	< 0.0200	0.924	< 1.00	0.749	314	1200	3400
	KWB-7	Apr-13		357	615	< 0.0200	0.923	< 1.00	1.09	297	1080	3340
	KWB-7	Nov-14		360	440	< 0.0018	0.78	< 0.02	0.26 J	280	1000	2800
	KWB-10R	Nov-14		170	190		0.59	< 0.02	0.51 J	160	< 0.077	1200
	KWB-11A	Apr-12		429	861	< 0.0200	0.779	15.6	0.669	312	930	3480
	KWB-11A	Oct-12		470	1020	< 0.0200	0.867	21.1	0.716	328	996	3780
	KWB-11A	Apr-13		398	1070	< 0.0200	0.818	17	0.643	323	1030	4020
	KWB-11A	Nov-14	FD	740	1500	< 0.0018	0.59	46	0.81 J	430	1400	4500
	KWB-11A	Nov-14		720	1200	< 0.0018	0.59	47	0.79 J	400	1100	4700
	KWB-11B	Apr-12		405	284	< 0.0200	0.414	0.767	2.21	81.5	1320	2720
	KWB-11B	Oct-12		459	297	< 0.0200	0.347	2.81	2.75	85	1470	2810
	KWB-11B	Apr-13		420	294	< 0.0200	< 0.500	2.7	3.26	93.8	1480	2820
	KWB-11B	Apr-14		396	291	< 0.00500 H	0.291	2.25	2.15	77.4	1250	2480
	KWB-11B	Nov-14		450	240	< 0.0018	0.4	2.4	2.2	86	1400	2100
	KWB-12A	Oct-12		515	118	< 0.0200	0.587	7.46	0.884	156	2520	4030
	KWB-12A	Oct-13		495	125	< 0.0200	0.5	4.58	0.732	135	2170	3470
	KWB-12A	Nov-14		590	140	< 0.0018	0.47	4.3	0.89 J	140	2300	3400
	KWB-12A	Nov-14	FD	610	130	< 0.0018	0.45	4.3	0.67 J	150	2400	3700
	KWB-12B	Apr-12		566	115	< 0.0200	< 0.500	9.68	0.824	166	2330	4110

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
Field E of Refinery	KWB-12B	Oct-12	FD	513	107	< 0.0200	0.453	8.96	0.765	147	2450	3800
	KWB-12B	Oct-12		519	105	< 0.0200	0.426	7.26	0.754	141	2480	3870
	KWB-12B	Apr-13	FD	544	114	< 0.0200	< 0.500	7.46	0.737	157	2450	4240
	KWB-12B	Apr-13		531	111	< 0.0200	< 0.500	7.42	0.831	160	2460	4150
	KWB-12B	Oct-13		521	106	< 0.0200	0.357	4.74	0.732	143	2040	3640
	KWB-12B	Apr-14	FD	569	129	< 0.00500	0.291	5.55	0.795	143	2070	3620
	KWB-12B	Apr-14		526	122	< 0.00500	0.296	5.56	0.756	138	2130	3800
	KWB-12B	Nov-14		650	120	< 0.0018	0.31	4.5	0.72 J	170	2400	3600
	MW-57	Apr-12		520	380		1.91	< 1.00	5.17	422	1340	3300
	MW-57	Oct-12		588	943		3.3	20	2.67	933	4700	8280
	MW-57	Apr-13		273	476		2.08	< 1.00	0.825	343	1140	3210
	MW-57	Oct-13		235	172		0.706	< 0.500	0.349	116	387	1490
	MW-57	Apr-14		674	152		0.395	< 0.150	11.2	118	464	1700
	MW-57	Nov-14		570	540		1.8	2.7	1.2	440	1900	4100
	MW-58	Oct-13		223	342	< 0.0200	1.15	< 0.500	0.755	131	199	1770
	MW-58	Nov-14		340	140	< 0.0018	1.4	< 0.02	0.55 J	66	160	1300
	MW-111	Apr-13		214	548		1.19	< 1.00	0.652	184	198	2150
	MW-111	Oct-13		219	559		1.34	< 0.500	0.31	218	188	1840
	MW-111	Apr-14		214	525		1.01	0.153 J	0.456	198	235	2020
	MW-111	Nov-14		260	510		2	< 0.02	0.49 J	220	250	1700
	MW-112	Nov-14		190	230		1	< 0.02	0.31 J	190	5.4	1200
	MW-113	Apr-13		249	219		< 0.500	< 1.00	0.849	151	756	2260
	MW-113	Oct-13		270	220		0.566	< 0.500	0.723	151	746	2110
	MW-113	Apr-14		300	205		0.282	< 0.150	1.45	152	693	2440
	MW-113	Nov-14	FD	320	190		0.49	< 0.02	0.4 J	170	860	2000
	MW-113	Nov-14		300	180		0.56	< 0.02	0.4 J	160	800	1900
	MW-125	Apr-14		636	361		1.17	0.399 J	1.56	297	2700	4960
	MW-125	Nov-14		610	340		1	0.2	1.3	260	2900	4100
	MW-126A	Apr-14		472	331		0.599	< 0.150	3.09	197	2080	4510
	MW-126A	Nov-14		360	190		0.98	< 0.02	0.66 J	180	1400	2400
	MW-126B	Apr-14		354	341		0.795	< 0.150	0.531	196	1600	4030
	MW-126B	Nov-14		600	290		0.68	0.39	2.4	210	2400	3500
	MW-127	Apr-14		185	275		0.95	< 0.150	0.612	145	392	2040
	MW-127	Nov-14		290	240		0.93	< 0.02	0.99 J	160	620	1800
	MW-128	Apr-14		207	283		0.991	< 0.150	0.515	106	172	1380
	MW-128	Nov-14		250	320		1.1	< 0.02	1.2	110	250	1400
	MW-129	Nov-14		270	320		0.98	< 0.02	0.8 J	210	52	1300
	MW-131	Apr-14		147	337		0.637	< 0.150	0.573	150	12.2	1360
	MW-131	Nov-14		200	290		0.47	< 0.02	0.64 J	160	8.3	1200
	MW-133	Nov-14		200 V	170		1.1	< 0.02	0.46 J	140 V	140	1300
	MW-134	Apr-14		569	459		0.952	2.64	1.94	273	2650	5540
	MW-134	Nov-14		660	580		0.91	7.4	1.8	310	3100	4600
	MW-135	Apr-14		618	1030		0.739	47.3	1.58	507	2090	5700
	MW-135	Nov-14		840	1300		0.78	69	2.8	570	2500	5600
	RA-4196	Apr-12			143		< 0.500	< 1.00	2.28	92.8	1060	2200

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
Field E of Refinery	RA-4196	Oct-12	FD		199		0.285	< 1.00			1340	2730
	RA-4196	Oct-12			195		0.286	< 1.00			1310	2420
	RA-4196	Apr-13	FD	430	268		< 0.500	< 1.00	2.62	91.7	1340	2420
	RA-4196	Apr-13		436	204		< 0.500	< 1.00	2.61	84.4	1220	2290
	RA-4196	Nov-13	FD	408	146		0.31	< 0.500	2.67	90.7	1160	2580
	RA-4196	Nov-13		416	144		0.318	< 0.500	2.56	91.3	1080	2340
	RA-4196	Apr-14		813	137		0.375	< 0.150	2.15		1100	2600
	RA-4798	Apr-12		314	101		< 0.500	< 1.00	2.18	60.7	963	1930
	RA-4798	Oct-12			70.2		0.36	< 1.00			810	1450
	RA-4798	Apr-13		440	155		< 0.500	1.39	2.68	117	1460	2580
	RA-4798	Nov-13		348	99.1		0.309	2.35	2.65	80.4	871	2030
	RA-4798	Apr-14	FD	489	146		0.37	< 0.150	2.49		1150	2280
	RA-4798	Apr-14		412	137		0.389	2.73	2.07		1270	2340
	RA-4798	Nov-14		400	150		0.33	1.5	2.2	110	1400	2200
	RW-18	Apr-12	FD	444	408		2.2	< 1.00	0.638	198	3020	5540
	RW-18	Apr-12		476	414		2.24	< 1.00	0.62	202	3080	5570
	RW-18	Apr-13		474	411		2.4	3.24	1.13	226	3230	5820
	RW-18	Apr-14		545	347		1.78	3.33	0.984	218	2860	5600
N Refinery	MW-23	Apr-12		94.5	503		1.73	< 1.00	1.08	474	5.76	2070
	MW-23	Oct-12		89.8	502		1.79	< 1.00	1.16	442	16.8	2170
	MW-23	Apr-13		91.7	498		1.15	< 1.00	0.97	489	2.81	2270
	MW-23	Oct-13		96	521		1.87	< 0.500	1.22	437	9.12	2130
	MW-23	Apr-14		88.3	509		1.33	< 0.150	1.12	483	24	1940
	MW-23	Nov-14		260	920		2.4	< 0.02	1.3	740	740	4000
	MW-29	Apr-12		474	379		2.3	< 1.00	4.41	386	1900	4260
	MW-29	Oct-12		354	369		1.32	< 1.00	2.56	381	1590	3410
	MW-29	Apr-13		520	414		3.32	< 1.00	9.81	342	2540	5100
	MW-29	Oct-13		324	310		1.24	< 0.500	2.02	310	1310	3310
	MW-29	Apr-14		539	319		2.66	< 0.150	9.84	293	2450	4860
	MW-29	Nov-14		570	320		1.8	< 0.02	4.6	300	2500	4100
	MW-39	Oct-13		89.9	385		2.31	< 0.500	0.353	1080	893	3600
	MW-40	Apr-12		255	150		1.69	< 1.00	0.982	80.8	1010	2430
	MW-40	Apr-13		374	153		1.34	< 1.00	1.34	109	1220	2720
	MW-40	Apr-14		386	179		1.28	< 0.150	1.56	124	1340	2700
	MW-41	Apr-12		198	462		0.972	< 1.00	0.477	398	1130	3400
	MW-41	Oct-12		261	526		0.984	< 1.00	0.642	494	1140	3510
	MW-41	Apr-13		236	322		0.865	< 1.00	0.463	431	1260	3160
	MW-41	Oct-13		232	373		1.05	< 0.500	0.404	425	1170	3140
	MW-41	Apr-14		242	275		0.747	< 0.150	0.444	387	1450	3760
	MW-42	Apr-12		223	728		0.804	< 1.00	0.597	416	897	3560
	MW-42	Oct-12		259	694		0.867	1.83	0.59	474	897	3690
	MW-42	Apr-13		274	752		0.569	< 1.00	0.583	500	911	3780
	MW-42	Oct-13		233	697		0.987	< 0.500	0.535	455	862	3610
	MW-42	Apr-14		248	914		0.545	< 0.150	0.56	508	954	3440
	MW-43	Apr-12		145	590	< 0.0200	0.881	< 1.00	0.499	546	100	2260

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Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
N Refinery	MW-43	Oct-12	FD	157	663	< 0.0200	1.09	< 1.00	0.576	511	90.3	2400
	MW-43	Oct-12		145	676	< 0.0200	1.08	< 1.00	0.621	506	96.2	2350
	MW-43	Apr-13		205	638	< 0.0200	0.614	< 1.00	0.477	465	304	2400
	MW-43	Oct-13	FD	126	731	< 0.0200	1.19	< 0.500	0.556	520	73.2	2530
	MW-43	Oct-13		115	720	0.0321	0.883	< 0.500	0.538	557	73.7	2420
	MW-43	Apr-14		205	886	< 0.0500	0.25	< 0.150	0.596	531	218	2650
	MW-43	Nov-14		200 V	750	0.0025 J	0.78	< 0.02	0.61 J	590 V	98	2300
	MW-59	Apr-12		512	235		1.25	< 1.00	0.552	152	1380	3140
	MW-59	Apr-13		478	197		1.06	< 1.00	0.657	152	1790	3320
	MW-59	Apr-14		514	176		0.475	< 0.150	0.643	156	1890	3420
	MW-60	Apr-12		432	304	< 0.0200	1.05	< 1.00	0.492	242	1670	3660
	MW-60	Oct-12	FD	352	276	< 0.0200	1.01	< 1.00	0.477	172	1670	3780
	MW-60	Oct-12		357	281	< 0.0200	1.02	< 1.00	0.462	171	1700	3760
	MW-60	Apr-13	FD	365	271	< 0.0200	0.935	< 1.00	0.65	220	1660	3790
	MW-60	Apr-13		403	275	< 0.0200	0.942	< 1.00	0.532	216	1630	3480
	MW-60	Oct-13	FD	415	235	< 0.0200 J	1.08	< 0.500	0.495	219	1660	3570
	MW-60	Oct-13		399	237	< 0.0200	1.04	< 0.500	0.511	205	1670	3590
	MW-60	Apr-14		374	238	0.140 J	2.5	< 0.150	0.586	181	1860	3440
	MW-60	Nov-14		530	200	< 0.0018	1.1	< 0.02	0.63 J	240	1900	3400
	MW-61	Apr-12		348	504		1.29	< 1.00	0.54	439	1030	3400
	MW-61	Oct-12		276	457		1.15	< 1.00	0.66	341	1190	3230
	MW-61	Apr-13		345	514		1.08	< 1.00	0.678	404	1120	3130
	MW-61	Oct-13		314	632		1.33	< 0.500	0.741	375	1060	3280
	MW-61	Apr-14		365	520		0.813	< 0.150	0.629	420	1070	3400
	MW-61	Nov-14		470	250		1.5	< 0.02	1.1	290	930	2700
	MW-62	Apr-12		311	246		1.18	< 1.00	1.01	128	472	2200
	MW-62	Oct-12		285	253		1.35	< 1.00	1.16	128	397	2190
	MW-62	Apr-13		282	257		0.895	< 1.00	1.75	136	407	1870
	MW-62	Oct-13		293	256		1.91	< 0.500	1.16	207	735	2450
	MW-62	Apr-14		285	240		1.11	< 0.150	1.12	224	440	3430
	MW-62	Nov-14		160	470		1.6	< 0.02	1.8	480	5.5	2100
	MW-67	Oct-13		167	211	< 0.0200	0.793	< 0.500	0.461	149	180	1580
	MW-67	Nov-14		240	170	< 0.0018	0.61	< 0.02	0.59 J	160	380	1600
	MW-90	Apr-12	FD	262	147		1.12	< 1.00	0.929	141	1060	2610
	MW-90	Apr-12		221	147		1.12	< 1.00	0.921	125	1020	2610
	MW-90	Oct-12		372	147		1.28	< 1.00	1.37	200	1500	3200
	MW-90	Apr-13		285	157		1.26	< 1.00	1	186	1140	2700
	MW-90	Oct-13		343	163		1.8	0.525	1.52	301	1650	3560
	MW-90	Apr-14		270	162		0.892	< 0.150	0.928	185	1070	2600
	MW-90	Nov-14		520	160		9.3	4.8	3.5	500	6200	8800
	MW-91	Oct-13	FD	319	35.7		1.24	< 0.500	0.687	39.6	536	2090
	MW-91	Oct-13		331	37.6		1.37	< 0.500	0.727	40.4	529	1860
	MW-91	Apr-14		251	29		0.933	< 0.150	0.435	38.8	240	1540
	MW-91	Nov-14		460	36		1.3	< 0.02	1	37	830	2000
	MW-93	Apr-12		360	50.3		1.56	< 1.00	2.43	80.6	640	2030

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
N Refinery	MW-93	Oct-12		292	76.6		1.76	< 1.00	2.95	87.2	617	1830
	MW-93	Apr-13		312	85		1.24	< 1.00	3.21	99.7	554	1810
	MW-93	Oct-13		368	114		1.66	< 0.500	3.52	87.6	795	2140
	MW-93	Apr-14		414	173		1.16	< 0.150	3.11	103	645	2130
	MW-93	Nov-14		640	200		3.1	< 0.02	4.7	130	1700	3100
	MW-94	Nov-14		190	230		0.59	< 0.02	0.58 J	370	240	2600
	MW-95	Apr-12		164	230		0.822	< 1.00	0.423	110	272	1380
	MW-95	Apr-13		177	207		0.569	< 1.00	0.541	136	169	1450
	MW-95	Apr-14		177	226		0.56	< 0.150	0.494	143	160	1440
	MW-96	Apr-12		131	196		1.15	< 1.00	0.865	195	292	1690
	MW-96	Oct-12		229	204		1.3	< 1.00	1.11	233	347	1880
	MW-96	Apr-13		161	165		0.693	< 1.00	1.04	232	332	1720
	MW-96	Oct-13		236	195		1.15	< 0.500	1.26	259	509	2160
	MW-96	Apr-14		154	146		0.606	< 0.150	0.891	234	286	1750
	MW-96	Nov-14		390	220		1.8	< 0.02	1.9	310	1200	3000
	MW-98	Apr-12		472	124		1.73	< 1.00	< 0.200	83.2	1590	3080
	MW-98	Oct-12		439	108		1.55	< 1.00	0.258	87.5	1820	3780
	MW-98	Apr-13		464	103		1.37	< 1.00	< 0.200	90.3	1750	3590
	MW-98	Oct-13		480	79.9		2.05	< 0.500	< 0.200	93.9	1650	3220
	MW-98	Apr-14	FD	475	38		1.02	< 0.150	0.229	92.8	1810	3390
	MW-98	Apr-14		471	36.3		0.962	< 0.150	0.218	92.1	1800	3360
	MW-98	Nov-14		460	32		1.9	< 0.02	0.2 J	81	1600	2800
	RW-9	Apr-12		327	197		2.7	< 1.00	5.7	253	1510	2860
	RW-9	Apr-13		262	292		1.46	< 1.00	1.95	314	775	2670
	RW-9	Apr-14		291	318		1.1	< 0.150	1.57	306	1260	3380
	RW-10	Apr-12		227	296		1.57	< 1.00	2.14	323	544	1280
	RW-10	Apr-13		343	190		2.38	< 1.00	6.78	236	1730	3190
	RW-10	Apr-14		324	231		2.17	< 0.150	5.84	227	2060	3420
	RW-16	Apr-13		580	451		4.54	< 1.00	1.14	522	2700	5350
	RW-16	Apr-14	FD	556	429		3.89	< 0.150	0.767	455	2550	5150
	RW-16	Apr-14		531	452		3.74	< 0.150	0.799	430	2680	5130
	RW-16A	Apr-12		397	452		4.64	< 1.00	1.02	339	2150	4820
	RW-17	Apr-13		598	505		2.19	< 1.00	4.13	383	2960	5470
	RW-17	Apr-14		585	524		1.84	< 0.150	3.88	405	3280	6100
	RW-17A	Apr-12		377	513		2.2	< 1.00	4.5	279	2610	5390
N RO Reject Field	MW-117	Feb-13		568	154	< 0.0040	2.73		6.92	176	2310	3910
	MW-117	May-13		524	137	< 0.0040	2.29	< 0.030	4.37	160	2010	4260
	MW-117	Sep-13		550	71	< 0.00500	2.8		8.92	118	2020	3970
	MW-117	Nov-13		556	92.4	< 0.00500	3.95	< 0.0300	7.54	115	2190	4150
	MW-117	Apr-14		646	97		3.03	< 0.150	9.29	167	2140	4980
	MW-117	Nov-14	FD	640	96		2.4	0.64	5	98	2200	3300
	MW-117	Nov-14		610	96		3	0.65	5.2	110	2000	3000
	MW-118	Feb-13		563	296	< 0.0040	5.16		7.95	218	2450	4610
	MW-118	May-13		530	287	< 0.0040	5.39	2.09	7.2	229	2250	5090
	MW-118	Sep-13		543	132	< 0.00500	4.48		7.69	215	2310	4550

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
N RO Reject Field	MW-118	Nov-13		532	90.1	< 0.00500	6.78	< 0.0300	6.92	163	2470	4640
	MW-118	Apr-14		732	92.3		5.58	< 0.150	6.15	134	2190	5200
	MW-118	Nov-14		670	160		4.9 J6	0.98	6.2	140	2700	3700
	MW-119	Feb-13		494	116	< 0.0040	2.36		0.87	127	2090	3670
	MW-119	May-13		491	118	< 0.0040	2.43	1.91 J	0.794	120	1970	4030
	MW-119	Sep-13		635	244	< 0.00500	2.28		0.993	133	1940	4030
	MW-119	Nov-13		551	185	< 0.00500	3.17	< 0.0300	1.1	98.8	2210	4130
	MW-119	Apr-14	FD	655	216		2.62	0.174 J	1.08	136	1830	4140
	MW-119	Apr-14	FD									
	MW-119	Apr-14		680	235		2.61	0.176 J	1.13	140	1980	4200
	MW-119	Nov-14		670	49		2.6	< 0.02	1.8	77	2300	3200
	MW-18	Apr-12		319	213	< 0.0200	1.14	15.3	1.21	80.9	1010	2490
NCL	MW-18	Oct-12		498	96.7	< 0.0200	2.06	32.6	10.1	72	1710	3410
	MW-18	Apr-13	FD	480	141	< 0.0200	1.11	32.5	2.85	97.1	1640	3440
	MW-18	Apr-13		494	143	< 0.0200	1.13	32.5	2.86	97.3	1590	3110
	MW-18	Oct-13		456	114	< 0.0200	2.26	21.3	13.3	64.7	1450	3260
	MW-18	Apr-14		507	159	< 0.00500	0.954	35.2	2.89	83.2	1830	3700
	MW-45	Apr-12		480	378	< 0.0200	1.91	< 1.00	3.84	271	2140	4180
	MW-45	Oct-12		495	373	< 0.0200	1.97	< 1.00	5.16	286	2240	4290
	MW-45	Apr-13		460	380	< 0.0200	1.4	< 1.00	4.31	317	1980	4330
	MW-45	Oct-13		535	344	< 0.0200	1.77	< 0.500	4.3	391	1840	4060
	MW-45	Apr-14		524	441	< 0.00500	0.877	< 0.150	4.12	348	2130	4640
	MW-45	Nov-14		590	470	< 0.0018	1.5	< 0.02	4.6	360	2000	4300
	MW-53	Apr-12		292	108		1.05	< 1.00	0.998	92.4	1200	2360
	MW-53	Apr-13		284	107		1.2	< 1.00	1.06	103	1080	2570
	MW-53	Apr-14		290	95.4		0.827	< 0.150	0.935	87.6	1190	2060
	MW-54A	Apr-12		354	195		1.07	< 1.00	0.247	70.6	545	1850
	MW-54A	Oct-12		397	262		1.58	11	0.53	84.3	857	2210
	MW-54A	Apr-13		347	212		0.947	< 1.00	0.302	66.5	621	1950
	MW-54A	Oct-13		355	224		1.27	1.66	0.393	74.9	657	2060
	MW-54A	Apr-14		354	211		0.6	< 0.150	0.275	69.2	666	1800
	MW-54A	Nov-14		370	190		1.2	0.85 J	0.38 J	74	680	1900
	MW-54B	Apr-13		345	176			< 1.00	1.16	48.8	747	2050
	MW-55	Apr-12		441	359	< 0.0200	1.72	9.31	1.03	237	2550	5000
	MW-55	Oct-12	FD	498	216	< 0.0200	2.26	8.15	1.48	165	2560	4540
	MW-55	Oct-12		510	225	< 0.0200	2.27	6.94	1.48	163	2470	4270
	MW-55	Apr-13		596	337	< 0.0200	1.37	7.65	1.08	235	2460	4620
	MW-55	Oct-13		519	327	< 0.0200	1.6	5.25	0.835	214	2280	4450
	MW-55	Apr-14	FD	573	445	< 0.00500	1.1	9.43	0.882	231	2600	5360
	MW-55	Apr-14		560	357	< 0.00500	1.14	9.61	0.926	233	2670	5100
	MW-55	Nov-14		610	190	< 0.0018	2.4	6.5 J	0.9 J	130	2300	3600
	MW-56	Apr-12	FD	417	336		1.27	< 1.00	2.04	176	1850	3870
	MW-56	Apr-12		485	331		1.22	< 1.00	2.16	207	1830	3980
	MW-56	Oct-12		508	258		1.14	< 1.00	2.12	183	2070	3840
	MW-56	Apr-13		546	328		0.961	< 1.00	2.14	223	1890	3780

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
NCL	MW-56	Oct-13		483	226		1.16	1.04	1.91	203	1860	3750
	MW-56	Apr-14		559	365		0.639	2.32	1.88	237	1840	4320
	MW-56	Nov-14		540	340		1.2	< 0.02	2.1	250	1900	3500
	MW-108	Apr-12		175	106		2.67	< 1.00	0.775	55.9	527	1870
	MW-108	Oct-12		267	127		2.7	< 1.00	1.1	76	863	2260
	MW-108	Apr-13		220	110		2.24	< 1.00	0.601	58.7	552	1870
	MW-108	Oct-13		368	154		3.01	< 0.500	3.64	168	1280	3300
	MW-108	Apr-14		316	101		1.58	< 0.150	1.07	89.3	1130	2820
	MW-108	Nov-14		350	82		3.3	0.19	3.2	110	1200	2500
	NCL-31	Apr-12		210	138		1.3	< 1.00	0.419	139	853	2240
	NCL-31	Oct-12		285	98		1.34	< 1.00	0.622	129	1140	2450
	NCL-31	Apr-13		246	91.3		1	< 1.00	0.261	112	997	2320
	NCL-31	Oct-13		245	94.2		1.26	< 0.500	0.382	121	849	2110
	NCL-31	Apr-14		267	69.6		0.776	< 0.150	0.321	112	1030	2300
	NCL-32	Nov-14		440	460		4.6	0.57	19	82	800	2000
	NCL-33	Apr-12		298	368		2.39	< 1.00	3.76	81.2	534	2070
	NCL-33	Oct-12		350	349		2.29	< 1.00	3.81	110	459	1920
	NCL-33	Apr-13		343	321		1.85	< 1.00	3.65	111	401	2010
	NCL-33	Oct-13		303	340		2.52	< 0.500	3.7	98.2	448	1820
	NCL-33	Apr-14		358	302		1.83	< 0.150	3.78	105	557	1920
	NCL-33	Nov-14		450	340		2.6	< 0.02	5	110	720	2100
	NCL-34A	Oct-13		207	246		1.42	< 0.500	1.16	108	125	1450
	NCL-34A	Nov-14		250	180		1.4	< 0.02	0.86 J	120	100	1200
	NCL-44	Apr-12		208	160		1.82	< 1.00	1.68	48.6	441	1560
	NCL-44	Oct-12		262	157		1.72	< 1.00	2.37	66	432	1620
	NCL-44	Apr-13		283	153		1.42	< 1.00	2.43	65.1	471	1780
	NCL-44	Oct-13		250	146		1.7	< 0.500	2.09	64.6	399	1810
	NCL-44	Apr-14		265	149		1.2	< 0.150	2.06	66	454	1720
	NCL-44	Nov-14		290	850		1.8	< 0.02	2.2	70	450	1500
	NCL-49	Apr-12		415	119		0.665	5.6	0.614	121	1420	2800
	NCL-49	Oct-12	FD	454	127		0.679	6.08	0.823	123	1790	3000
	NCL-49	Oct-12		450	118		0.683	5.59	0.834	121	1750	2970
	NCL-49	Apr-13		397	117		0.553	5.16	0.737	126	1580	3190
	NCL-49	Oct-13		450	106		0.622	4.65	0.699	130	1490	2940
	NCL-49	Apr-14		430	104		0.501	5.21	0.625	116	1680	3000
	NCL-49	Nov-14		440	98		0.65	4.3	0.72 J	120	1500	2600
	NCL-49	Nov-14	FD	430	98		0.59	4.5	0.75 J	120	1700	2600
S Refinery	KWB-2R	Nov-14		330	160		1.2	< 0.02	1.2	200	1200	2600
	KWB-4	Oct-13		221	620		0.948	< 0.500	1.19	212	4.15	1690
	KWB-5	Nov-14		270	570		0.77	0.2	1	210	12	1500
	KWB-6	Nov-14		260	240		0.8	0.37	0.2 J	150	330	1600
	MW-28	Apr-12		315	149	< 0.0200	1.29	< 1.00	0.9	111	814	2540
	MW-28	Oct-12		239	163	< 0.0200	1.41	< 1.00	0.594	116	516	2030
	MW-28	Apr-13		190	168	< 0.0200	0.975	< 1.00	0.497	108	378	1680
	MW-28	Oct-13		195	179	< 0.0200	1.47	< 0.500	0.382	107	174	1420

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
S Refinery	MW-28	Apr-14		164	157	0.0500 J	1.02	< 0.150	0.382	102	166	1560
	MW-28	Nov-14		590	140	< 0.0018	0.73	< 0.02	0.92 J	96	1300	3000
	MW-48	Nov-14		190	410		0.29	< 0.02	2.4	380	260	1800
	MW-50	Apr-12		327	146		1.04	< 1.00	1.66	96.9	1240	2320
	MW-50	Oct-12		334	161		0.951	< 1.00	2.27	112	1240	2590
	MW-50	Apr-13		382	181		0.785	< 1.00	2.17	130	1230	2880
	MW-50	Oct-13		399	191		0.958	< 0.500	2.58	131	1310	2720
	MW-50	Apr-14		410	172		0.671	< 0.150	2.36	130	1300	2910
	MW-50	Nov-14		450	200		0.83	< 0.02	2.3	160	1600	2800
	MW-52	Apr-12		150	215	< 0.0200	1.74	1.51	0.29	298	927	2360
	MW-52	Oct-12		173	151	< 0.0200	1.91	< 1.00	< 0.400	285	1150	2400
	MW-52	Apr-13		171	287	< 0.0200	1.83	2.06	0.321	289	944	2570
	MW-52	Oct-13	FD	172	149	< 0.0200	1.87	2.09	0.381	279	856	2250
	MW-52	Oct-13		181	149	< 0.0200	1.84	2.17	0.379	288	856	2270
	MW-52	Apr-14	FD	161	225	< 0.00500 H	1.51	1.38	0.186 J	218	821	2510
	MW-52	Apr-14		156	223	< 0.00500 H	1.57	1.19	0.204	257	820	2580
	MW-52	Nov-14		190	150	< 0.0018	1.5	1.9	0.3 J	320	990	2000
	MW-65	Nov-14		260	470		0.72	< 0.02	0.89 J	290	310	1900
	MW-66	Apr-12		143	224	< 0.0200	1.07	< 1.00	0.915	177	3.56	1100
	MW-66	Oct-12		162	211	< 0.0200	1.3	< 1.00	1.02	183	1.9	1180
	MW-66	Apr-13		152	229	< 0.0200	1.12	< 1.00	0.984	188	1.66	1160
	MW-66	Oct-13	FD	146	237	< 0.0200	1.3	< 0.500	0.936	184	0.841	1140
	MW-66	Oct-13		141	237	< 0.0200	1.25	< 0.500	0.935	177	0.99	1100
	MW-66	Apr-14		151	209	< 0.00500 B	1.12	< 0.150	0.785	180	< 0.200 B	1170
	MW-66	Nov-14		140	150	< 0.0018	1.2	< 0.02	1	160	0.51 J	990
	MW-99	Nov-14		170	180		0.42	< 0.02	3.9	170	140	1100
	MW-101	Apr-12		193	231		0.97	< 1.00	0.518	153	167	1350
	MW-101	Oct-12		174	245		0.993	< 1.00	0.656	150	198	1500
	MW-101	Apr-13		175	242		1.24	< 1.00	0.565	145	191	1350
	MW-101	Oct-13		201	238		0.985	< 0.500	0.5	158	171	1430
	MW-101	Apr-14		209	217		0.779	< 0.150	0.504	153	161	1440
	MW-101	Nov-14		280	230		1	< 0.02	0.81 J	150	340	1600
	MW-102	Nov-14		290	220		0.61	< 0.02	0.8 J	430	590	2200
	MW-103	Apr-12		13	501		8.85	< 1.00	0.558	952	47.9	2580
	MW-103	Apr-13		19.2	661		6.88	< 1.00	0.759	1120	82.2	2800
	MW-103	Apr-14		24.5	1040		7.45	< 0.150	0.831	1420	< 10.0 B	3820
	MW-104	Apr-12		252	106		2.01	< 1.00	6.14	57.3	818	1500
	MW-104	Oct-12		288	178		2.38	< 1.00	9.41	118	914	1830
	MW-104	Apr-13		264	104		1.64	< 1.00	6.85	89.8	863	1580
	MW-104	Oct-13		247	124		2.22	< 0.500	8.35	108	798	1570
	MW-104	Apr-14	FD	235	82.4		2.24	< 0.150	5.52	91.9	679	1440
	MW-104	Apr-14	FD									
	MW-104	Apr-14		232	86		2.26	< 0.150	5.06	95.7	690	1390
	MW-104	Nov-14	FD	230	54		1.8	< 0.02	6.3	67	800	1300
	MW-104	Nov-14		230	54		2.1	< 0.02	6	69	710	1300

Table C.5 - Groundwater Analytical Results 2012-2014 - Water Quality Parameters
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
S Refinery	MW-105	Nov-14		660	37		0.96	< 0.02	7	29	1300	2400
	MW-106	Apr-12		355	83.3		1.23	< 1.00	0.74	178	1280	3040
	MW-106	Oct-12		269	44.1		1.39	< 1.00	1.92	78.8	999	1960
	MW-106	Apr-13		330	151		0.901	< 1.00	1.08	129	1090	2550
	MW-106	Oct-13		335	174		1.17	< 0.500	0.594	141	1010	2290
	MW-106	Apr-14		400	160		1	< 0.150	1.9	195	1500	3350
	MW-107	Apr-12	FD	138	275		1.42	< 1.00	0.706	69.9	< 2.50	1100
	MW-107	Apr-12		143	281		1.42	< 1.00	0.694	70.3	< 2.50	1130
	MW-107	Oct-12		151	282		1.71	< 1.00	0.949	74.1	1.09	1280
	MW-107	Apr-13		140	280		1.34	< 1.00	0.695	70.2	< 0.500	1190
	MW-107	Oct-13		130	298		1.55	< 0.500	0.795	68.6	0.57	1240
	MW-107	Apr-14		144	261		1.2	< 0.150	0.562	75.2	< 0.200 B	1250
	MW-107	Nov-14		230	300		1.7	< 0.02	0.73 J	83	160	1200
	MW-109	Apr-12		90.5	540		1.5	< 0.500	0.817	542	191	2080
	MW-109	Oct-12		144	90.4		1.41	< 1.00	< 0.400	327	828	1900
	MW-109	Apr-13		87.4	464		1.51	< 1.00	0.69	515	228	2060
	MW-109	Oct-13		77.9	349		1.53	< 0.500	0.577	516	270	1930
	MW-109	Apr-14		92.9	393		1.26	< 0.150	0.634	465	237	1980
	MW-109	Nov-14		280	270		2.4	< 0.02	1.3	490	920	2500
	MW-110	Apr-12		140	128		1.32	< 0.500	0.226	320	621	1770
	MW-110	Oct-12		81.8	492		1.51	< 1.00	< 0.400	496	222	2050
	MW-110	Apr-13		129	85.9		1.38	< 1.00	< 0.200	306	626	1750
	MW-110	Oct-13		115	88.5		1.49	< 0.500	< 0.200	294	474	1490
	MW-110	Apr-14		79	92.4		1.25	< 0.150	0.129 J	249	364	1260
	MW-110	Nov-14		100	86		1.5	< 0.02	0.14 J	270	1100	1200
	MW-130	Apr-14		321	316		0.533	0.975 J	1.34	284	1020	3080
	MW-130	Nov-14		310	250		0.73	0.35	1	310	1200	2600
	RA-313	Apr-12		163	16.5		0.89	< 1.00	1.01	15.6	402	918
	RA-313	Apr-13		166	14.8		0.699	< 1.00	1.11	16.4	389	824
	RA-313	Apr-14		171	17.2		1.01	< 0.150	0.935		450	868
S RO Reject Field	MW-114	Feb-13		600	158	< 0.0040	1.76		2.86	146	2200	3760
	MW-114	May-13		576	150	0.00432 J	1.91	< 0.030	2.76	123	1800	3990
	MW-114	Sep-13		672	199	< 0.00500	1.82		2.94	138	1950	3870
	MW-114	Nov-13		558	422	< 0.00500	1.37	< 0.0300	0.678	250	3060	5390
	MW-114	Apr-14		611	167		2.07	< 0.150	2.84	152	1920	3620
	MW-114	Nov-14		620	200		2.2	0.36	2.7	130	2300	3400
	MW-115	Feb-13		518	422	< 0.0040	1.1		1.78	199	2790	4960
	MW-115	May-13	FD	495	364	< 0.0040	1.15	< 0.030	0.766	201	2420	4990
	MW-115	May-13		511	373	< 0.0040	1.18	< 0.030	0.78	206	2490	5510
	MW-115	Sep-13		622	530	< 0.00500	0.845		0.782	247	2900	6130
	MW-115	Nov-13		606	428	< 0.00500	1.36	< 0.0300	0.709	261	3090	5370
	MW-115	Apr-14		569	222		1.29	< 0.150	0.645	227	2470	4880
	MW-115	Nov-14		690 V	500		1.5	< 0.02	0.72 J	340 V	3000	5700
	MW-116	Feb-13		624	389	< 0.0040	1.31 J		1.06	206	2250	3650
	MW-116	May-13		578	330	< 0.0040	1.19	< 0.030	1.38	194	2080	4480

Table C.5 - Groundwater Analytical Results 2012-2014 - Water Quality Parameters
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Navajo Refining, Artesia, New Mexico

Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
S RO Reject Field	MW-116	Sep-13	FD	631	339	< 0.00500	1.11		1.22	230	2140	4470
	MW-116	Sep-13		588	344	< 0.00500	1.17		1.21	235	2180	4440
	MW-116	Nov-13	FD	616	331	< 0.00500	1.51	0.487 J	1.37	235	2470	4210
	MW-116	Nov-13		606	331	< 0.00500	1.61	0.457 J	1.3	235	2470	4570
	MW-116	Apr-14		607	221		1.43	2.86	1.39	241	2160	4520
	MW-116	Nov-14		580	240		1.7	0.74	1.6	230	2200	3700
TEL	MW-49	Apr-12	FD	176	387	< 0.0200	1.54	< 1.00	1.82	310	408	2000
	MW-49	Apr-12		173	382	< 0.0200	1.39	< 1.00	1.83	302	405	1980
	MW-49	Oct-12		174	393	< 0.0200	1.62	< 1.00	2	318	454	2240
	MW-49	Apr-13	FD	173	365	< 0.0200	1.04	< 1.00	1.69	316	439	2180
	MW-49	Apr-13		177	376	< 0.0200	1.05	< 1.00	1.76	322	450	2010
	MW-49	Oct-13		175	390	< 0.0200	1.54	< 0.500	2.17	311	416	1940
	MW-49	Apr-14		189	366	< 0.00500 B	0.896	< 0.150	1.6	338	472	2280
	MW-49	Nov-14		280	380		1.6	< 0.02	3.3	320	500	2100
	TEL-1	Apr-12	FD	262	285	< 0.0018	2.17	< 1.00	0.929	470	992	2760
	TEL-1	Apr-12		278	288		2.17	< 1.00	0.948	477	970	2640
	TEL-1	Oct-12	FD	513	257		2.37	< 1.00	1.9	468	2040	4150
	TEL-1	Oct-12		504	253		2.37	< 1.00	1.76	465	2060	4240
	TEL-1	Apr-13		493	169		2.05	< 1.00	1.72	362	1770	3630
	TEL-1	Oct-13		383	257		2.62	< 0.500	1.37	413	1430	3260
	TEL-1	Apr-14	FD	359	224		1.9	< 0.150	1.3	427	1370	3140
	TEL-1	Apr-14		383	228		2	< 0.150	1.35	460	1380	3080
	TEL-1	Nov-14		600	150		3.1	< 0.02	1.9	340	1900	3600
	TEL-2	Apr-12		214	253		1.03	< 1.00	1.48	354	606	2560
	TEL-2	Oct-12		270	221		1.41	< 1.00	2.92	312	1040	3030
	TEL-2	Apr-13		222	224		0.902	< 1.00	2.04	343	696	2590
	TEL-2	Oct-13		202	242		1.07	< 0.500	2.03	350	623	2600
	TEL-2	Apr-14		158	312		1.22	< 0.150	1.42	378	554	2340
	TEL-2	Nov-14		250	300		1.4	< 0.02	1.3	390	580	2400
	TEL-3	Apr-12		601	63.6		3.17	< 1.00	4.26	42.2	1520	3090
	TEL-3	Oct-12		611	30.1		3.3	< 1.00	7.6	35.2	1440	2800
	TEL-3	Apr-13		616	49.1		2.54	< 1.00	6.29	61.6	1410	2950
	TEL-3	Oct-13		592	39.6		3.39	< 0.500	7.79	36	1370	2720
	TEL-3	Apr-14		573	127		3.06	< 0.150	7.6	143	1320	2900
	TEL-3	Nov-14		710	50		3.7	< 0.02	6.6	49	1600	2900
	TEL-4	Apr-12		331	567		0.78	< 1.00	0.53	255	657	3180
	TEL-4	Oct-12		311	479		1.21	< 1.00	0.618	351	995	3420
	TEL-4	Apr-13		278	504		0.872	< 1.00	0.479	316	860	3360
	TEL-4	Oct-13		397	545		1.29	< 0.500	0.64	549	2040	4940
	TEL-4	Apr-14		332	588		0.429	< 0.150	0.575	565	1480	4480
	TEL-4	Nov-14	FD	360	480		1.3	< 0.02	0.62 J	520	2100	4100
	TEL-4	Nov-14		380	440		1.9	< 0.02	0.62 J	530	1800	4200

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Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
TEL	MW-8	Apr-12		412	572		2.03	21.6	1.94	381	2830	5610
	MW-8	Oct-12		490	513		2.04	18.3	2.18	415	3120	5390
	MW-8	Apr-13		469	424		1.99	9.43	2.12	408	2630	5220
	MW-8	Oct-13		454	399		2.31	5.33	1.91	410	2590	4960
	MW-8	Apr-14		486	383		1.78	5.2	2.05	388	2710	5060
TMD	MW-16	Apr-12		459	358		2.44	< 1.00	8.3	381	2080	4110
	MW-16	Apr-13		503	346		2.04	< 1.00	9.42	363	2000	4710
	MW-16	Apr-14		531	422		2.79	0.269 J	8.99	388	2170	4020
	MW-20	Apr-12		450	327		2.7	< 1.00	0.419	254	2910	5260
	MW-20	Apr-13		479	347		2.27	1.29	< 0.400	237	2730	5020
	MW-20	Apr-14	FD	487	440		1.72	6.5	0.419	247	2700	4840
	MW-20	Apr-14		505	457		2.11	6.74	0.416	249	2580	4900
	MW-21	Apr-12		501	690		2.05	31.1	2	434	2770	5830
	MW-21	Oct-12		528	632		1.89	29.7	2.19	438	3100	5610
	MW-21	Apr-13		514	577		1.74	27.9	2.2	430	2830	5500
	MW-21	Oct-13	FD	562	524		2.08	17.5	1.74	475	2760	5550
	MW-21	Oct-13		529	522		2.08	19.3	1.87	449	2760	5580
	MW-21	Apr-14		510	537		1.7	22.6	0.491	97.1	2970	5560
	MW-21	Nov-14		600	450		2.4	17	1.9	430	2900	5200
	MW-25	Apr-12		260	744		1.25	< 1.00	2.94	427	1160	3170
	MW-25	Apr-13		325	776		1.36	< 1.00	3.7	469	1320	3120
	MW-25	Apr-14		985	4440		0.635	< 0.150	6.8	1220	2060	11700
	MW-26	Apr-12		493	429		1.99	< 1.00	4.24	393	2900	5250
	MW-26	Apr-13		497	378		1.83	< 1.00	4.86	352	2580	4720
	MW-26	Apr-14		718	953		2.16	0.252 J	6.01	662	4330	8280
	MW-27	Apr-12			160		1.32	< 1.00			1270	
	MW-27	Apr-12		374					9.35	142		2430
	MW-27	Apr-13		350	139		1.44	< 1.00	9.67	139	1320	2420
	MW-27	Apr-14		431	148		0.983	0.632 J	9.89	159	1600	2600
	MW-46R	Apr-12		453	238		1.88	< 1.00	1.03	171	2300	4120
	MW-46R	Oct-12		563	241		1.76	< 1.00	1.29	207	2380	4230
	MW-46R	Apr-13		503	231		1.56	< 1.00	1.6	194	2150	4180
	MW-46R	Oct-13		566	232		1.66	< 0.500	0.86	214	2060	3890
	MW-46R	Apr-14		592	191		1.61	0.394 J	1.56	165	2120	4540
	MW-46R	Nov-14		650	290		1.9	< 0.02	2.3	170	2300	3800
	MW-68	Apr-12		398	468		1.78	7.2	4.83	247	1440	3280
	MW-68	Apr-13		376	426		1.68	7.58	5.57	238	1380	3240
	MW-68	Apr-14		375	299		1.79	5.1	4.84	207	1330	2920
	MW-71	Apr-12		655	986	< 0.0200	1.47	53.3	3.51	477	2580	6270
	MW-71	Sep-12		783	995	< 0.0200	1.65	61.7	4.04	569	2590	6230
	MW-71	Apr-13	FD	626	937	< 0.0200	1.44	58.3	4.14	466	2610	6280
	MW-71	Apr-13		638	926	< 0.0200	1.49	59.5	3.92	443	2590	6600
	MW-71	Oct-13		656	1080	< 0.0200	1.49	52.3	3.76	472	2790	6250
	MW-71	Apr-14		558	887	< 0.00500	1.39	53.6	4.15	399	2740	6280

Table C.5 - Groundwater Analytical Results 2012-2014 - Water Quality Parameters
2014 Annual Groundwater Report
Navajo Refining, Artesia, New Mexico

Analyte:				Calcium	Chloride	Cyanide	Fluoride (F-, Anion)	Nitrate/Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids
Units:				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
CGWSL:				---	250	0.2	1.6	10	---	---	600	1000
CGWSL Source:					WQCC Dom	WQCC HH	WQCC HH	USEPA MCL			WQCC Dom	WQCC Dom
Location Name	Location	Date	Dup									
TMD	MW-89	Apr-12		536	230		2.96	1.4	10.7	191	1840	3420
	MW-89	Apr-13		456	200		2.48	< 1.00	9.81	150	1530	2960
	MW-89	Apr-14		542	248		2.4	1.34	10.5	188	2030	3360
	NP-1	Apr-12		502	516		1.92	13.1	5.02	397	2570	5350
	NP-1	Apr-13		477	486		1.83	12.9	5.64	366	2600	5040
	NP-1	Apr-14		439	434		1.82	11.6	4.95	352	2560	4820
	NP-2	Apr-13		517	379		1.7	1.74	1.63	258	2660	5160
Upgradient	UG-1	Apr-12		410	152	< 0.0200	0.797	7.19	1.85	72.7	1610	3090
	UG-1	Apr-13		466	132	< 0.0200	0.62	7.8	1.62	79.8	1580	3090
	UG-1	Apr-14		474	126	< 0.00500	0.58	10.1	1.59	79.6	1720	2960
	UG-2	Apr-12		322	157	< 0.0200	1.43	10.9	3.11	93.7	797	2180
	UG-2	Apr-13	FD	338	136	< 0.0200	1.13	4.59	2.52	117	1080	2400
	UG-2	Apr-13		331	137	< 0.0200	1.16	4.44	2.52	123	1090	2410
	UG-2	Apr-14		403	97.1	< 0.00500	1.14	3.77	1.75	104	1530	2660
	UG-3R	Apr-12	FD	348	23.8	< 0.0200	0.68	< 1.00	1.75	39.1	1050	1930
	UG-3R	Apr-12		341	23.8	< 0.0200	0.668	< 1.00	1.73	39.1	1050	1990
	UG-3R	Apr-13		270	20.9	< 0.0200	0.561	1.11	1.57	42	785	1590
	UG-3R	Apr-14	FD	389	46.8	< 0.00500	0.496	2.2	1.53	53.6	1500	2400
	UG-3R	Apr-14		422	46.8	< 0.00500	0.492	2.26	1.65	56.9	1480	2340



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July 22, 2014

Aaron Strange
Navajo Refining Company
PO Box 1490
Artesia, NM 88211-1490

Work Order: **HS14040122**

Revision: **3**

Laboratory Results for: **SA-Artesia Refinery-EP SA GW**

Dear Aaron,

ALS Environmental received 41 sample(s) on Apr 03, 2014 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

A handwritten signature in cursive script that reads 'Sonia West'.

Generated By: Dayna.Fisher
Sonia West
Project Manager

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Work Order: HS14040122

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040122-01	MW-72-0414	Water		01-Apr-2014 08:15	03-Apr-2014 09:15	☐
HS14040122-02	MW-72-0414-D	Water		01-Apr-2014 08:20	03-Apr-2014 09:15	☐
HS14040122-03	MW-73-0414	Water		01-Apr-2014 09:05	03-Apr-2014 09:15	☐
HS14040122-04	MW-73-0414-D	Water		01-Apr-2014 09:10	03-Apr-2014 09:15	☐
HS14040122-05	MW-74-0414	Water		01-Apr-2014 09:50	03-Apr-2014 09:15	☐
HS14040122-06	MW-74-0414-D	Water		01-Apr-2014 09:50	03-Apr-2014 09:15	☐
HS14040122-07	MW-75-0414	Water		01-Apr-2014 10:40	03-Apr-2014 09:15	☐
HS14040122-08	MW-75-0414-D	Water		01-Apr-2014 10:40	03-Apr-2014 09:15	☐
HS14040122-09	MW-77-0414	Water		01-Apr-2014 11:35	03-Apr-2014 09:15	☐
HS14040122-10	MW-77-0414-D	Water		01-Apr-2014 11:35	03-Apr-2014 09:15	☐
HS14040122-11	MW-78-0414	Water		01-Apr-2014 12:20	03-Apr-2014 09:15	☐
HS14040122-12	MW-78-0414-D	Water		01-Apr-2014 12:20	03-Apr-2014 09:15	☐
HS14040122-13	MW-76-0414	Water		01-Apr-2014 13:05	03-Apr-2014 09:15	☐
HS14040122-14	MW-76-0414-D	Water		01-Apr-2014 13:05	03-Apr-2014 09:15	☐
HS14040122-15	MW-83-0414	Water		01-Apr-2014 13:40	03-Apr-2014 09:15	☐
HS14040122-16	MW-83-0414-D	Water		01-Apr-2014 13:40	03-Apr-2014 09:15	☐
HS14040122-17	MW-84-0414	Water		01-Apr-2014 14:15	03-Apr-2014 09:15	☐
HS14040122-18	MW-84-0414-D	Water		01-Apr-2014 14:15	03-Apr-2014 09:15	☐
HS14040122-19	MW-82-0414	Water		01-Apr-2014 14:45	03-Apr-2014 09:15	☐
HS14040122-20	MW-82-0414-D	Water		01-Apr-2014 14:45	03-Apr-2014 09:15	☐
HS14040122-21	DUP-1-0414	Water		01-Apr-2014 00:00	03-Apr-2014 09:15	☐
HS14040122-22	DUP-1-0414-D	Water		01-Apr-2014 00:00	03-Apr-2014 09:15	☐
HS14040122-23	EB-1-0414	Water		01-Apr-2014 16:00	03-Apr-2014 09:15	☐
HS14040122-24	EB-1-0414-D	Water		01-Apr-2014 16:00	03-Apr-2014 09:15	☐
HS14040122-25	MW-79-0414	Water		02-Apr-2014 08:15	03-Apr-2014 09:15	☐
HS14040122-26	MW-79-0414-D	Water		02-Apr-2014 08:15	03-Apr-2014 09:15	☐
HS14040122-27	EB-2-0414	Water		02-Apr-2014 08:30	03-Apr-2014 09:15	☐

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Work Order: HS14040122

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040122-28	EB-2-0414-D	Water		02-Apr-2014 08:30	03-Apr-2014 09:15	☐
HS14040122-29	MW-80-0414	Water		02-Apr-2014 08:55	03-Apr-2014 09:15	☐
HS14040122-30	MW-80-0414-D	Water		02-Apr-2014 08:55	03-Apr-2014 09:15	☐
HS14040122-31	MW-81-0414	Water		02-Apr-2014 09:30	03-Apr-2014 09:15	☐
HS14040122-32	MW-81-0414-D	Water		02-Apr-2014 09:30	03-Apr-2014 09:15	☐
HS14040122-33	MW-2A-0414	Water		02-Apr-2014 10:05	03-Apr-2014 09:15	☐
HS14040122-34	MW-2A-0414-D	Water		02-Apr-2014 10:05	03-Apr-2014 09:15	☐
HS14040122-35	MW-122-0414	Water		02-Apr-2014 10:40	03-Apr-2014 09:15	☐
HS14040122-36	MW-122-0414-D	Water		02-Apr-2014 10:40	03-Apr-2014 09:15	☐
HS14040122-37	MW-121-0414	Water		02-Apr-2014 11:15	03-Apr-2014 09:15	☐
HS14040122-38	MW-121-0414-D	Water		02-Apr-2014 11:15	03-Apr-2014 09:15	☐
HS14040122-39	MW-120-0414	Water		02-Apr-2014 11:45	03-Apr-2014 09:15	☐
HS14040122-40	MW-120-0414-D	Water		02-Apr-2014 11:45	03-Apr-2014 09:15	☐
HS14040122-41	Trip Blank 032514-34	Water		02-Apr-2014 15:00	03-Apr-2014 09:15	☐

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Work Order: HS14040122

CASE NARRATIVE

This report was revised per client request to remove Magnesium analysis not requested. Please note the Dissolved Mercury for sample ID EB-2-0414-D was not analyzed due to laboratory error. In addition, revised EDD was issued to correct values not consistent with final report.

This report has been revised to change sample ID MW-121-0414 to MW-121-0414-D for ALS#HS14040122-38.

Batch R231336, TPH GRO by method 8015, Samples MW-77-0414, MW-78-0414, MW-83-0414 and MW-84-0414 were analyzed at a dilution due to matrix interference (foaming samples). The lowest possible dilution was analyzed.

Batch 80439, TPH DRO by method 8015, Sample MW-73-0414 (HS14040122-03C): Surrogate recovery was outside of the control limits due to matrix interference.

Batch 80439, TPH DRO by method 8015, Sample MW-74-0414 (HS14040122-05C): Surrogate recovery was diluted out in the 10 x dilution.

Batch 80439, TPH DRO by method 8015, Sample MW-75-0414 (HS14040122-07C): Surrogate recovery was outside of the control limits due to matrix interference.

Batch 80439, TPH DRO by method 8015, Sample HS14040122-09C: Surrogate recovery was diluted out in the 20 x dilution.

Batch 80439, TPH DRO by method 8015, Sample MW-78-0414 (HS14040122-11C): Surrogate recovery was diluted out in the 10 x dilution.

Batch 80439, TPH DRO by method 8015, Sample MW-76-0414 (HS14040122-13C): Surrogate recovery was outside of the control limits due to matrix interference.

Batch 80439, TPH DRO by method 8015, Sample MW-83-0414 (HS14040122-15C): Surrogate recovery was diluted out in the 10 x dilution.

Batch 80439, TPH DRO by method 8015, Sample MW-84-0414 (HS14040122-17C): Surrogate recovery was diluted out in the 10 x dilution.

Batch 80439, TPH DRO by method 8015, Sample MW-82-0414 (HS14040122-19C): Surrogate recovery was outside of the control limits due to matrix interference.

Batch 80439, TPH DRO by method 8015, Sample DUP-1-0414 (HS14040122-21C): Surrogate recovery was outside of the control limits due to matrix interference.

Batch 80540, Total Metals by method 6020, Sample MW-72-0414 (HS14040122-01D): MS and/or MSD recoveries were outside of the control limits for several elements due to matrix interference.

Batch 80540, Dissolved Metals by method 6020, Sample MW-72-0414-D (HS14040122-02A): MS and/or MSD recoveries were outside of the control limits for several elements due to matrix interference.

Batch R231275, Volatile Organics by method 8260, Sample MW-72-0414 (HS14040122-01A): MS and/or MSD recoveries were outside of the control limits due to matrix interference.

Batch 80540, Total Metals by method 6020, Samples were reported as ND at a dilution due to matrix interference from non-target analytes. The lowest possible dilution was analyzed.

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Work Order: HS14040122

CASE NARRATIVE

Batch 80673, Dissolved Metals by method 6020, Samples were reported as ND at a dilution due to matrix interference from non-target analytes. The lowest possible dilution was analyzed.

Batch R231301, Volatile Organics by method 8260, Sample MW-121-0414 (HS14040122-37A): MS and/or MSD recoveries were outside of the control limits for Acetone. The MSD RPD was outside of the control limits.

Batch R231532, TDS by method SM2540C, Sample HS14040068-01G: Dup was for an unrelated sample.

Batch R231649, TDS by method SM2540C, Sample MW-122-0414 (HS14040122-35E): DUP RPD was outside of the control limits.

Batch R232066, Anions by method 300.0, Sample MW-121-0414 (HS14040122-37E): MS/MSD recoveries were outside of the control limits due to matrix interference for Chloride, Fluoride and Sulfate.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-72-0414
 Collection Date: 01-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 13:46
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 13:46
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 13:46
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
2-Butanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 13:46
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 13:46
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 13:46
Acetone	U		0.0020	0.010	mg/L	1	04-Apr-2014 13:46
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 13:46
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 13:46
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 13:46
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 13:46
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 13:46
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 13:46
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 13:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-72-0414
 Collection Date: 01-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 13:46
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 13:46
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 13:46
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 13:46
Surr: 1,2-Dichloroethane-d4	90.9			70-125	%REC	1	04-Apr-2014 13:46
Surr: 4-Bromofluorobenzene	98.9			72-125	%REC	1	04-Apr-2014 13:46
Surr: Dibromofluoromethane	92.4			71-125	%REC	1	04-Apr-2014 13:46
Surr: Toluene-d8	98.7			75-125	%REC	1	04-Apr-2014 13:46
ICP-MS METALS SW6020A		Method:SW6020		Prep:SW3010A / 10-Apr-2014 Analyst: ALR			
Arsenic	0.0480		0.00100	0.00500	mg/L	1	13-Apr-2014 01:29
Barium	0.0154		0.000900	0.00500	mg/L	1	13-Apr-2014 01:29
Calcium	795		3.35	25.0	mg/L	50	14-Apr-2014 15:08
Chromium	U		0.00100	0.00500	mg/L	1	13-Apr-2014 01:29
Iron	7.13		0.0500	0.200	mg/L	1	13-Apr-2014 01:29
Lead	U		0.000700	0.00500	mg/L	1	13-Apr-2014 01:29
Manganese	5.69		0.125	0.250	mg/L	50	14-Apr-2014 15:08
Potassium	9.87		0.0500	0.200	mg/L	1	13-Apr-2014 01:29
Selenium	U		0.00100	0.00500	mg/L	1	13-Apr-2014 01:29
Sodium	2,440		2.50	10.0	mg/L	50	14-Apr-2014 15:08
GASOLINE RANGE ORGANICS - SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	0.0920		0.0100	0.0500	mg/L	1	07-Apr-2014 13:57
Surr: 4-Bromofluorobenzene	106			70-130	%REC	1	07-Apr-2014 13:57
TOTAL DISSOLVED SOLIDS		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	10,300		5.00	10.0	mg/L	1	08-Apr-2014 17:46
ANIONS - EPA 300.0 (1993)		Method:E300		Analyst: JKP			
Chloride	4,350		10.0	25.0	mg/L	50	17-Apr-2014 02:41
Fluoride	6.27		0.0500	0.100	mg/L	1	15-Apr-2014 22:08
Nitrate/Nitrite (as N)	3.10		0.150	0.500	mg/L	5	16-Apr-2014 04:55
Sulfate	3,020		10.0	25.0	mg/L	50	17-Apr-2014 02:41
TPH DRO/ORO 8015C		Method:SW8015M		Prep:SW3511 / 07-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	0.76		0.021	0.052	mg/L	1	09-Apr-2014 13:11
Surr: 2-Fluorobiphenyl	122			60-135	%REC	1	09-Apr-2014 13:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-72-0414-D
Collection Date: 01-Apr-2014 08:20

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0258		0.00500	0.0250	mg/L	5	15-Apr-2014 17:16
Barium	0.0146	J	0.00450	0.0250	mg/L	5	15-Apr-2014 17:16
Chromium	U		0.00500	0.0250	mg/L	5	15-Apr-2014 17:16
Iron	3.89		0.390	1.00	mg/L	5	15-Apr-2014 17:16
Lead	U		0.00350	0.0250	mg/L	5	15-Apr-2014 17:16
Manganese	5.16		0.125	0.250	mg/L	50	15-Apr-2014 15:26
Selenium	U		0.00500	0.0250	mg/L	5	15-Apr-2014 17:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-73-0414
 Collection Date: 01-Apr-2014 09:05

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:10
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
1,2,4-Trimethylbenzene	0.0021	J	0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:10
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 14:10
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
2-Butanone	0.0028	J	0.0010	0.010	mg/L	1	04-Apr-2014 14:10
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 14:10
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 14:10
Acetone	0.0092	J	0.0020	0.010	mg/L	1	04-Apr-2014 14:10
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 14:10
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:10
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 14:10
Methyl tert-butyl ether	0.0016	J	0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 14:10
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 14:10
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 14:10
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-73-0414
 Collection Date: 01-Apr-2014 09:05

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:10
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:10
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 14:10
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 14:10
Surr: 1,2-Dichloroethane-d4	92.2			70-125	%REC	1	04-Apr-2014 14:10
Surr: 4-Bromofluorobenzene	100			72-125	%REC	1	04-Apr-2014 14:10
Surr: Dibromofluoromethane	91.3			71-125	%REC	1	04-Apr-2014 14:10
Surr: Toluene-d8	100			75-125	%REC	1	04-Apr-2014 14:10
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0982		0.00500	0.0250	mg/L	5	14-Apr-2014 21:05
Barium	0.0132	J	0.00450	0.0250	mg/L	5	14-Apr-2014 21:05
Calcium	590		3.35	25.0	mg/L	50	14-Apr-2014 16:38
Chromium	U		0.00500	0.0250	mg/L	5	14-Apr-2014 21:05
Iron	5.71		0.250	1.00	mg/L	5	14-Apr-2014 21:05
Lead	U		0.00350	0.0250	mg/L	5	14-Apr-2014 21:05
Manganese	2.77		0.125	0.250	mg/L	50	14-Apr-2014 16:38
Potassium	2.54		0.250	1.00	mg/L	5	14-Apr-2014 21:05
Selenium	U		0.00500	0.0250	mg/L	5	14-Apr-2014 21:05
Sodium	2,160		2.50	10.0	mg/L	50	14-Apr-2014 16:38
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.985		0.0100	0.0500	mg/L	1	07-Apr-2014 14:15
Surr: 4-Bromofluorobenzene	112			70-130	%REC	1	07-Apr-2014 14:15
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	9,120		5.00	10.0	mg/L	1	08-Apr-2014 17:46
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	2,260		10.0	25.0	mg/L	50	17-Apr-2014 03:05
Fluoride	2.09		0.0500	0.100	mg/L	1	15-Apr-2014 22:22
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 05:10
Sulfate	3,510		10.0	25.0	mg/L	50	17-Apr-2014 03:05
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	4.8		0.020	0.051	mg/L	1	09-Apr-2014 13:37
Surr: 2-Fluorobiphenyl	180	S		60-135	%REC	1	09-Apr-2014 13:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-73-0414-D
Collection Date: 01-Apr-2014 09:10

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0986		0.00500	0.0250	mg/L	5	15-Apr-2014 18:06
Barium	0.0102	J	0.00450	0.0250	mg/L	5	15-Apr-2014 18:06
Chromium	U		0.00500	0.0250	mg/L	5	15-Apr-2014 18:06
Iron	4.67		0.390	1.00	mg/L	5	15-Apr-2014 18:06
Lead	U		0.00350	0.0250	mg/L	5	15-Apr-2014 18:06
Manganese	2.62		0.0125	0.0250	mg/L	5	15-Apr-2014 18:06
Selenium	U		0.00500	0.0250	mg/L	5	15-Apr-2014 18:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-74-0414
 Collection Date: 01-Apr-2014 09:50

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:36
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
1,2,4-Trimethylbenzene	0.0019	J	0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:36
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 14:36
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
2-Butanone	0.0036	J	0.0010	0.010	mg/L	1	04-Apr-2014 14:36
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 14:36
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 14:36
Acetone	0.0020		0.0020	0.010	mg/L	1	04-Apr-2014 14:36
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 14:36
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:36
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 14:36
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 14:36
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 14:36
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 14:36
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-74-0414
 Collection Date: 01-Apr-2014 09:50

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:36
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:36
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 14:36
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 14:36
Surr: 1,2-Dichloroethane-d4	89.1			70-125	%REC	1	04-Apr-2014 14:36
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	04-Apr-2014 14:36
Surr: Dibromofluoromethane	91.9			71-125	%REC	1	04-Apr-2014 14:36
Surr: Toluene-d8	98.8			75-125	%REC	1	04-Apr-2014 14:36
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0599		0.00500	0.0250	mg/L	5	14-Apr-2014 21:10
Barium	0.0137	J	0.00450	0.0250	mg/L	5	14-Apr-2014 21:10
Calcium	656		3.35	25.0	mg/L	50	14-Apr-2014 16:43
Chromium	U		0.00500	0.0250	mg/L	5	14-Apr-2014 21:10
Iron	U		0.250	1.00	mg/L	5	14-Apr-2014 21:10
Lead	U		0.00350	0.0250	mg/L	5	14-Apr-2014 21:10
Manganese	1.18		0.125	0.250	mg/L	50	14-Apr-2014 16:43
Potassium	45.6		0.250	1.00	mg/L	5	14-Apr-2014 21:10
Selenium	0.193		0.00500	0.0250	mg/L	5	14-Apr-2014 21:10
Sodium	2,250		2.50	10.0	mg/L	50	14-Apr-2014 16:43
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	1.09		0.0100	0.0500	mg/L	1	07-Apr-2014 14:33
Surr: 4-Bromofluorobenzene	112			70-130	%REC	1	07-Apr-2014 14:33
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	8,940		5.00	10.0	mg/L	1	08-Apr-2014 17:46
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	1,970		10.0	25.0	mg/L	50	17-Apr-2014 03:30
Fluoride	8.66		0.0500	0.100	mg/L	1	15-Apr-2014 22:37
Nitrate/Nitrite (as N)	67.0		0.150	0.500	mg/L	5	16-Apr-2014 05:24
Sulfate	4,050		10.0	25.0	mg/L	50	17-Apr-2014 03:30
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	28		0.20	0.51	mg/L	10	10-Apr-2014 12:27
Surr: 2-Fluorobiphenyl	0	JS		60-135	%REC	10	10-Apr-2014 12:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-74-0414-D
Collection Date: 01-Apr-2014 09:50

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0606		0.00500	0.0250	mg/L	5	15-Apr-2014 18:11
Barium	0.0121	J	0.00450	0.0250	mg/L	5	15-Apr-2014 18:11
Chromium	U		0.00500	0.0250	mg/L	5	15-Apr-2014 18:11
Iron	U		0.390	1.00	mg/L	5	15-Apr-2014 18:11
Lead	U		0.00350	0.0250	mg/L	5	15-Apr-2014 18:11
Manganese	1.07		0.0125	0.0250	mg/L	5	15-Apr-2014 18:11
Selenium	0.162		0.00500	0.0250	mg/L	5	15-Apr-2014 18:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-75-0414
 Collection Date: 01-Apr-2014 10:40

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:58
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:58
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 14:58
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
2-Butanone	0.0064	J	0.0010	0.010	mg/L	1	04-Apr-2014 14:58
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 14:58
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 14:58
Acetone	0.043		0.0020	0.010	mg/L	1	04-Apr-2014 14:58
Benzene	0.0011	J	0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 14:58
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:58
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 14:58
Methyl tert-butyl ether	0.0047	J	0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 14:58
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 14:58
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 14:58
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 14:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-75-0414
 Collection Date: 01-Apr-2014 10:40

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 14:58
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 14:58
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 14:58
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 14:58
Surr: 1,2-Dichloroethane-d4	90.7			70-125	%REC	1	04-Apr-2014 14:58
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	04-Apr-2014 14:58
Surr: Dibromofluoromethane	91.8			71-125	%REC	1	04-Apr-2014 14:58
Surr: Toluene-d8	100.0			75-125	%REC	1	04-Apr-2014 14:58
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.299		0.00200	0.0100	mg/L	2	14-Apr-2014 21:15
Barium	0.0166		0.00180	0.0100	mg/L	2	14-Apr-2014 21:15
Calcium	379		3.35	25.0	mg/L	50	14-Apr-2014 16:48
Chromium	0.00221	J	0.00200	0.0100	mg/L	2	14-Apr-2014 21:15
Iron	4.01		0.100	0.400	mg/L	2	14-Apr-2014 21:15
Lead	U		0.00140	0.0100	mg/L	2	14-Apr-2014 21:15
Manganese	1.10		0.125	0.250	mg/L	50	14-Apr-2014 16:48
Potassium	21.4		0.100	0.400	mg/L	2	14-Apr-2014 21:15
Selenium	0.00288	J	0.00200	0.0100	mg/L	2	14-Apr-2014 21:15
Sodium	1,550		2.50	10.0	mg/L	50	14-Apr-2014 16:48
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	1.66		0.0100	0.0500	mg/L	1	07-Apr-2014 14:51
Surr: 4-Bromofluorobenzene	113			70-130	%REC	1	07-Apr-2014 14:51
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	6,180		5.00	10.0	mg/L	1	08-Apr-2014 17:46
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	1,610		10.0	25.0	mg/L	50	17-Apr-2014 03:54
Fluoride	8.37		0.0500	0.100	mg/L	1	15-Apr-2014 22:52
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 05:39
Sulfate	1,930		10.0	25.0	mg/L	50	17-Apr-2014 03:54
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	9.0		0.11	0.27	mg/L	5	10-Apr-2014 12:53
Surr: 2-Fluorobiphenyl	233	S		60-135	%REC	5	10-Apr-2014 12:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-75-0414-D
Collection Date: 01-Apr-2014 10:40

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.152		0.00200	0.0100	mg/L	2	15-Apr-2014 18:16
Barium	0.0155		0.00180	0.0100	mg/L	2	15-Apr-2014 18:16
Chromium	U		0.00200	0.0100	mg/L	2	15-Apr-2014 18:16
Iron	0.719		0.156	0.400	mg/L	2	15-Apr-2014 18:16
Lead	U		0.00140	0.0100	mg/L	2	15-Apr-2014 18:16
Manganese	1.03		0.00500	0.0100	mg/L	2	15-Apr-2014 18:16
Selenium	0.00292	J	0.00200	0.0100	mg/L	2	15-Apr-2014 18:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-77-0414
 Collection Date: 01-Apr-2014 11:35

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 15:22
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
1,2,4-Trimethylbenzene	0.0019	J	0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 15:22
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 15:22
1,3,5-Trimethylbenzene	0.0019	J	0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
2-Butanone	0.0066	J	0.0010	0.010	mg/L	1	04-Apr-2014 15:22
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 15:22
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 15:22
Acetone	0.041		0.0020	0.010	mg/L	1	04-Apr-2014 15:22
Benzene	0.0020	J	0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 15:22
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 15:22
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
Ethylbenzene	0.0016	J	0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
m,p-Xylene	0.0027	J	0.00060	0.010	mg/L	1	04-Apr-2014 15:22
Methyl tert-butyl ether	0.0069		0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 15:22
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 15:22
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 15:22
n-Propylbenzene	0.0028	J	0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
Toluene	0.0011	J	0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 15:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-77-0414
 Collection Date: 01-Apr-2014 11:35

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 15:22
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 15:22
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 15:22
Xylenes, Total	0.0027	J	0.0015	0.015	mg/L	1	04-Apr-2014 15:22
Surr: 1,2-Dichloroethane-d4	91.4			70-125	%REC	1	04-Apr-2014 15:22
Surr: 4-Bromofluorobenzene	99.9			72-125	%REC	1	04-Apr-2014 15:22
Surr: Dibromofluoromethane	92.1			71-125	%REC	1	04-Apr-2014 15:22
Surr: Toluene-d8	98.1			75-125	%REC	1	04-Apr-2014 15:22
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0765		0.00200	0.0100	mg/L	2	14-Apr-2014 21:25
Barium	0.0138		0.000900	0.00500	mg/L	1	13-Apr-2014 03:34
Calcium	627		3.35	25.0	mg/L	50	14-Apr-2014 16:53
Chromium	0.00884	J	0.00200	0.0100	mg/L	2	14-Apr-2014 21:25
Iron	9.80		0.100	0.400	mg/L	2	14-Apr-2014 21:25
Lead	U		0.000700	0.00500	mg/L	1	13-Apr-2014 03:34
Manganese	1.06		0.125	0.250	mg/L	50	14-Apr-2014 16:53
Potassium	72.1		0.0500	0.200	mg/L	1	13-Apr-2014 03:34
Selenium	0.0113		0.00200	0.0100	mg/L	2	14-Apr-2014 21:25
Sodium	1,540		2.50	10.0	mg/L	50	14-Apr-2014 16:53
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	1.13		0.100	0.500	mg/L	10	07-Apr-2014 18:02
Surr: 4-Bromofluorobenzene	104			70-130	%REC	10	07-Apr-2014 18:02
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	8,060		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	781		10.0	25.0	mg/L	50	17-Apr-2014 04:18
Fluoride	3.50		0.0500	0.100	mg/L	1	15-Apr-2014 23:06
Nitrate/Nitrite (as N)	2.85		0.150	0.500	mg/L	5	16-Apr-2014 05:53
Sulfate	3,390		10.0	25.0	mg/L	50	17-Apr-2014 04:18
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	39		0.41	1.0	mg/L	20	10-Apr-2014 13:19
Surr: 2-Fluorobiphenyl	0	JS		60-135	%REC	20	10-Apr-2014 13:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-77-0414-D
Collection Date: 01-Apr-2014 11:35

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0670		0.00200	0.0100	mg/L	2	15-Apr-2014 18:26
Barium	0.0110		0.00180	0.0100	mg/L	2	15-Apr-2014 18:26
Chromium	0.00747	J	0.00200	0.0100	mg/L	2	15-Apr-2014 18:26
Iron	7.09		0.156	0.400	mg/L	2	15-Apr-2014 18:26
Lead	0.00176	J	0.00140	0.0100	mg/L	2	15-Apr-2014 18:26
Manganese	0.909		0.00500	0.0100	mg/L	2	15-Apr-2014 18:26
Selenium	0.0123		0.00200	0.0100	mg/L	2	15-Apr-2014 18:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-78-0414
 Collection Date: 01-Apr-2014 12:20

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 21:42
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 21:42
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 21:42
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
2-Butanone	0.011		0.0010	0.010	mg/L	1	04-Apr-2014 21:42
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 21:42
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 21:42
Acetone	0.070		0.0020	0.010	mg/L	1	04-Apr-2014 21:42
Benzene	0.0031	J	0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 21:42
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 21:42
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
Ethylbenzene	0.0013	J	0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 21:42
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 21:42
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 21:42
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 21:42
n-Propylbenzene	0.0018	J	0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
o-Xylene	0.0021	J	0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
Toluene	0.0014	J	0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 21:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-78-0414
 Collection Date: 01-Apr-2014 12:20

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:42
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:42
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 21:42
Xylenes, Total	0.0021	J	0.0015	0.015	mg/L	1	04-Apr-2014 21:42
Surr: 1,2-Dichloroethane-d4	89.9			70-125	%REC	1	04-Apr-2014 21:42
Surr: 4-Bromofluorobenzene	98.0			72-125	%REC	1	04-Apr-2014 21:42
Surr: Dibromofluoromethane	90.8			71-125	%REC	1	04-Apr-2014 21:42
Surr: Toluene-d8	98.7			75-125	%REC	1	04-Apr-2014 21:42
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0217		0.00100	0.00500	mg/L	1	13-Apr-2014 03:39
Barium	0.0388		0.000900	0.00500	mg/L	1	13-Apr-2014 03:39
Calcium	542		0.670	5.00	mg/L	10	14-Apr-2014 16:58
Chromium	0.0476		0.00100	0.00500	mg/L	1	13-Apr-2014 03:39
Iron	7.58		0.0500	0.200	mg/L	1	13-Apr-2014 03:39
Lead	0.00107	J	0.000700	0.00500	mg/L	1	13-Apr-2014 03:39
Manganese	1.46		0.0250	0.0500	mg/L	10	14-Apr-2014 16:58
Potassium	25.2		0.0500	0.200	mg/L	1	13-Apr-2014 03:39
Selenium	0.0105		0.00100	0.00500	mg/L	1	13-Apr-2014 03:39
Sodium	524		0.500	2.00	mg/L	10	14-Apr-2014 16:58
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.333	J	0.100	0.500	mg/L	10	07-Apr-2014 18:20
Surr: 4-Bromofluorobenzene	102			70-130	%REC	10	07-Apr-2014 18:20
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,760		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	215		10.0	25.0	mg/L	50	17-Apr-2014 04:42
Fluoride	10.9		0.0500	0.100	mg/L	1	15-Apr-2014 23:21
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 06:08
Sulfate	2,650		10.0	25.0	mg/L	50	17-Apr-2014 04:42
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	29		0.21	0.52	mg/L	10	10-Apr-2014 13:45
Surr: 2-Fluorobiphenyl	0	JS		60-135	%REC	10	10-Apr-2014 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-78-0414-D
Collection Date: 01-Apr-2014 12:20

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0145		0.00100	0.00500	mg/L	1	15-Apr-2014 18:31
Barium	0.0278		0.000900	0.00500	mg/L	1	15-Apr-2014 18:31
Chromium	0.0363		0.00100	0.00500	mg/L	1	15-Apr-2014 18:31
Iron	4.70		0.0780	0.200	mg/L	1	15-Apr-2014 18:31
Lead	U		0.000700	0.00500	mg/L	1	15-Apr-2014 18:31
Manganese	1.60		0.00250	0.00500	mg/L	1	15-Apr-2014 18:31
Selenium	0.00708		0.00100	0.00500	mg/L	1	15-Apr-2014 18:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-76-0414
 Collection Date: 01-Apr-2014 13:05

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:06
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:06
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 19:06
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
2-Butanone	0.0038	J	0.0010	0.010	mg/L	1	04-Apr-2014 19:06
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:06
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:06
Acetone	0.019		0.0020	0.010	mg/L	1	04-Apr-2014 19:06
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 19:06
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:06
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 19:06
Methyl tert-butyl ether	0.0037	J	0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:06
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 19:06
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 19:06
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-76-0414
 Collection Date: 01-Apr-2014 13:05

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:06
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:06
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 19:06
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 19:06
Surr: 1,2-Dichloroethane-d4	88.9			70-125	%REC	1	04-Apr-2014 19:06
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	04-Apr-2014 19:06
Surr: Dibromofluoromethane	91.1			71-125	%REC	1	04-Apr-2014 19:06
Surr: Toluene-d8	101			75-125	%REC	1	04-Apr-2014 19:06
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0712		0.00100	0.00500	mg/L	1	13-Apr-2014 03:44
Barium	0.0151		0.000900	0.00500	mg/L	1	13-Apr-2014 03:44
Calcium	470		0.670	5.00	mg/L	10	14-Apr-2014 17:03
Chromium	0.00181	J	0.00100	0.00500	mg/L	1	13-Apr-2014 03:44
Iron	4.00		0.0500	0.200	mg/L	1	13-Apr-2014 03:44
Lead	U		0.000700	0.00500	mg/L	1	13-Apr-2014 03:44
Manganese	1.06		0.0250	0.0500	mg/L	10	14-Apr-2014 17:03
Potassium	30.0		0.0500	0.200	mg/L	1	13-Apr-2014 03:44
Selenium	0.00301	J	0.00100	0.00500	mg/L	1	13-Apr-2014 03:44
Sodium	980		0.500	2.00	mg/L	10	14-Apr-2014 17:03
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.856		0.0100	0.0500	mg/L	1	07-Apr-2014 15:18
Surr: 4-Bromofluorobenzene	112			70-130	%REC	1	07-Apr-2014 15:18
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	4,980		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	1,200		10.0	25.0	mg/L	50	17-Apr-2014 05:06
Fluoride	3.16		0.0500	0.100	mg/L	1	15-Apr-2014 23:35
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 06:23
Sulfate	1,730		10.0	25.0	mg/L	50	17-Apr-2014 05:06
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	4.6		0.10	0.26	mg/L	5	10-Apr-2014 14:11
Surr: 2-Fluorobiphenyl	136	S		60-135	%REC	5	10-Apr-2014 14:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-76-0414-D
Collection Date: 01-Apr-2014 13:05

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0521		0.00100	0.00500	mg/L	1	15-Apr-2014 18:46
Barium	0.0128		0.000900	0.00500	mg/L	1	15-Apr-2014 18:46
Chromium	0.00128	J	0.00100	0.00500	mg/L	1	15-Apr-2014 18:46
Iron	2.95		0.0780	0.200	mg/L	1	15-Apr-2014 18:46
Lead	U		0.000700	0.00500	mg/L	1	15-Apr-2014 18:46
Manganese	1.00		0.00250	0.00500	mg/L	1	15-Apr-2014 18:46
Selenium	0.00139	J	0.00100	0.00500	mg/L	1	15-Apr-2014 18:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-83-0414
 Collection Date: 01-Apr-2014 13:40

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-15
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 22:08
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 22:08
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 22:08
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
2-Butanone	0.0033	J	0.0010	0.010	mg/L	1	04-Apr-2014 22:08
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 22:08
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 22:08
Acetone	0.021		0.0020	0.010	mg/L	1	04-Apr-2014 22:08
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 22:08
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 22:08
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 22:08
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 22:08
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 22:08
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 22:08
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 22:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-83-0414
 Collection Date: 01-Apr-2014 13:40

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-15
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:08
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:08
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 22:08
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 22:08
Surr: 1,2-Dichloroethane-d4	90.8			70-125	%REC	1	04-Apr-2014 22:08
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	04-Apr-2014 22:08
Surr: Dibromofluoromethane	92.8			71-125	%REC	1	04-Apr-2014 22:08
Surr: Toluene-d8	100			75-125	%REC	1	04-Apr-2014 22:08
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0388		0.00100	0.00500	mg/L	1	13-Apr-2014 03:49
Barium	0.0197		0.000900	0.00500	mg/L	1	13-Apr-2014 03:49
Calcium	484		0.670	5.00	mg/L	10	14-Apr-2014 17:08
Chromium	0.00430	J	0.00100	0.00500	mg/L	1	13-Apr-2014 03:49
Iron	4.65		0.0500	0.200	mg/L	1	13-Apr-2014 03:49
Lead	0.000914	J	0.000700	0.00500	mg/L	1	14-Apr-2014 21:30
Manganese	0.986		0.0250	0.0500	mg/L	10	14-Apr-2014 17:08
Potassium	53.8		0.0500	0.200	mg/L	1	13-Apr-2014 03:49
Selenium	0.00977		0.00100	0.00500	mg/L	1	13-Apr-2014 03:49
Sodium	616		0.500	2.00	mg/L	10	14-Apr-2014 17:08
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.489	J	0.100	0.500	mg/L	10	07-Apr-2014 18:38
Surr: 4-Bromofluorobenzene	101			70-130	%REC	10	07-Apr-2014 18:38
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	7,400		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	271		10.0	25.0	mg/L	50	17-Apr-2014 05:30
Fluoride	4.58		0.0500	0.100	mg/L	1	15-Apr-2014 23:50
Nitrate/Nitrite (as N)	4.54		0.150	0.500	mg/L	5	16-Apr-2014 06:37
Sulfate	3,920		10.0	25.0	mg/L	50	17-Apr-2014 05:30
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	20		0.20	0.51	mg/L	10	10-Apr-2014 14:37
Surr: 2-Fluorobiphenyl	0	JS		60-135	%REC	10	10-Apr-2014 14:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-83-0414-D
Collection Date: 01-Apr-2014 13:40

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0292		0.00100	0.00500	mg/L	1	15-Apr-2014 18:51
Barium	0.0171		0.000900	0.00500	mg/L	1	15-Apr-2014 18:51
Chromium	0.00271	J	0.00100	0.00500	mg/L	1	15-Apr-2014 18:51
Iron	2.60		0.0780	0.200	mg/L	1	15-Apr-2014 18:51
Lead	U		0.000700	0.00500	mg/L	1	15-Apr-2014 18:51
Manganese	0.977		0.00250	0.00500	mg/L	1	15-Apr-2014 18:51
Selenium	0.00741		0.00100	0.00500	mg/L	1	15-Apr-2014 18:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-84-0414
 Collection Date: 01-Apr-2014 14:15

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-17
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 22:34
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 22:34
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 22:34
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
2-Butanone	0.0054	J	0.0010	0.010	mg/L	1	04-Apr-2014 22:34
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 22:34
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 22:34
Acetone	0.043		0.0020	0.010	mg/L	1	04-Apr-2014 22:34
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 22:34
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 22:34
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 22:34
Methyl tert-butyl ether	0.0020	J	0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 22:34
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 22:34
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 22:34
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 22:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-84-0414
 Collection Date: 01-Apr-2014 14:15

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-17
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 22:34
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 22:34
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 22:34
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 22:34
Surr: 1,2-Dichloroethane-d4	91.6			70-125	%REC	1	04-Apr-2014 22:34
Surr: 4-Bromofluorobenzene	98.1			72-125	%REC	1	04-Apr-2014 22:34
Surr: Dibromofluoromethane	93.6			71-125	%REC	1	04-Apr-2014 22:34
Surr: Toluene-d8	98.5			75-125	%REC	1	04-Apr-2014 22:34
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.114		0.00200	0.0100	mg/L	2	14-Apr-2014 21:35
Barium	0.0144		0.000900	0.00500	mg/L	1	13-Apr-2014 03:54
Calcium	698		3.35	25.0	mg/L	50	14-Apr-2014 19:47
Chromium	0.00416	J	0.00200	0.0100	mg/L	2	14-Apr-2014 21:35
Iron	3.21		0.100	0.400	mg/L	2	14-Apr-2014 21:35
Lead	U		0.000700	0.00500	mg/L	1	13-Apr-2014 03:54
Manganese	3.58		0.125	0.250	mg/L	50	14-Apr-2014 19:47
Potassium	8.80		0.0500	0.200	mg/L	1	13-Apr-2014 03:54
Selenium	0.00577	J	0.00200	0.0100	mg/L	2	14-Apr-2014 21:35
Sodium	1,750		2.50	10.0	mg/L	50	14-Apr-2014 19:47
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.607		0.100	0.500	mg/L	10	07-Apr-2014 18:56
Surr: 4-Bromofluorobenzene	102			70-130	%REC	10	07-Apr-2014 18:56
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	10,500		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	1,620		10.0	25.0	mg/L	50	17-Apr-2014 06:43
Fluoride	6.07		0.0500	0.100	mg/L	1	16-Apr-2014 00:33
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 06:52
Sulfate	3,660		10.0	25.0	mg/L	50	17-Apr-2014 06:43
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	27		0.21	0.52	mg/L	10	10-Apr-2014 15:03
Surr: 2-Fluorobiphenyl	0	JS		60-135	%REC	10	10-Apr-2014 15:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-84-0414-D
Collection Date: 01-Apr-2014 14:15

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-18
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0779		0.00200	0.0100	mg/L	2	15-Apr-2014 18:56
Barium	0.0127		0.00180	0.0100	mg/L	2	15-Apr-2014 18:56
Chromium	0.00293	J	0.00200	0.0100	mg/L	2	15-Apr-2014 18:56
Iron	0.324	J	0.156	0.400	mg/L	2	15-Apr-2014 18:56
Lead	U		0.00140	0.0100	mg/L	2	15-Apr-2014 18:56
Manganese	3.28		0.00500	0.0100	mg/L	2	15-Apr-2014 18:56
Selenium	0.00690	J	0.00200	0.0100	mg/L	2	15-Apr-2014 18:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-82-0414
 Collection Date: 01-Apr-2014 14:45

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-19
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 18:15
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 18:15
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 18:15
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
2-Butanone	0.0037	J	0.0010	0.010	mg/L	1	04-Apr-2014 18:15
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 18:15
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 18:15
Acetone	0.015		0.0020	0.010	mg/L	1	04-Apr-2014 18:15
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 18:15
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 18:15
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 18:15
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 18:15
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 18:15
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 18:15
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 18:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-82-0414
 Collection Date: 01-Apr-2014 14:45

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-19
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:15
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:15
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 18:15
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 18:15
Surr: 1,2-Dichloroethane-d4	91.0			70-125	%REC	1	04-Apr-2014 18:15
Surr: 4-Bromofluorobenzene	99.1			72-125	%REC	1	04-Apr-2014 18:15
Surr: Dibromofluoromethane	93.2			71-125	%REC	1	04-Apr-2014 18:15
Surr: Toluene-d8	98.9			75-125	%REC	1	04-Apr-2014 18:15
ICP-MS METALS SW6020A		Method:SW6020		Prep:SW3010A / 10-Apr-2014 Analyst: ALR			
Arsenic	0.133		0.00200	0.0100	mg/L	2	14-Apr-2014 23:09
Barium	0.0210		0.000900	0.00500	mg/L	1	13-Apr-2014 04:19
Calcium	279		3.35	25.0	mg/L	50	14-Apr-2014 19:52
Chromium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:09
Iron	3.06		0.100	0.400	mg/L	2	14-Apr-2014 23:09
Lead	0.000773	J	0.000700	0.00500	mg/L	1	13-Apr-2014 04:19
Manganese	1.33		0.00500	0.0100	mg/L	2	14-Apr-2014 23:09
Potassium	9.55		0.0500	0.200	mg/L	1	13-Apr-2014 04:19
Selenium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:09
Sodium	1,800		2.50	10.0	mg/L	50	14-Apr-2014 19:52
GASOLINE RANGE ORGANICS - SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	0.611		0.0100	0.0500	mg/L	1	07-Apr-2014 15:36
Surr: 4-Bromofluorobenzene	107			70-130	%REC	1	07-Apr-2014 15:36
TOTAL DISSOLVED SOLIDS		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	6,260		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)		Method:E300		Analyst: JKP			
Chloride	2,880		10.0	25.0	mg/L	50	17-Apr-2014 07:07
Fluoride	18.2		0.0500	0.100	mg/L	1	16-Apr-2014 00:48
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 07:06
Sulfate	3,910		10.0	25.0	mg/L	50	17-Apr-2014 07:07
TPH DRO/ORO 8015C		Method:SW8015M		Prep:SW3511 / 07-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	4.2		0.021	0.051	mg/L	1	09-Apr-2014 17:57
Surr: 2-Fluorobiphenyl	149	S		60-135	%REC	1	09-Apr-2014 17:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-82-0414-D
Collection Date: 01-Apr-2014 14:45

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020		Prep:SW3010A / 14-Apr-2014		Analyst: ALR	
Arsenic	0.0684		0.00200	0.0100	mg/L	2	15-Apr-2014 19:06
Barium	0.0181		0.00180	0.0100	mg/L	2	15-Apr-2014 19:06
Chromium	U		0.00200	0.0100	mg/L	2	15-Apr-2014 19:06
Iron	0.493		0.156	0.400	mg/L	2	15-Apr-2014 19:06
Lead	U		0.00140	0.0100	mg/L	2	15-Apr-2014 19:06
Manganese	1.35		0.00500	0.0100	mg/L	2	15-Apr-2014 19:06
Selenium	U		0.00200	0.0100	mg/L	2	15-Apr-2014 19:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: DUP-1-0414
 Collection Date: 01-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-21
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 18:41
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 18:41
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 18:41
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
2-Butanone	0.0031	J	0.0010	0.010	mg/L	1	04-Apr-2014 18:41
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 18:41
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 18:41
Acetone	0.0097	J	0.0020	0.010	mg/L	1	04-Apr-2014 18:41
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 18:41
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 18:41
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 18:41
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 18:41
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 18:41
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 18:41
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 18:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: DUP-1-0414
 Collection Date: 01-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-21
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 18:41
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 18:41
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 18:41
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 18:41
Surr: 1,2-Dichloroethane-d4	91.5			70-125	%REC	1	04-Apr-2014 18:41
Surr: 4-Bromofluorobenzene	99.9			72-125	%REC	1	04-Apr-2014 18:41
Surr: Dibromofluoromethane	95.0			71-125	%REC	1	04-Apr-2014 18:41
Surr: Toluene-d8	99.5			75-125	%REC	1	04-Apr-2014 18:41
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.126		0.00200	0.0100	mg/L	2	14-Apr-2014 23:14
Barium	0.0210		0.00180	0.0100	mg/L	2	14-Apr-2014 23:14
Calcium	286		3.35	25.0	mg/L	50	14-Apr-2014 19:56
Chromium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:14
Iron	2.73		0.100	0.400	mg/L	2	14-Apr-2014 23:14
Lead	U		0.00140	0.0100	mg/L	2	14-Apr-2014 23:14
Manganese	1.36		0.00500	0.0100	mg/L	2	14-Apr-2014 23:14
Potassium	9.02		0.100	0.400	mg/L	2	14-Apr-2014 23:14
Selenium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:14
Sodium	1,810		2.50	10.0	mg/L	50	14-Apr-2014 19:56
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.649		0.0100	0.0500	mg/L	1	07-Apr-2014 15:54
Surr: 4-Bromofluorobenzene	108			70-130	%REC	1	07-Apr-2014 15:54
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,460		5.00	10.0	mg/L	1	08-Apr-2014 17:46
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	1,510		10.0	25.0	mg/L	50	17-Apr-2014 07:31
Fluoride	18.0		0.0500	0.100	mg/L	1	16-Apr-2014 01:02
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 07:50
Sulfate	2,070		10.0	25.0	mg/L	50	17-Apr-2014 07:31
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	4.2		0.021	0.052	mg/L	1	09-Apr-2014 18:23
Surr: 2-Fluorobiphenyl	153	S		60-135	%REC	1	09-Apr-2014 18:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: DUP-1-0414-D
Collection Date: 01-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-22
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020		Prep:SW3010A / 14-Apr-2014		Analyst: ALR	
Arsenic	0.0710		0.00200	0.0100	mg/L	2	15-Apr-2014 19:11
Barium	0.0183		0.00180	0.0100	mg/L	2	15-Apr-2014 19:11
Chromium	U		0.00200	0.0100	mg/L	2	15-Apr-2014 19:11
Iron	0.543		0.156	0.400	mg/L	2	15-Apr-2014 19:11
Lead	U		0.00140	0.0100	mg/L	2	15-Apr-2014 19:11
Manganese	1.39		0.00500	0.0100	mg/L	2	15-Apr-2014 19:11
Selenium	U		0.00200	0.0100	mg/L	2	15-Apr-2014 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: EB-1-0414
 Collection Date: 01-Apr-2014 16:00

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-23
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 17:28
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 17:28
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 17:28
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
2-Butanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 17:28
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 17:28
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 17:28
Acetone	0.0063	J	0.0020	0.010	mg/L	1	04-Apr-2014 17:28
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 17:28
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 17:28
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 17:28
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 17:28
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 17:28
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 17:28
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 17:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: EB-1-0414
 Collection Date: 01-Apr-2014 16:00

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-23
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:28
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:28
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 17:28
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 17:28
<i>Surr: 1,2-Dichloroethane-d4</i>	91.2			70-125	%REC	1	04-Apr-2014 17:28
<i>Surr: 4-Bromofluorobenzene</i>	98.0			72-125	%REC	1	04-Apr-2014 17:28
<i>Surr: Dibromofluoromethane</i>	93.2			71-125	%REC	1	04-Apr-2014 17:28
<i>Surr: Toluene-d8</i>	98.5			75-125	%REC	1	04-Apr-2014 17:28
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	13-Apr-2014 04:29
Barium	U		0.000900	0.00500	mg/L	1	13-Apr-2014 04:29
Calcium	U		0.0670	0.500	mg/L	1	14-Apr-2014 20:01
Chromium	U		0.00100	0.00500	mg/L	1	13-Apr-2014 04:29
Iron	0.0728	J	0.0500	0.200	mg/L	1	13-Apr-2014 04:29
Lead	U		0.000700	0.00500	mg/L	1	13-Apr-2014 04:29
Manganese	U		0.00250	0.00500	mg/L	1	13-Apr-2014 04:29
Nickel	U		0.00100	0.00500	mg/L	1	13-Apr-2014 04:29
Potassium	0.0687	J	0.0500	0.200	mg/L	1	13-Apr-2014 04:29
Selenium	U		0.00100	0.00500	mg/L	1	13-Apr-2014 04:29
Sodium	U		0.0500	0.200	mg/L	1	14-Apr-2014 20:01
Vanadium	U		0.000900	0.00500	mg/L	1	13-Apr-2014 04:29
CYANIDE - SW9012			Method:SW9012			Prep:SW9010C / 14-Apr-2014 Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	15-Apr-2014 18:32
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	07-Apr-2014 16:13
<i>Surr: 4-Bromofluorobenzene</i>	104			70-130	%REC	1	07-Apr-2014 16:13
MERCURY-SW7470A			Method:SW7470			Prep:SW7470 / 04-Apr-2014 Analyst: OFO	
Mercury	U		0.0000400	0.000200	mg/L	1	04-Apr-2014 16:16
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	26.0		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	0.234	J	0.200	0.500	mg/L	1	16-Apr-2014 01:17
Fluoride	U		0.0500	0.100	mg/L	1	16-Apr-2014 01:17
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 08:04
Sulfate	0.594		0.200	0.500	mg/L	1	16-Apr-2014 01:17
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.053	mg/L	1	09-Apr-2014 18:50
<i>Surr: 2-Fluorobiphenyl</i>	96.3			60-135	%REC	1	09-Apr-2014 18:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: EB-1-0414-D
 Collection Date: 01-Apr-2014 16:00

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-24
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020		Prep:SW3010A / 14-Apr-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	15-Apr-2014 03:47
Barium	U		0.000900	0.00500	mg/L	1	15-Apr-2014 15:16
Chromium	U		0.00100	0.00500	mg/L	1	15-Apr-2014 03:47
Iron	U		0.0780	0.200	mg/L	1	15-Apr-2014 03:47
Lead	U		0.000700	0.00500	mg/L	1	15-Apr-2014 03:47
Manganese	U		0.00250	0.00500	mg/L	1	15-Apr-2014 03:47
Nickel	U		0.00100	0.00500	mg/L	1	15-Apr-2014 03:47
Selenium	U		0.00100	0.00500	mg/L	1	15-Apr-2014 03:47
Vanadium	U		0.000900	0.00500	mg/L	1	15-Apr-2014 03:47
DISSOLVED MERCURY BY 7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-79-0414
 Collection Date: 02-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-25
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:32
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:32
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 19:32
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
2-Butanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:32
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:32
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:32
Acetone	U		0.0020	0.010	mg/L	1	04-Apr-2014 19:32
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 19:32
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:32
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 19:32
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:32
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 19:32
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 19:32
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-79-0414
 Collection Date: 02-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-25
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:32
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:32
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 19:32
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 19:32
Surr: 1,2-Dichloroethane-d4	88.7			70-125	%REC	1	04-Apr-2014 19:32
Surr: 4-Bromofluorobenzene	99.0			72-125	%REC	1	04-Apr-2014 19:32
Surr: Dibromofluoromethane	92.2			71-125	%REC	1	04-Apr-2014 19:32
Surr: Toluene-d8	98.7			75-125	%REC	1	04-Apr-2014 19:32
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0188		0.00200	0.0100	mg/L	2	14-Apr-2014 23:19
Barium	0.0138		0.00180	0.0100	mg/L	2	14-Apr-2014 23:19
Calcium	599		3.35	25.0	mg/L	50	14-Apr-2014 20:06
Chromium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:19
Iron	0.108	J	0.100	0.400	mg/L	2	14-Apr-2014 23:19
Lead	U		0.00140	0.0100	mg/L	2	14-Apr-2014 23:19
Manganese	1.34		0.00500	0.0100	mg/L	2	14-Apr-2014 23:19
Potassium	9.27		0.100	0.400	mg/L	2	14-Apr-2014 23:19
Selenium	0.00675	J	0.00200	0.0100	mg/L	2	14-Apr-2014 23:19
Sodium	1,510		2.50	10.0	mg/L	50	14-Apr-2014 20:06
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.0756		0.0100	0.0500	mg/L	1	07-Apr-2014 16:31
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	07-Apr-2014 16:31
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	6,920		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	1,810		10.0	25.0	mg/L	50	17-Apr-2014 07:55
Fluoride	8.56		0.0500	0.100	mg/L	1	16-Apr-2014 01:32
Nitrate/Nitrite (as N)	12.5		0.150	0.500	mg/L	5	16-Apr-2014 08:19
Sulfate	2,690		10.0	25.0	mg/L	50	17-Apr-2014 07:55
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	1.3		0.021	0.052	mg/L	1	09-Apr-2014 19:16
Surr: 2-Fluorobiphenyl	105			60-135	%REC	1	09-Apr-2014 19:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-79-0414-D
Collection Date: 02-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-26
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0183		0.00200	0.0100	mg/L	2	15-Apr-2014 19:16
Barium	0.0134		0.00180	0.0100	mg/L	2	15-Apr-2014 19:16
Chromium	U		0.00200	0.0100	mg/L	2	15-Apr-2014 19:16
Iron	U		0.156	0.400	mg/L	2	15-Apr-2014 19:16
Lead	U		0.00140	0.0100	mg/L	2	15-Apr-2014 19:16
Manganese	1.30		0.00500	0.0100	mg/L	2	15-Apr-2014 19:16
Selenium	0.00861	J	0.00200	0.0100	mg/L	2	15-Apr-2014 19:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: EB-2-0414
 Collection Date: 02-Apr-2014 08:30

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-27
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 17:50
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 17:50
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 17:50
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
2-Butanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 17:50
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 17:50
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 17:50
Acetone	0.0057	J	0.0020	0.010	mg/L	1	04-Apr-2014 17:50
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 17:50
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 17:50
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 17:50
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 17:50
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 17:50
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 17:50
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 17:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: EB-2-0414
 Collection Date: 02-Apr-2014 08:30

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-27
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 17:50
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 17:50
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 17:50
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 17:50
<i>Surr: 1,2-Dichloroethane-d4</i>	91.4			70-125	%REC	1	04-Apr-2014 17:50
<i>Surr: 4-Bromofluorobenzene</i>	96.6			72-125	%REC	1	04-Apr-2014 17:50
<i>Surr: Dibromofluoromethane</i>	94.9			71-125	%REC	1	04-Apr-2014 17:50
<i>Surr: Toluene-d8</i>	97.2			75-125	%REC	1	04-Apr-2014 17:50
ICP-MS METALS SW6020A		Method:SW6020		Prep:SW3010A / 10-Apr-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	13-Apr-2014 04:39
Barium	U		0.000900	0.00500	mg/L	1	13-Apr-2014 04:39
Calcium	U		0.0670	0.500	mg/L	1	14-Apr-2014 20:11
Chromium	U		0.00100	0.00500	mg/L	1	13-Apr-2014 04:39
Iron	U		0.0500	0.200	mg/L	1	13-Apr-2014 04:39
Lead	U		0.000700	0.00500	mg/L	1	13-Apr-2014 04:39
Manganese	U		0.00250	0.00500	mg/L	1	13-Apr-2014 04:39
Nickel	U		0.00100	0.00500	mg/L	1	13-Apr-2014 04:39
Potassium	0.0726	J	0.0500	0.200	mg/L	1	13-Apr-2014 04:39
Selenium	U		0.00100	0.00500	mg/L	1	13-Apr-2014 04:39
Sodium	U		0.0500	0.200	mg/L	1	14-Apr-2014 20:11
Vanadium	U		0.000900	0.00500	mg/L	1	13-Apr-2014 04:39
CYANIDE - SW9012		Method:SW9012		Prep:SW9010C / 14-Apr-2014		Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	15-Apr-2014 18:33
GASOLINE RANGE ORGANICS - SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	07-Apr-2014 17:07
<i>Surr: 4-Bromofluorobenzene</i>	101			70-130	%REC	1	07-Apr-2014 17:07
MERCURY-SW7470A		Method:SW7470		Prep:SW7470 / 04-Apr-2014		Analyst: OFO	
Mercury	U		0.0000400	0.000200	mg/L	1	04-Apr-2014 16:18
TOTAL DISSOLVED SOLIDS		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	26.0		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)		Method:E300		Analyst: JKP			
Chloride	U		0.200	0.500	mg/L	1	16-Apr-2014 01:46
Fluoride	0.0570	J	0.0500	0.100	mg/L	1	16-Apr-2014 01:46
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 09:03
Sulfate	0.307	J	0.200	0.500	mg/L	1	16-Apr-2014 01:46
TPH DRO/ORO 8015C		Method:SW8015M		Prep:SW3511 / 07-Apr-2014		Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	09-Apr-2014 19:42
<i>Surr: 2-Fluorobiphenyl</i>	102			60-135	%REC	1	09-Apr-2014 19:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: EB-2-0414-D
Collection Date: 02-Apr-2014 08:30

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-28
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	U		0.00100	0.00500	mg/L	1	15-Apr-2014 03:53
Barium	U		0.000900	0.00500	mg/L	1	15-Apr-2014 15:21
Chromium	U		0.00100	0.00500	mg/L	1	15-Apr-2014 03:53
Iron	U		0.0780	0.200	mg/L	1	15-Apr-2014 03:53
Lead	U		0.000700	0.00500	mg/L	1	15-Apr-2014 03:53
Manganese	U		0.00250	0.00500	mg/L	1	15-Apr-2014 03:53
Nickel	U		0.00100	0.00500	mg/L	1	15-Apr-2014 03:53
Selenium	U		0.00100	0.00500	mg/L	1	15-Apr-2014 03:53
Vanadium	U		0.000900	0.00500	mg/L	1	15-Apr-2014 03:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-80-0414
 Collection Date: 02-Apr-2014 08:55

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-29
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:58
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:58
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 19:58
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
2-Butanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:58
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:58
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:58
Acetone	0.0045	J	0.0020	0.010	mg/L	1	04-Apr-2014 19:58
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 19:58
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:58
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 19:58
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 19:58
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 19:58
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 19:58
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 19:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-80-0414
 Collection Date: 02-Apr-2014 08:55

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-29
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 19:58
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 19:58
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 19:58
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 19:58
Surr: 1,2-Dichloroethane-d4	90.6			70-125	%REC	1	04-Apr-2014 19:58
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	04-Apr-2014 19:58
Surr: Dibromofluoromethane	94.5			71-125	%REC	1	04-Apr-2014 19:58
Surr: Toluene-d8	96.9			75-125	%REC	1	04-Apr-2014 19:58
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0143		0.00200	0.0100	mg/L	2	14-Apr-2014 23:29
Barium	0.0160		0.00180	0.0100	mg/L	2	14-Apr-2014 23:29
Calcium	645		0.670	5.00	mg/L	10	14-Apr-2014 20:27
Chromium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:29
Iron	2.10		0.100	0.400	mg/L	2	14-Apr-2014 23:29
Lead	U		0.00140	0.0100	mg/L	2	14-Apr-2014 23:29
Manganese	0.703		0.00500	0.0100	mg/L	2	14-Apr-2014 23:29
Potassium	3.84		0.100	0.400	mg/L	2	14-Apr-2014 23:29
Selenium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:29
Sodium	983		0.500	2.00	mg/L	10	14-Apr-2014 20:27
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.0489	J	0.0100	0.0500	mg/L	1	07-Apr-2014 17:25
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	07-Apr-2014 17:25
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	6,080		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	1,470		10.0	25.0	mg/L	50	17-Apr-2014 09:07
Fluoride	3.62		0.0500	0.100	mg/L	1	16-Apr-2014 02:01
Nitrate/Nitrite (as N)	2.73		0.150	0.500	mg/L	5	16-Apr-2014 09:17
Sulfate	2,070		10.0	25.0	mg/L	50	17-Apr-2014 09:07
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.20		0.021	0.052	mg/L	1	09-Apr-2014 20:08
Surr: 2-Fluorobiphenyl	113			60-135	%REC	1	09-Apr-2014 20:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-80-0414-D
Collection Date: 02-Apr-2014 08:55

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-30
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.00720	J	0.00200	0.0100	mg/L	2	16-Apr-2014 16:29
Barium	0.0155		0.00180	0.0100	mg/L	2	16-Apr-2014 16:29
Chromium	U		0.00200	0.0100	mg/L	2	16-Apr-2014 16:29
Iron	U		0.156	0.400	mg/L	2	16-Apr-2014 16:29
Lead	0.00170	J	0.00140	0.0100	mg/L	2	16-Apr-2014 16:29
Manganese	0.403		0.00500	0.0100	mg/L	2	16-Apr-2014 16:29
Selenium	0.00238	J	0.00200	0.0100	mg/L	2	16-Apr-2014 16:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-81-0414
 Collection Date: 02-Apr-2014 09:30

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-31
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 20:24
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 20:24
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 20:24
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
2-Butanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 20:24
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 20:24
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 20:24
Acetone	U		0.0020	0.010	mg/L	1	04-Apr-2014 20:24
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 20:24
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 20:24
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 20:24
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 20:24
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 20:24
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 20:24
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 20:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-81-0414
 Collection Date: 02-Apr-2014 09:30

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-31
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:24
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:24
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 20:24
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 20:24
Surr: 1,2-Dichloroethane-d4	89.3			70-125	%REC	1	04-Apr-2014 20:24
Surr: 4-Bromofluorobenzene	97.9			72-125	%REC	1	04-Apr-2014 20:24
Surr: Dibromofluoromethane	92.6			71-125	%REC	1	04-Apr-2014 20:24
Surr: Toluene-d8	98.0			75-125	%REC	1	04-Apr-2014 20:24
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0188		0.00200	0.0100	mg/L	2	14-Apr-2014 23:34
Barium	0.0162		0.00180	0.0100	mg/L	2	14-Apr-2014 23:34
Calcium	111		0.670	5.00	mg/L	10	14-Apr-2014 20:31
Chromium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:34
Iron	U		0.100	0.400	mg/L	2	14-Apr-2014 23:34
Lead	U		0.00140	0.0100	mg/L	2	14-Apr-2014 23:34
Manganese	0.137		0.00500	0.0100	mg/L	2	14-Apr-2014 23:34
Potassium	9.51		0.100	0.400	mg/L	2	14-Apr-2014 23:34
Selenium	0.00757	J	0.00200	0.0100	mg/L	2	14-Apr-2014 23:34
Sodium	255		0.500	2.00	mg/L	10	14-Apr-2014 20:31
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.0318	J	0.0100	0.0500	mg/L	1	07-Apr-2014 17:44
Surr: 4-Bromofluorobenzene	105			70-130	%REC	1	07-Apr-2014 17:44
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	6,500		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	1,140		10.0	25.0	mg/L	50	17-Apr-2014 09:32
Fluoride	8.13		0.0500	0.100	mg/L	1	16-Apr-2014 02:15
Nitrate/Nitrite (as N)	79.1		0.150	0.500	mg/L	5	16-Apr-2014 09:32
Sulfate	2,350		10.0	25.0	mg/L	50	17-Apr-2014 09:32
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	3.6		0.021	0.052	mg/L	1	09-Apr-2014 20:34
Surr: 2-Fluorobiphenyl	107			60-135	%REC	1	09-Apr-2014 20:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-81-0414-D
Collection Date: 02-Apr-2014 09:30

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-32
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0188		0.00200	0.0100	mg/L	2	16-Apr-2014 16:34
Barium	0.0151		0.00180	0.0100	mg/L	2	16-Apr-2014 16:34
Chromium	U		0.00200	0.0100	mg/L	2	16-Apr-2014 16:34
Iron	U		0.156	0.400	mg/L	2	16-Apr-2014 16:34
Lead	0.00152	J	0.00140	0.0100	mg/L	2	16-Apr-2014 16:34
Manganese	0.124		0.00500	0.0100	mg/L	2	16-Apr-2014 16:34
Selenium	0.00945	J	0.00200	0.0100	mg/L	2	16-Apr-2014 16:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-2A-0414
 Collection Date: 02-Apr-2014 10:05

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-33
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 20:50
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 20:50
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 20:50
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
2-Butanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 20:50
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 20:50
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 20:50
Acetone	U		0.0020	0.010	mg/L	1	04-Apr-2014 20:50
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 20:50
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 20:50
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 20:50
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 20:50
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 20:50
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 20:50
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 20:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-2A-0414
 Collection Date: 02-Apr-2014 10:05

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-33
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 20:50
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 20:50
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 20:50
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 20:50
Surr: 1,2-Dichloroethane-d4	90.9			70-125	%REC	1	04-Apr-2014 20:50
Surr: 4-Bromofluorobenzene	96.7			72-125	%REC	1	04-Apr-2014 20:50
Surr: Dibromofluoromethane	94.5			71-125	%REC	1	04-Apr-2014 20:50
Surr: Toluene-d8	97.9			75-125	%REC	1	04-Apr-2014 20:50
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0194	J	0.00500	0.0250	mg/L	5	14-Apr-2014 23:49
Barium	0.0222	J	0.00450	0.0250	mg/L	5	14-Apr-2014 23:49
Calcium	794		0.670	5.00	mg/L	10	14-Apr-2014 20:36
Chromium	U		0.00500	0.0250	mg/L	5	14-Apr-2014 23:49
Iron	0.737	J	0.250	1.00	mg/L	5	14-Apr-2014 23:49
Lead	U		0.00350	0.0250	mg/L	5	14-Apr-2014 23:49
Manganese	1.21		0.0250	0.0500	mg/L	10	14-Apr-2014 20:36
Potassium	6.58		0.250	1.00	mg/L	5	14-Apr-2014 23:49
Selenium	U		0.00500	0.0250	mg/L	5	14-Apr-2014 23:49
Sodium	3,440		2.50	10.0	mg/L	50	15-Apr-2014 14:30
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	0.129		0.0100	0.0500	mg/L	1	08-Apr-2014 13:02
Surr: 4-Bromofluorobenzene	111			70-130	%REC	1	08-Apr-2014 13:02
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	16,200		5.00	10.0	mg/L	1	08-Apr-2014 09:45
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	5,440		10.0	25.0	mg/L	50	17-Apr-2014 09:56
Fluoride	2.19		0.0500	0.100	mg/L	1	16-Apr-2014 02:30
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 09:46
Sulfate	4,310		10.0	25.0	mg/L	50	17-Apr-2014 09:56
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	09-Apr-2014 21:00
Surr: 2-Fluorobiphenyl	94.1			60-135	%REC	1	09-Apr-2014 21:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-2A-0414-D
Collection Date: 02-Apr-2014 10:05

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-34
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0148	J	0.00500	0.0250	mg/L	5	16-Apr-2014 16:39
Barium	0.0210	J	0.00450	0.0250	mg/L	5	16-Apr-2014 16:39
Chromium	U		0.00500	0.0250	mg/L	5	16-Apr-2014 16:39
Iron	U		0.390	1.00	mg/L	5	16-Apr-2014 16:39
Lead	0.00423	J	0.00350	0.0250	mg/L	5	16-Apr-2014 16:39
Manganese	1.27		0.0125	0.0250	mg/L	5	16-Apr-2014 16:39
Selenium	0.00624	J	0.00500	0.0250	mg/L	5	16-Apr-2014 16:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-122-0414
 Collection Date: 02-Apr-2014 10:40

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-35
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 21:16
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	04-Apr-2014 21:16
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	04-Apr-2014 21:16
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
2-Butanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 21:16
2-Hexanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 21:16
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	04-Apr-2014 21:16
Acetone	U		0.0020	0.010	mg/L	1	04-Apr-2014 21:16
Benzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
Bromoform	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
Bromomethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
Carbon disulfide	U		0.00090	0.010	mg/L	1	04-Apr-2014 21:16
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
Chlorobenzene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 21:16
Chloroethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
Chloroform	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
Chloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
Ethylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
m,p-Xylene	U		0.00060	0.010	mg/L	1	04-Apr-2014 21:16
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
Methylene chloride	U		0.0010	0.010	mg/L	1	04-Apr-2014 21:16
Naphthalene	U		0.00070	0.0050	mg/L	1	04-Apr-2014 21:16
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	04-Apr-2014 21:16
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
o-Xylene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
Styrene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
Toluene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	04-Apr-2014 21:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-122-0414
 Collection Date: 02-Apr-2014 10:40

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-35
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	04-Apr-2014 21:16
Trichloroethene	U		0.00050	0.0050	mg/L	1	04-Apr-2014 21:16
Vinyl chloride	U		0.00040	0.0020	mg/L	1	04-Apr-2014 21:16
Xylenes, Total	U		0.0015	0.015	mg/L	1	04-Apr-2014 21:16
Surr: 1,2-Dichloroethane-d4	90.6			70-125	%REC	1	04-Apr-2014 21:16
Surr: 4-Bromofluorobenzene	97.8			72-125	%REC	1	04-Apr-2014 21:16
Surr: Dibromofluoromethane	93.5			71-125	%REC	1	04-Apr-2014 21:16
Surr: Toluene-d8	98.3			75-125	%REC	1	04-Apr-2014 21:16
ICP-MS METALS SW6020A		Method:SW6020		Prep:SW3010A / 10-Apr-2014 Analyst: ALR			
Arsenic	0.00917	J	0.00200	0.0100	mg/L	2	14-Apr-2014 23:54
Barium	0.0406		0.00180	0.0100	mg/L	2	14-Apr-2014 23:54
Calcium	492		0.670	5.00	mg/L	10	14-Apr-2014 20:41
Chromium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:54
Iron	5.37		0.100	0.400	mg/L	2	14-Apr-2014 23:54
Lead	0.00144	J	0.00140	0.0100	mg/L	2	14-Apr-2014 23:54
Manganese	2.09		0.0250	0.0500	mg/L	10	14-Apr-2014 20:41
Potassium	5.14		0.100	0.400	mg/L	2	14-Apr-2014 23:54
Selenium	U		0.00200	0.0100	mg/L	2	14-Apr-2014 23:54
Sodium	1,050		0.500	2.00	mg/L	10	14-Apr-2014 20:41
GASOLINE RANGE ORGANICS - SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	0.0289	J	0.0100	0.0500	mg/L	1	08-Apr-2014 13:20
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08-Apr-2014 13:20
TOTAL DISSOLVED SOLIDS		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	5,740		5.00	10.0	mg/L	1	09-Apr-2014 09:55
ANIONS - EPA 300.0 (1993)		Method:E300		Analyst: JKP			
Chloride	1,370		10.0	25.0	mg/L	50	17-Apr-2014 10:20
Fluoride	3.53		0.0500	0.100	mg/L	1	16-Apr-2014 02:44
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 10:01
Sulfate	2,190		10.0	25.0	mg/L	50	17-Apr-2014 10:20
TPH DRO/ORO 8015C		Method:SW8015M		Prep:SW3511 / 07-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	09-Apr-2014 22:18
Surr: 2-Fluorobiphenyl	96.2			60-135	%REC	1	09-Apr-2014 22:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-122-0414-D
Collection Date: 02-Apr-2014 10:40

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-36
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS		Method:SW6020			Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.00897	J	0.00200	0.0100	mg/L	2	16-Apr-2014 16:53
Barium	0.0337		0.00180	0.0100	mg/L	2	16-Apr-2014 16:53
Chromium	U		0.00200	0.0100	mg/L	2	16-Apr-2014 16:53
Iron	4.81		0.156	0.400	mg/L	2	16-Apr-2014 16:53
Lead	0.00167	J	0.00140	0.0100	mg/L	2	16-Apr-2014 16:53
Manganese	2.00		0.0500	0.100	mg/L	20	15-Apr-2014 15:46
Selenium	U		0.00200	0.0100	mg/L	2	16-Apr-2014 16:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-121-0414
 Collection Date: 02-Apr-2014 11:15

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-37
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	06-Apr-2014 14:08
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	06-Apr-2014 14:08
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	06-Apr-2014 14:08
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
2-Butanone	U		0.0010	0.010	mg/L	1	06-Apr-2014 14:08
2-Hexanone	U		0.0010	0.010	mg/L	1	06-Apr-2014 14:08
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	06-Apr-2014 14:08
Acetone	U		0.0020	0.010	mg/L	1	06-Apr-2014 14:08
Benzene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
Bromoform	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
Bromomethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
Carbon disulfide	U		0.00090	0.010	mg/L	1	06-Apr-2014 14:08
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
Chlorobenzene	U		0.00040	0.0050	mg/L	1	06-Apr-2014 14:08
Chloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
Chloroform	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
Chloromethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
Ethylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
m,p-Xylene	U		0.00060	0.010	mg/L	1	06-Apr-2014 14:08
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
Methylene chloride	U		0.0010	0.010	mg/L	1	06-Apr-2014 14:08
Naphthalene	U		0.00070	0.0050	mg/L	1	06-Apr-2014 14:08
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	06-Apr-2014 14:08
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
o-Xylene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
Styrene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
Toluene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	06-Apr-2014 14:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-121-0414
 Collection Date: 02-Apr-2014 11:15

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-37
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:08
Trichloroethene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:08
Vinyl chloride	U		0.00040	0.0020	mg/L	1	06-Apr-2014 14:08
Xylenes, Total	U		0.0015	0.015	mg/L	1	06-Apr-2014 14:08
Surr: 1,2-Dichloroethane-d4	91.3			70-125	%REC	1	06-Apr-2014 14:08
Surr: 4-Bromofluorobenzene	97.5			72-125	%REC	1	06-Apr-2014 14:08
Surr: Dibromofluoromethane	93.2			71-125	%REC	1	06-Apr-2014 14:08
Surr: Toluene-d8	97.9			75-125	%REC	1	06-Apr-2014 14:08
ICP-MS METALS SW6020A			Method:SW6020			Prep:SW3010A / 10-Apr-2014 Analyst: ALR	
Arsenic	0.0465		0.00100	0.00500	mg/L	1	14-Apr-2014 23:59
Barium	0.0160		0.000900	0.00500	mg/L	1	14-Apr-2014 23:59
Calcium	750		0.670	5.00	mg/L	10	14-Apr-2014 20:46
Chromium	U		0.00100	0.00500	mg/L	1	14-Apr-2014 23:59
Iron	0.963		0.0500	0.200	mg/L	1	14-Apr-2014 23:59
Lead	U		0.000700	0.00500	mg/L	1	14-Apr-2014 23:59
Manganese	4.22		0.0250	0.0500	mg/L	10	14-Apr-2014 20:46
Potassium	3.15		0.0500	0.200	mg/L	1	14-Apr-2014 23:59
Selenium	0.00446	J	0.00100	0.00500	mg/L	1	14-Apr-2014 23:59
Sodium	922		0.500	2.00	mg/L	10	14-Apr-2014 20:46
GASOLINE RANGE ORGANICS - SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	08-Apr-2014 13:38
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08-Apr-2014 13:38
TOTAL DISSOLVED SOLIDS			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	6,040		5.00	10.0	mg/L	1	09-Apr-2014 09:55
ANIONS - EPA 300.0 (1993)			Method:E300			Analyst: JKP	
Chloride	1,880		10.0	25.0	mg/L	50	17-Apr-2014 11:32
Fluoride	3.85		0.0500	0.100	mg/L	1	16-Apr-2014 03:28
Nitrate/Nitrite (as N)	2.41		0.150	0.500	mg/L	5	16-Apr-2014 10:44
Sulfate	2,210		10.0	25.0	mg/L	50	17-Apr-2014 11:32
TPH DRO/ORO 8015C			Method:SW8015M			Prep:SW3511 / 07-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.092		0.021	0.052	mg/L	1	09-Apr-2014 22:44
Surr: 2-Fluorobiphenyl	95.0			60-135	%REC	1	09-Apr-2014 22:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-121-0414-D
Collection Date: 02-Apr-2014 11:15

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-38
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS	Method:SW6020				Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0339		0.00200	0.0100	mg/L	2	16-Apr-2014 16:58
Barium	0.0170		0.00180	0.0100	mg/L	2	16-Apr-2014 16:58
Chromium	U		0.00200	0.0100	mg/L	2	16-Apr-2014 16:58
Iron	0.415		0.156	0.400	mg/L	2	16-Apr-2014 16:58
Lead	0.00150	J	0.00140	0.0100	mg/L	2	16-Apr-2014 16:58
Manganese	4.37		0.125	0.250	mg/L	50	15-Apr-2014 17:11
Selenium	0.00511	J	0.00200	0.0100	mg/L	2	16-Apr-2014 16:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-120-0414
 Collection Date: 02-Apr-2014 11:45

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-39
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	06-Apr-2014 14:33
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	06-Apr-2014 14:33
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	06-Apr-2014 14:33
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
2-Butanone	U		0.0010	0.010	mg/L	1	06-Apr-2014 14:33
2-Hexanone	U		0.0010	0.010	mg/L	1	06-Apr-2014 14:33
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	06-Apr-2014 14:33
Acetone	0.0067	J	0.0020	0.010	mg/L	1	06-Apr-2014 14:33
Benzene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
Bromoform	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
Bromomethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
Carbon disulfide	U		0.00090	0.010	mg/L	1	06-Apr-2014 14:33
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
Chlorobenzene	U		0.00040	0.0050	mg/L	1	06-Apr-2014 14:33
Chloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
Chloroform	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
Chloromethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
Ethylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
m,p-Xylene	U		0.00060	0.010	mg/L	1	06-Apr-2014 14:33
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
Methylene chloride	U		0.0010	0.010	mg/L	1	06-Apr-2014 14:33
Naphthalene	0.0026	J	0.00070	0.0050	mg/L	1	06-Apr-2014 14:33
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	06-Apr-2014 14:33
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
o-Xylene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
Styrene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
Toluene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	06-Apr-2014 14:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: MW-120-0414
 Collection Date: 02-Apr-2014 11:45

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-39
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 14:33
Trichloroethene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 14:33
Vinyl chloride	U		0.00040	0.0020	mg/L	1	06-Apr-2014 14:33
Xylenes, Total	U		0.0015	0.015	mg/L	1	06-Apr-2014 14:33
Surr: 1,2-Dichloroethane-d4	92.1			70-125	%REC	1	06-Apr-2014 14:33
Surr: 4-Bromofluorobenzene	98.0			72-125	%REC	1	06-Apr-2014 14:33
Surr: Dibromofluoromethane	94.8			71-125	%REC	1	06-Apr-2014 14:33
Surr: Toluene-d8	97.7			75-125	%REC	1	06-Apr-2014 14:33
ICP-MS METALS SW6020A		Method:SW6020		Prep:SW3010A / 10-Apr-2014 Analyst: ALR			
Arsenic	0.0307		0.00200	0.0100	mg/L	2	15-Apr-2014 00:09
Barium	0.0335		0.00180	0.0100	mg/L	2	15-Apr-2014 00:09
Calcium	587		0.670	5.00	mg/L	10	14-Apr-2014 20:51
Chromium	0.00217	J	0.00200	0.0100	mg/L	2	15-Apr-2014 00:09
Iron	8.09		0.100	0.400	mg/L	2	15-Apr-2014 00:09
Lead	0.00213	J	0.00140	0.0100	mg/L	2	15-Apr-2014 00:09
Manganese	1.19		0.0250	0.0500	mg/L	10	14-Apr-2014 20:51
Potassium	3.99		0.100	0.400	mg/L	2	15-Apr-2014 00:09
Selenium	U		0.00200	0.0100	mg/L	2	15-Apr-2014 00:09
Sodium	1,470		0.500	2.00	mg/L	10	14-Apr-2014 20:51
GASOLINE RANGE ORGANICS - SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	0.0734		0.0100	0.0500	mg/L	1	08-Apr-2014 14:32
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	08-Apr-2014 14:32
TOTAL DISSOLVED SOLIDS		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	8,000		5.00	10.0	mg/L	1	09-Apr-2014 09:55
ANIONS - EPA 300.0 (1993)		Method:E300		Analyst: JKP			
Chloride	2,180		10.0	25.0	mg/L	50	17-Apr-2014 11:56
Fluoride	3.56		0.0500	0.100	mg/L	1	16-Apr-2014 04:12
Nitrate/Nitrite (as N)	U		0.150	0.500	mg/L	5	16-Apr-2014 10:59
Sulfate	3,430		10.0	25.0	mg/L	50	17-Apr-2014 11:56
TPH DRO/ORO 8015C		Method:SW8015M		Prep:SW3511 / 07-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	0.23		0.021	0.053	mg/L	1	09-Apr-2014 23:10
Surr: 2-Fluorobiphenyl	104			60-135	%REC	1	09-Apr-2014 23:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: MW-120-0414-D
Collection Date: 02-Apr-2014 11:45

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-40
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS	Method:SW6020				Prep:SW3010A / 14-Apr-2014		Analyst: ALR
Arsenic	0.0152		0.00200	0.0100	mg/L	2	16-Apr-2014 17:03
Barium	0.00984	J	0.00180	0.0100	mg/L	2	16-Apr-2014 17:03
Chromium	U		0.00200	0.0100	mg/L	2	16-Apr-2014 17:03
Iron	3.76		0.156	0.400	mg/L	2	16-Apr-2014 17:03
Lead	0.00156	J	0.00140	0.0100	mg/L	2	16-Apr-2014 17:03
Manganese	1.27		0.00500	0.0100	mg/L	2	16-Apr-2014 17:03
Selenium	U		0.00200	0.0100	mg/L	2	16-Apr-2014 17:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
 Project: SA-Artesia Refinery-EP SA GW
 Sample ID: Trip Blank 032514-34
 Collection Date: 02-Apr-2014 15:00

ANALYTICAL REPORT

WorkOrder:HS14040122
 Lab ID:HS14040122-41
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	06-Apr-2014 13:45
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	06-Apr-2014 13:45
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	06-Apr-2014 13:45
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
2-Butanone	U		0.0010	0.010	mg/L	1	06-Apr-2014 13:45
2-Hexanone	U		0.0010	0.010	mg/L	1	06-Apr-2014 13:45
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	06-Apr-2014 13:45
Acetone	U		0.0020	0.010	mg/L	1	06-Apr-2014 13:45
Benzene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
Bromoform	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
Bromomethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
Carbon disulfide	U		0.00090	0.010	mg/L	1	06-Apr-2014 13:45
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
Chlorobenzene	U		0.00040	0.0050	mg/L	1	06-Apr-2014 13:45
Chloroethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
Chloroform	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
Chloromethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
Ethylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
m,p-Xylene	U		0.00060	0.010	mg/L	1	06-Apr-2014 13:45
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
Methylene chloride	U		0.0010	0.010	mg/L	1	06-Apr-2014 13:45
Naphthalene	U		0.00070	0.0050	mg/L	1	06-Apr-2014 13:45
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	06-Apr-2014 13:45
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
o-Xylene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
Styrene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
Toluene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	06-Apr-2014 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
Sample ID: Trip Blank 032514-34
Collection Date: 02-Apr-2014 15:00

ANALYTICAL REPORT

WorkOrder:HS14040122
Lab ID:HS14040122-41
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	06-Apr-2014 13:45
Trichloroethene	U		0.00050	0.0050	mg/L	1	06-Apr-2014 13:45
Vinyl chloride	U		0.00040	0.0020	mg/L	1	06-Apr-2014 13:45
Xylenes, Total	U		0.0015	0.015	mg/L	1	06-Apr-2014 13:45
Surr: 1,2-Dichloroethane-d4	91.9			70-125	%REC	1	06-Apr-2014 13:45
Surr: 4-Bromofluorobenzene	97.6			72-125	%REC	1	06-Apr-2014 13:45
Surr: Dibromofluoromethane	93.7			71-125	%REC	1	06-Apr-2014 13:45
Surr: Toluene-d8	98.8			75-125	%REC	1	06-Apr-2014 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
WorkOrder: HS14040122

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 80341 Test Name : MERCURY-SW7470A Matrix: Water						
HS14040122-23D	EB-1-0414	01 Apr 2014 16:00		04 Apr 2014 13:06	04 Apr 2014 16:16	1
HS14040122-27D	EB-2-0414	02 Apr 2014 08:30		04 Apr 2014 13:06	04 Apr 2014 16:18	1
Batch ID 80439 Test Name : TPH DRO/ORO 8015C Matrix: Water						
HS14040122-01C	MW-72-0414	01 Apr 2014 08:15		07 Apr 2014 16:57	09 Apr 2014 13:11	1
HS14040122-03C	MW-73-0414	01 Apr 2014 09:05		07 Apr 2014 16:57	09 Apr 2014 13:37	1
HS14040122-05C	MW-74-0414	01 Apr 2014 09:50		07 Apr 2014 16:57	10 Apr 2014 12:27	10
HS14040122-07C	MW-75-0414	01 Apr 2014 10:40		07 Apr 2014 16:57	10 Apr 2014 12:53	5
HS14040122-09C	MW-77-0414	01 Apr 2014 11:35		07 Apr 2014 16:57	10 Apr 2014 13:19	20
HS14040122-11C	MW-78-0414	01 Apr 2014 12:20		07 Apr 2014 16:57	10 Apr 2014 13:45	10
HS14040122-13C	MW-76-0414	01 Apr 2014 13:05		07 Apr 2014 16:57	10 Apr 2014 14:11	5
HS14040122-15C	MW-83-0414	01 Apr 2014 13:40		07 Apr 2014 16:57	10 Apr 2014 14:37	10
HS14040122-17C	MW-84-0414	01 Apr 2014 14:15		07 Apr 2014 16:57	10 Apr 2014 15:03	10
HS14040122-19C	MW-82-0414	01 Apr 2014 14:45		07 Apr 2014 16:57	09 Apr 2014 17:57	1
HS14040122-21C	DUP-1-0414	01 Apr 2014 00:00		07 Apr 2014 16:57	09 Apr 2014 18:23	1
HS14040122-23C	EB-1-0414	01 Apr 2014 16:00		07 Apr 2014 16:57	09 Apr 2014 18:50	1
HS14040122-25C	MW-79-0414	02 Apr 2014 08:15		07 Apr 2014 16:57	09 Apr 2014 19:16	1
HS14040122-27C	EB-2-0414	02 Apr 2014 08:30		07 Apr 2014 16:57	09 Apr 2014 19:42	1
HS14040122-29C	MW-80-0414	02 Apr 2014 08:55		07 Apr 2014 16:57	09 Apr 2014 20:08	1
HS14040122-31C	MW-81-0414	02 Apr 2014 09:30		07 Apr 2014 16:57	09 Apr 2014 20:34	1
HS14040122-33C	MW-2A-0414	02 Apr 2014 10:05		07 Apr 2014 16:57	09 Apr 2014 21:00	1
HS14040122-35C	MW-122-0414	02 Apr 2014 10:40		07 Apr 2014 16:57	09 Apr 2014 22:18	1
HS14040122-37C	MW-121-0414	02 Apr 2014 11:15		07 Apr 2014 16:57	09 Apr 2014 22:44	1
HS14040122-39C	MW-120-0414	02 Apr 2014 11:45		07 Apr 2014 16:57	09 Apr 2014 23:10	1

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
WorkOrder: HS14040122

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 80540	Test Name : ICP-MS METALS SW6020A			Matrix: Water		
HS14040122-01D	MW-72-0414	01 Apr 2014 08:15		10 Apr 2014 08:00	14 Apr 2014 15:08	50
HS14040122-01D	MW-72-0414	01 Apr 2014 08:15		10 Apr 2014 08:00	13 Apr 2014 01:29	1
HS14040122-03D	MW-73-0414	01 Apr 2014 09:05		10 Apr 2014 08:00	14 Apr 2014 21:05	5
HS14040122-03D	MW-73-0414	01 Apr 2014 09:05		10 Apr 2014 08:00	14 Apr 2014 16:38	50
HS14040122-05D	MW-74-0414	01 Apr 2014 09:50		10 Apr 2014 08:00	14 Apr 2014 21:10	5
HS14040122-05D	MW-74-0414	01 Apr 2014 09:50		10 Apr 2014 08:00	14 Apr 2014 16:43	50
HS14040122-07D	MW-75-0414	01 Apr 2014 10:40		10 Apr 2014 08:00	14 Apr 2014 21:15	2
HS14040122-07D	MW-75-0414	01 Apr 2014 10:40		10 Apr 2014 08:00	14 Apr 2014 16:48	50
HS14040122-09D	MW-77-0414	01 Apr 2014 11:35		10 Apr 2014 08:00	14 Apr 2014 21:25	2
HS14040122-09D	MW-77-0414	01 Apr 2014 11:35		10 Apr 2014 08:00	14 Apr 2014 16:53	50
HS14040122-09D	MW-77-0414	01 Apr 2014 11:35		10 Apr 2014 08:00	13 Apr 2014 03:34	1
HS14040122-11D	MW-78-0414	01 Apr 2014 12:20		10 Apr 2014 08:00	14 Apr 2014 16:58	10
HS14040122-11D	MW-78-0414	01 Apr 2014 12:20		10 Apr 2014 08:00	13 Apr 2014 03:39	1
HS14040122-13D	MW-76-0414	01 Apr 2014 13:05		10 Apr 2014 08:00	14 Apr 2014 17:03	10
HS14040122-13D	MW-76-0414	01 Apr 2014 13:05		10 Apr 2014 08:00	13 Apr 2014 03:44	1
HS14040122-15D	MW-83-0414	01 Apr 2014 13:40		10 Apr 2014 08:00	14 Apr 2014 21:30	1
HS14040122-15D	MW-83-0414	01 Apr 2014 13:40		10 Apr 2014 08:00	14 Apr 2014 17:08	10
HS14040122-15D	MW-83-0414	01 Apr 2014 13:40		10 Apr 2014 08:00	13 Apr 2014 03:49	1
HS14040122-17D	MW-84-0414	01 Apr 2014 14:15		10 Apr 2014 08:00	14 Apr 2014 21:35	2
HS14040122-17D	MW-84-0414	01 Apr 2014 14:15		10 Apr 2014 08:00	14 Apr 2014 19:47	50
HS14040122-17D	MW-84-0414	01 Apr 2014 14:15		10 Apr 2014 08:00	13 Apr 2014 03:54	1
HS14040122-19D	MW-82-0414	01 Apr 2014 14:45		10 Apr 2014 08:00	14 Apr 2014 23:09	2
HS14040122-19D	MW-82-0414	01 Apr 2014 14:45		10 Apr 2014 08:00	14 Apr 2014 19:52	50
HS14040122-19D	MW-82-0414	01 Apr 2014 14:45		10 Apr 2014 08:00	13 Apr 2014 04:19	1
HS14040122-21D	DUP-1-0414	01 Apr 2014 00:00		10 Apr 2014 08:00	14 Apr 2014 23:14	2
HS14040122-21D	DUP-1-0414	01 Apr 2014 00:00		10 Apr 2014 08:00	14 Apr 2014 19:56	50
HS14040122-23D	EB-1-0414	01 Apr 2014 16:00		10 Apr 2014 08:00	14 Apr 2014 20:01	1
HS14040122-23D	EB-1-0414	01 Apr 2014 16:00		10 Apr 2014 08:00	13 Apr 2014 04:29	1
HS14040122-25D	MW-79-0414	02 Apr 2014 08:15		10 Apr 2014 08:00	14 Apr 2014 23:19	2
HS14040122-25D	MW-79-0414	02 Apr 2014 08:15		10 Apr 2014 08:00	14 Apr 2014 20:06	50
HS14040122-27D	EB-2-0414	02 Apr 2014 08:30		10 Apr 2014 08:00	14 Apr 2014 20:11	1
HS14040122-27D	EB-2-0414	02 Apr 2014 08:30		10 Apr 2014 08:00	13 Apr 2014 04:39	1
HS14040122-29D	MW-80-0414	02 Apr 2014 08:55		10 Apr 2014 08:00	14 Apr 2014 23:29	2
HS14040122-29D	MW-80-0414	02 Apr 2014 08:55		10 Apr 2014 08:00	14 Apr 2014 20:27	10
HS14040122-31D	MW-81-0414	02 Apr 2014 09:30		10 Apr 2014 08:00	14 Apr 2014 23:34	2
HS14040122-31D	MW-81-0414	02 Apr 2014 09:30		10 Apr 2014 08:00	14 Apr 2014 20:31	10
HS14040122-33D	MW-2A-0414	02 Apr 2014 10:05		10 Apr 2014 08:00	15 Apr 2014 14:30	50
HS14040122-33D	MW-2A-0414	02 Apr 2014 10:05		10 Apr 2014 08:00	14 Apr 2014 23:49	5
HS14040122-33D	MW-2A-0414	02 Apr 2014 10:05		10 Apr 2014 08:00	14 Apr 2014 20:36	10
HS14040122-35D	MW-122-0414	02 Apr 2014 10:40		10 Apr 2014 08:00	14 Apr 2014 23:54	2

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
WorkOrder: HS14040122

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
HS14040122-35D	MW-122-0414	02 Apr 2014 10:40		10 Apr 2014 08:00	14 Apr 2014 20:41	10
HS14040122-37D	MW-121-0414	02 Apr 2014 11:15		10 Apr 2014 08:00	14 Apr 2014 23:59	1
HS14040122-37D	MW-121-0414	02 Apr 2014 11:15		10 Apr 2014 08:00	14 Apr 2014 20:46	10
HS14040122-39D	MW-120-0414	02 Apr 2014 11:45		10 Apr 2014 08:00	15 Apr 2014 00:09	2
HS14040122-39D	MW-120-0414	02 Apr 2014 11:45		10 Apr 2014 08:00	14 Apr 2014 20:51	10

Batch ID	80673	Test Name : DISSOLVED METALS		Matrix: Water		
HS14040122-02A	MW-72-0414-D	01 Apr 2014 08:20		14 Apr 2014 10:00	15 Apr 2014 17:16	5
HS14040122-02A	MW-72-0414-D	01 Apr 2014 08:20		14 Apr 2014 10:00	15 Apr 2014 15:26	50
HS14040122-04A	MW-73-0414-D	01 Apr 2014 09:10		14 Apr 2014 10:00	15 Apr 2014 18:06	5
HS14040122-06A	MW-74-0414-D	01 Apr 2014 09:50		14 Apr 2014 10:00	15 Apr 2014 18:11	5
HS14040122-08A	MW-75-0414-D	01 Apr 2014 10:40		14 Apr 2014 10:00	15 Apr 2014 18:16	2
HS14040122-10A	MW-77-0414-D	01 Apr 2014 11:35		14 Apr 2014 10:00	15 Apr 2014 18:26	2
HS14040122-12A	MW-78-0414-D	01 Apr 2014 12:20		14 Apr 2014 10:00	15 Apr 2014 18:31	1
HS14040122-14A	MW-76-0414-D	01 Apr 2014 13:05		14 Apr 2014 10:00	15 Apr 2014 18:46	1
HS14040122-16A	MW-83-0414-D	01 Apr 2014 13:40		14 Apr 2014 10:00	15 Apr 2014 18:51	1
HS14040122-18A	MW-84-0414-D	01 Apr 2014 14:15		14 Apr 2014 10:00	15 Apr 2014 18:56	2
HS14040122-20A	MW-82-0414-D	01 Apr 2014 14:45		14 Apr 2014 10:00	15 Apr 2014 19:06	2
HS14040122-22A	DUP-1-0414-D	01 Apr 2014 00:00		14 Apr 2014 10:00	15 Apr 2014 19:11	2
HS14040122-24A	EB-1-0414-D	01 Apr 2014 16:00		14 Apr 2014 10:00	15 Apr 2014 15:16	1
HS14040122-24A	EB-1-0414-D	01 Apr 2014 16:00		14 Apr 2014 10:00	15 Apr 2014 03:47	1
HS14040122-26A	MW-79-0414-D	02 Apr 2014 08:15		14 Apr 2014 10:00	15 Apr 2014 19:16	2
HS14040122-28A	EB-2-0414-D	02 Apr 2014 08:30		14 Apr 2014 10:00	15 Apr 2014 15:21	1
HS14040122-28A	EB-2-0414-D	02 Apr 2014 08:30		14 Apr 2014 10:00	15 Apr 2014 03:53	1
HS14040122-30A	MW-80-0414-D	02 Apr 2014 08:55		14 Apr 2014 10:00	16 Apr 2014 16:29	2
HS14040122-32A	MW-81-0414-D	02 Apr 2014 09:30		14 Apr 2014 10:00	16 Apr 2014 16:34	2
HS14040122-34A	MW-2A-0414-D	02 Apr 2014 10:05		14 Apr 2014 10:00	16 Apr 2014 16:39	5
HS14040122-36A	MW-122-0414-D	02 Apr 2014 10:40		14 Apr 2014 10:00	16 Apr 2014 16:53	2
HS14040122-36A	MW-122-0414-D	02 Apr 2014 10:40		14 Apr 2014 10:00	15 Apr 2014 15:46	20
HS14040122-38A	MW-121-0414-D	02 Apr 2014 11:15		14 Apr 2014 10:00	16 Apr 2014 16:58	2
HS14040122-38A	MW-121-0414-D	02 Apr 2014 11:15		14 Apr 2014 10:00	15 Apr 2014 17:11	50
HS14040122-40A	MW-120-0414-D	02 Apr 2014 11:45		14 Apr 2014 10:00	16 Apr 2014 17:03	2

Batch ID	80788	Test Name : CYANIDE - SW9012		Matrix: Water		
HS14040122-23G	EB-1-0414	01 Apr 2014 16:00		14 Apr 2014 11:10	15 Apr 2014 18:32	1
HS14040122-27G	EB-2-0414	02 Apr 2014 08:30		14 Apr 2014 11:10	15 Apr 2014 18:33	1

Batch ID	81307	Test Name : DISSOLVED MERCURY BY 7470A		Matrix: Water		
HS14040122-24A	EB-1-0414-D	01 Apr 2014 16:00		29 Apr 2014 09:00	29 Apr 2014 13:29	1

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
WorkOrder: HS14040122

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R231275	Test Name : VOLATILES - SW8260C			Matrix: Water		
HS14040122-01A	MW-72-0414	01 Apr 2014 08:15			04 Apr 2014 13:46	1
HS14040122-03A	MW-73-0414	01 Apr 2014 09:05			04 Apr 2014 14:10	1
HS14040122-05A	MW-74-0414	01 Apr 2014 09:50			04 Apr 2014 14:36	1
HS14040122-07A	MW-75-0414	01 Apr 2014 10:40			04 Apr 2014 14:58	1
HS14040122-09A	MW-77-0414	01 Apr 2014 11:35			04 Apr 2014 15:22	1
HS14040122-11A	MW-78-0414	01 Apr 2014 12:20			04 Apr 2014 21:42	1
HS14040122-13A	MW-76-0414	01 Apr 2014 13:05			04 Apr 2014 19:06	1
HS14040122-15A	MW-83-0414	01 Apr 2014 13:40			04 Apr 2014 22:08	1
HS14040122-17A	MW-84-0414	01 Apr 2014 14:15			04 Apr 2014 22:34	1
HS14040122-19A	MW-82-0414	01 Apr 2014 14:45			04 Apr 2014 18:15	1
HS14040122-21A	DUP-1-0414	01 Apr 2014 00:00			04 Apr 2014 18:41	1
HS14040122-23A	EB-1-0414	01 Apr 2014 16:00			04 Apr 2014 17:28	1
HS14040122-25A	MW-79-0414	02 Apr 2014 08:15			04 Apr 2014 19:32	1
HS14040122-27A	EB-2-0414	02 Apr 2014 08:30			04 Apr 2014 17:50	1
HS14040122-29A	MW-80-0414	02 Apr 2014 08:55			04 Apr 2014 19:58	1
HS14040122-31A	MW-81-0414	02 Apr 2014 09:30			04 Apr 2014 20:24	1
HS14040122-33A	MW-2A-0414	02 Apr 2014 10:05			04 Apr 2014 20:50	1
HS14040122-35A	MW-122-0414	02 Apr 2014 10:40			04 Apr 2014 21:16	1
Batch ID R231301	Test Name : VOLATILES - SW8260C			Matrix: Water		
HS14040122-37A	MW-121-0414	02 Apr 2014 11:15			06 Apr 2014 14:08	1
HS14040122-39A	MW-120-0414	02 Apr 2014 11:45			06 Apr 2014 14:33	1
HS14040122-41A	Trip Blank 032514-34	02 Apr 2014 15:00			06 Apr 2014 13:45	1

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
WorkOrder: HS14040122

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R231336 Test Name : GASOLINE RANGE ORGANICS - SW8015C Matrix: Water						
HS14040122-01B	MW-72-0414	01 Apr 2014 08:15			07 Apr 2014 13:57	1
HS14040122-03B	MW-73-0414	01 Apr 2014 09:05			07 Apr 2014 14:15	1
HS14040122-05B	MW-74-0414	01 Apr 2014 09:50			07 Apr 2014 14:33	1
HS14040122-07B	MW-75-0414	01 Apr 2014 10:40			07 Apr 2014 14:51	1
HS14040122-09B	MW-77-0414	01 Apr 2014 11:35			07 Apr 2014 18:02	10
HS14040122-11B	MW-78-0414	01 Apr 2014 12:20			07 Apr 2014 18:20	10
HS14040122-13B	MW-76-0414	01 Apr 2014 13:05			07 Apr 2014 15:18	1
HS14040122-15B	MW-83-0414	01 Apr 2014 13:40			07 Apr 2014 18:38	10
HS14040122-17B	MW-84-0414	01 Apr 2014 14:15			07 Apr 2014 18:56	10
HS14040122-19B	MW-82-0414	01 Apr 2014 14:45			07 Apr 2014 15:36	1
HS14040122-21B	DUP-1-0414	01 Apr 2014 00:00			07 Apr 2014 15:54	1
HS14040122-23B	EB-1-0414	01 Apr 2014 16:00			07 Apr 2014 16:13	1
HS14040122-25B	MW-79-0414	02 Apr 2014 08:15			07 Apr 2014 16:31	1
HS14040122-27B	EB-2-0414	02 Apr 2014 08:30			07 Apr 2014 17:07	1
HS14040122-29B	MW-80-0414	02 Apr 2014 08:55			07 Apr 2014 17:25	1
HS14040122-31B	MW-81-0414	02 Apr 2014 09:30			07 Apr 2014 17:44	1
Batch ID R231436 Test Name : TOTAL DISSOLVED SOLIDS Matrix: Water						
HS14040122-01E	MW-72-0414	01 Apr 2014 08:15			08 Apr 2014 17:46	1
HS14040122-03E	MW-73-0414	01 Apr 2014 09:05			08 Apr 2014 17:46	1
HS14040122-05E	MW-74-0414	01 Apr 2014 09:50			08 Apr 2014 17:46	1
HS14040122-07E	MW-75-0414	01 Apr 2014 10:40			08 Apr 2014 17:46	1
HS14040122-21E	DUP-1-0414	01 Apr 2014 00:00			08 Apr 2014 17:46	1
Batch ID R231454 Test Name : GASOLINE RANGE ORGANICS - SW8015C Matrix: Water						
HS14040122-33B	MW-2A-0414	02 Apr 2014 10:05			08 Apr 2014 13:02	1
HS14040122-35B	MW-122-0414	02 Apr 2014 10:40			08 Apr 2014 13:20	1
HS14040122-37B	MW-121-0414	02 Apr 2014 11:15			08 Apr 2014 13:38	1
HS14040122-39B	MW-120-0414	02 Apr 2014 11:45			08 Apr 2014 14:32	1

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
WorkOrder: HS14040122

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R231532 Test Name : TOTAL DISSOLVED SOLIDS Matrix: Water						
HS14040122-09E	MW-77-0414	01 Apr 2014 11:35			08 Apr 2014 09:45	1
HS14040122-11E	MW-78-0414	01 Apr 2014 12:20			08 Apr 2014 09:45	1
HS14040122-13E	MW-76-0414	01 Apr 2014 13:05			08 Apr 2014 09:45	1
HS14040122-15E	MW-83-0414	01 Apr 2014 13:40			08 Apr 2014 09:45	1
HS14040122-17E	MW-84-0414	01 Apr 2014 14:15			08 Apr 2014 09:45	1
HS14040122-19E	MW-82-0414	01 Apr 2014 14:45			08 Apr 2014 09:45	1
HS14040122-23E	EB-1-0414	01 Apr 2014 16:00			08 Apr 2014 09:45	1
HS14040122-25E	MW-79-0414	02 Apr 2014 08:15			08 Apr 2014 09:45	1
HS14040122-27E	EB-2-0414	02 Apr 2014 08:30			08 Apr 2014 09:45	1
HS14040122-29E	MW-80-0414	02 Apr 2014 08:55			08 Apr 2014 09:45	1
HS14040122-31E	MW-81-0414	02 Apr 2014 09:30			08 Apr 2014 09:45	1
HS14040122-33E	MW-2A-0414	02 Apr 2014 10:05			08 Apr 2014 09:45	1
Batch ID R231649 Test Name : TOTAL DISSOLVED SOLIDS Matrix: Water						
HS14040122-35E	MW-122-0414	02 Apr 2014 10:40			09 Apr 2014 09:55	1
HS14040122-37E	MW-121-0414	02 Apr 2014 11:15			09 Apr 2014 09:55	1
HS14040122-39E	MW-120-0414	02 Apr 2014 11:45			09 Apr 2014 09:55	1
Batch ID R232054 Test Name : ANIONS - EPA 300.0 (1993) Matrix: Water						
HS14040122-01F	MW-72-0414	01 Apr 2014 08:15			16 Apr 2014 04:55	5
HS14040122-03F	MW-73-0414	01 Apr 2014 09:05			16 Apr 2014 05:10	5
HS14040122-05F	MW-74-0414	01 Apr 2014 09:50			16 Apr 2014 05:24	5
HS14040122-07F	MW-75-0414	01 Apr 2014 10:40			16 Apr 2014 05:39	5
HS14040122-09F	MW-77-0414	01 Apr 2014 11:35			16 Apr 2014 05:53	5
HS14040122-11F	MW-78-0414	01 Apr 2014 12:20			16 Apr 2014 06:08	5
HS14040122-13F	MW-76-0414	01 Apr 2014 13:05			16 Apr 2014 06:23	5
HS14040122-15F	MW-83-0414	01 Apr 2014 13:40			16 Apr 2014 06:37	5
HS14040122-17F	MW-84-0414	01 Apr 2014 14:15			16 Apr 2014 06:52	5
HS14040122-19F	MW-82-0414	01 Apr 2014 14:45			16 Apr 2014 07:06	5
HS14040122-21F	DUP-1-0414	01 Apr 2014 00:00			16 Apr 2014 07:50	5
HS14040122-23F	EB-1-0414	01 Apr 2014 16:00			16 Apr 2014 08:04	5
HS14040122-25F	MW-79-0414	02 Apr 2014 08:15			16 Apr 2014 08:19	5
HS14040122-27F	EB-2-0414	02 Apr 2014 08:30			16 Apr 2014 09:03	5
HS14040122-29F	MW-80-0414	02 Apr 2014 08:55			16 Apr 2014 09:17	5
HS14040122-31F	MW-81-0414	02 Apr 2014 09:30			16 Apr 2014 09:32	5
HS14040122-33F	MW-2A-0414	02 Apr 2014 10:05			16 Apr 2014 09:46	5
HS14040122-35F	MW-122-0414	02 Apr 2014 10:40			16 Apr 2014 10:01	5
HS14040122-37F	MW-121-0414	02 Apr 2014 11:15			16 Apr 2014 10:44	5
HS14040122-39F	MW-120-0414	02 Apr 2014 11:45			16 Apr 2014 10:59	5

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
WorkOrder: HS14040122

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R232066	Test Name : ANIONS - EPA 300.0 (1993)			Matrix: Water		
HS14040122-01E	MW-72-0414	01 Apr 2014 08:15			15 Apr 2014 22:08	1
HS14040122-03E	MW-73-0414	01 Apr 2014 09:05			15 Apr 2014 22:22	1
HS14040122-05E	MW-74-0414	01 Apr 2014 09:50			15 Apr 2014 22:37	1
HS14040122-07E	MW-75-0414	01 Apr 2014 10:40			15 Apr 2014 22:52	1
HS14040122-09E	MW-77-0414	01 Apr 2014 11:35			15 Apr 2014 23:06	1
HS14040122-11E	MW-78-0414	01 Apr 2014 12:20			15 Apr 2014 23:21	1
HS14040122-13E	MW-76-0414	01 Apr 2014 13:05			15 Apr 2014 23:35	1
HS14040122-15E	MW-83-0414	01 Apr 2014 13:40			15 Apr 2014 23:50	1
HS14040122-17E	MW-84-0414	01 Apr 2014 14:15			16 Apr 2014 00:33	1
HS14040122-19E	MW-82-0414	01 Apr 2014 14:45			16 Apr 2014 00:48	1
HS14040122-21E	DUP-1-0414	01 Apr 2014 00:00			16 Apr 2014 01:02	1
HS14040122-23E	EB-1-0414	01 Apr 2014 16:00			16 Apr 2014 01:17	1
HS14040122-25E	MW-79-0414	02 Apr 2014 08:15			16 Apr 2014 01:32	1
HS14040122-27E	EB-2-0414	02 Apr 2014 08:30			16 Apr 2014 01:46	1
HS14040122-29E	MW-80-0414	02 Apr 2014 08:55			16 Apr 2014 02:01	1
HS14040122-31E	MW-81-0414	02 Apr 2014 09:30			16 Apr 2014 02:15	1
HS14040122-33E	MW-2A-0414	02 Apr 2014 10:05			16 Apr 2014 02:30	1
HS14040122-35E	MW-122-0414	02 Apr 2014 10:40			16 Apr 2014 02:44	1
HS14040122-37E	MW-121-0414	02 Apr 2014 11:15			16 Apr 2014 03:28	1
HS14040122-39E	MW-120-0414	02 Apr 2014 11:45			16 Apr 2014 04:12	1
Batch ID R232075	Test Name : ANIONS - EPA 300.0 (1993)			Matrix: Water		
HS14040122-01E	MW-72-0414	01 Apr 2014 08:15			17 Apr 2014 02:41	50
HS14040122-03E	MW-73-0414	01 Apr 2014 09:05			17 Apr 2014 03:05	50
HS14040122-05E	MW-74-0414	01 Apr 2014 09:50			17 Apr 2014 03:30	50
HS14040122-07E	MW-75-0414	01 Apr 2014 10:40			17 Apr 2014 03:54	50
HS14040122-09E	MW-77-0414	01 Apr 2014 11:35			17 Apr 2014 04:18	50
HS14040122-11E	MW-78-0414	01 Apr 2014 12:20			17 Apr 2014 04:42	50
HS14040122-13E	MW-76-0414	01 Apr 2014 13:05			17 Apr 2014 05:06	50
HS14040122-15E	MW-83-0414	01 Apr 2014 13:40			17 Apr 2014 05:30	50
HS14040122-17E	MW-84-0414	01 Apr 2014 14:15			17 Apr 2014 06:43	50
HS14040122-19E	MW-82-0414	01 Apr 2014 14:45			17 Apr 2014 07:07	50
HS14040122-21E	DUP-1-0414	01 Apr 2014 00:00			17 Apr 2014 07:31	50
HS14040122-25E	MW-79-0414	02 Apr 2014 08:15			17 Apr 2014 07:55	50
HS14040122-29E	MW-80-0414	02 Apr 2014 08:55			17 Apr 2014 09:07	50
HS14040122-31E	MW-81-0414	02 Apr 2014 09:30			17 Apr 2014 09:32	50
HS14040122-33E	MW-2A-0414	02 Apr 2014 10:05			17 Apr 2014 09:56	50
HS14040122-35E	MW-122-0414	02 Apr 2014 10:40			17 Apr 2014 10:20	50
HS14040122-37E	MW-121-0414	02 Apr 2014 11:15			17 Apr 2014 11:32	50
HS14040122-39E	MW-120-0414	02 Apr 2014 11:45			17 Apr 2014 11:56	50

Revision:3

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
WorkOrder: HS14040122

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80439		Instrument: FID-16		Method: SW8015M						
MBLK	Sample ID: LBLKW-140407	Units: mg/L			Analysis Date: 09-Apr-2014 11:53					
Client ID:	Run ID: FID-16_231772	SeqNo: 2789859		PrepDate: 07-Apr-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

TPH (Diesel Range) U 0.050

Surr: 2-Fluorobiphenyl 0.07192 0.0050 0.06061 0 119 60 - 135

LCS	Sample ID: LLCS-140407	Units: mg/L			Analysis Date: 09-Apr-2014 12:19				
Client ID:		Run ID: FID-16_231772	SeqNo: 2789860		PrepDate: 07-Apr-2014		DF: 1		
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

TPH (Diesel Range) 0.6452 0.050 0.6061 0 106 70 - 130

Surr: 2-Fluorobiphenyl 0.0778 0.0050 0.06061 0 128 60 - 135

LCSD	Sample ID: LLCSDW-140407	Units: mg/L			Analysis Date: 09-Apr-2014 12:45					
Client ID:	Run ID: FID-16_231772	SeqNo: 2789861		PrepDate: 07-Apr-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

TPH (Diesel Range) 0.6364 0.050 0.6061 0 105 70 - 130 0.6452 1.38 20

Surr: 2-Fluorobiphenyl 0.07648 0.0050 0.06061 0 126 60 - 135 0.0778 1.71 20

The following samples were analyzed in this batch:				HS14040122-01C	HS14040122-03C	HS14040122-05C	HS14040122-07C
				HS14040122-09C	HS14040122-11C	HS14040122-13C	HS14040122-15C
				HS14040122-17C	HS14040122-19C	HS14040122-21C	HS14040122-23C
				HS14040122-25C	HS14040122-27C	HS14040122-29C	HS14040122-31C
				HS14040122-33C	HS14040122-35C	HS14040122-37C	HS14040122-39C

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231336		Instrument: FID-9		Method: SW8015					
MBLK	Sample ID: GBLKW1-140407	Units: mg/L		Analysis Date: 07-Apr-2014 11:29					
Client ID:	Run ID: FID-9_231336		SeqNo: 2778805		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	U	0.0500							
Surr: 4-Bromofluorobenzene	0.1066	0.00500	0.1	0	107	70 - 130			
LCS	Sample ID: GLCSW1-140407	Units: mg/L		Analysis Date: 07-Apr-2014 10:53					
Client ID:	Run ID: FID-9_231336		SeqNo: 2778804		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	0.9797	0.0500	1	0	98.0	70 - 130			
Surr: 4-Bromofluorobenzene	0.1113	0.00500	0.1	0	111	70 - 130			
MS	Sample ID: HS14040159-01BMS	Units: mg/L		Analysis Date: 07-Apr-2014 12:05					
Client ID:	Run ID: FID-9_231336		SeqNo: 2778807		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	0.9843	0.0500	1	0	98.4	70 - 130			
Surr: 4-Bromofluorobenzene	0.1073	0.00500	0.1	0	107	70 - 130			
MSD	Sample ID: HS14040159-01BMSD	Units: mg/L		Analysis Date: 07-Apr-2014 12:23					
Client ID:	Run ID: FID-9_231336		SeqNo: 2778808		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	0.9777	0.0500	1	0	97.8	70 - 130	0.9843	0.68	30
Surr: 4-Bromofluorobenzene	0.1079	0.00500	0.1	0	108	70 - 130	0.1073	0.564	30
The following samples were analyzed in this batch:									
HS14040122-01B		HS14040122-03B		HS14040122-05B		HS14040122-07B			
HS14040122-09B		HS14040122-11B		HS14040122-13B		HS14040122-15B			
HS14040122-17B		HS14040122-19B		HS14040122-21B		HS14040122-23B			
HS14040122-25B		HS14040122-27B		HS14040122-29B		HS14040122-31B			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231454		Instrument: FID-9		Method: SW8015						
MBLK	Sample ID: GBLKW1-140408	Units: mg/L				Analysis Date: 08-Apr-2014 12:22				
Client ID:	Run ID: FID-9_231454	SeqNo: 2781748				PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.0500								
Surr: 4-Bromofluorobenzene	0.1024	0.00500	0.1	0	102	70 - 130				
LCS	Sample ID: GLCSW1-140408	Units: mg/L				Analysis Date: 08-Apr-2014 11:46				
Client ID:	Run ID: FID-9_231454	SeqNo: 2781747				PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9529	0.0500	1	0	95.3	70 - 130				
Surr: 4-Bromofluorobenzene	0.1048	0.00500	0.1	0	105	70 - 130				
MS	Sample ID: HS14040122-37BMS	Units: mg/L				Analysis Date: 08-Apr-2014 13:56				
Client ID: MW-121-0414	Run ID: FID-9_231454	SeqNo: 2781752				PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.92	0.0500	1	0	92.0	70 - 130				
Surr: 4-Bromofluorobenzene	0.1048	0.00500	0.1	0	105	70 - 130				
MSD	Sample ID: HS14040122-37BMSD	Units: mg/L				Analysis Date: 08-Apr-2014 14:14				
Client ID: MW-121-0414	Run ID: FID-9_231454	SeqNo: 2781753				PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9744	0.0500	1	0	97.4	70 - 130	0.92	5.74	30	
Surr: 4-Bromofluorobenzene	0.1045	0.00500	0.1	0	104	70 - 130	0.1048	0.277	30	
The following samples were analyzed in this batch:										
HS14040122-33B			HS14040122-35B			HS14040122-37B			HS14040122-39B	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80341		Instrument: HG03		Method: SW7470					
MBLK	Sample ID: GBLKW1-040414	Units: mg/L		Analysis Date: 04-Apr-2014 15:56					
Client ID:	Run ID: HG03_163984	SeqNo: 2775112		PrepDate: 04-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury U 0.000200									
LCS	Sample ID: GLCSW1-040414	Units: mg/L		Analysis Date: 04-Apr-2014 15:57					
Client ID:	Run ID: HG03_163984	SeqNo: 2775176		PrepDate: 04-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury 0.00475 0.000200 0.005 0 95.0 80 - 124									
MS	Sample ID: HS14040078-01DMS	Units: mg/L		Analysis Date: 04-Apr-2014 16:03					
Client ID:	Run ID: HG03_163984	SeqNo: 2775179		PrepDate: 04-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury 0.00448 0.000200 0.005 0.000009 89.4 80 - 124									
MSD	Sample ID: HS14040078-01DMSD	Units: mg/L		Analysis Date: 04-Apr-2014 16:04					
Client ID:	Run ID: HG03_163984	SeqNo: 2775306		PrepDate: 04-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury 0.00474 0.000200 0.005 0.000009 94.6 80 - 124 0.00448 5.64 20									
DUP	Sample ID: HS14040078-01DDUP	Units: mg/L		Analysis Date: 04-Apr-2014 16:01					
Client ID:	Run ID: HG03_163984	SeqNo: 2775178		PrepDate: 04-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury U 0.000200 0.000009 0 20									
The following samples were anayzed in this batch: HS14040122-23D HS14040122-27D									

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80540		Instrument: ICP7500		Method: SW6020						
MBLK	Sample ID: MBLKW2-041014	Units: mg/L			Analysis Date: 13-Apr-2014 01:19					
Client ID:	Run ID: ICP7500_231765	SeqNo: 2790063		PrepDate: 10-Apr-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic	U	0.00500								
Barium	U	0.00500								
Calcium	U	0.500								
Chromium	U	0.00500								
Iron	U	0.200								
Lead	U	0.00500								
Manganese	U	0.00500								
Potassium	U	0.200								
Selenium	U	0.00500								
Sodium	0.024	0.200								J

LCS	Sample ID: MLCSW2-041014		Units: mg/L		Analysis Date: 13-Apr-2014 01:24					
Client ID:	Run ID: ICP7500_231765		SeqNo: 2790064		PrepDate: 10-Apr-2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic	0.04991	0.00500	0.05	0	99.8	80 - 120				
Barium	0.05172	0.00500	0.05	0	103	80 - 120				
Calcium	5.115	0.500	5	0	102	80 - 120				
Chromium	0.04977	0.00500	0.05	0	99.5	80 - 120				
Iron	5.083	0.200	5	0	102	80 - 120				
Lead	0.05084	0.00500	0.05	0	102	80 - 120				
Manganese	0.05055	0.00500	0.05	0	101	80 - 120				
Potassium	5.26	0.200	5	0	105	80 - 120				
Selenium	0.05071	0.00500	0.05	0	101	80 - 120				
Sodium	5.308	0.200	5	0	106	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80540		Instrument: ICP7500				Method: SW6020				
MS		Sample ID: HS14040122-01DMS			Units: mg/L		Analysis Date: 13-Apr-2014 01:44			
Client ID: MW-72-0414		Run ID: ICP7500_231765			SeqNo: 2790068		PrepDate: 10-Apr-2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.104	0.00500	0.05	0.04796	112	80 - 120				
Barium	0.06473	0.00500	0.05	0.01542	98.6	80 - 120				
Calcium	842.3	0.500	5	844.1	-36.0	80 - 120				SEO
Chromium	0.05231	0.00500	0.05	0	105	80 - 120				
Iron	12.15	0.200	5	7.13	100	80 - 120				
Lead	0.05115	0.00500	0.05	0	102	80 - 120				
Manganese	5.91	0.00500	0.05	5.936	-52.0	80 - 120				SEO
Potassium	15.67	0.200	5	9.868	116	80 - 120				
Selenium	0.06081	0.00500	0.05	0	122	80 - 120				S
Sodium	U	0.200	5	0	0	80 - 120				S

MSD		Sample ID: HS14040122-01DMSD			Units: mg/L		Analysis Date: 13-Apr-2014 01:49			
Client ID: MW-72-0414		Run ID: ICP7500_231765			SeqNo: 2790069		PrepDate: 10-Apr-2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1048	0.00500	0.05	0.04796	114	80 - 120	0.104	0.766	15	
Barium	0.06619	0.00500	0.05	0.01542	102	80 - 120	0.06473	2.23	15	
Calcium	867.2	0.500	5	844.1	462	80 - 120	842.3	2.91	15	SEO
Chromium	0.05299	0.00500	0.05	0	106	80 - 120	0.05231	1.29	15	
Iron	12.46	0.200	5	7.13	107	80 - 120	12.15	2.52	15	
Lead	0.05142	0.00500	0.05	0	103	80 - 120	0.05115	0.526	15	
Manganese	6.051	0.00500	0.05	5.936	230	80 - 120	5.91	2.36	15	SEO
Potassium	16.04	0.200	5	9.868	123	80 - 120	15.67	2.33	15	S
Selenium	0.06432	0.00500	0.05	0	129	80 - 120	0.06081	5.61	15	S
Sodium	U	0.200	5	0	0	80 - 120	0	0	15	S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80540		Instrument: ICP7500		Method: SW6020						
DUP		Sample ID: HS14040122-01DDUP		Units: mg/L		Analysis Date: 13-Apr-2014 01:34				
Client ID: MW-72-0414		Run ID: ICP7500_231765		SeqNo: 2790066		PrepDate: 10-Apr-2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04822	0.00500					0.04796	0.541	25	
Barium	0.01503	0.00500					0.01542	2.56	25	
Chromium	U	0.00500					0.0003938	0	25	
Iron	7.146	0.200					7.13	0.224	25	
Lead	U	0.00500					0.0004941	0	25	
Potassium	9.829	0.200					9.868	0.396	25	
Selenium	U	0.00500					0.000298	0	25	

DUP		Sample ID: HS14040122-01DDUP		Units: mg/L		Analysis Date: 14-Apr-2014 15:14				
Client ID: MW-72-0414		Run ID: ICP7500_231807		SeqNo: 2790725		PrepDate: 10-Apr-2014		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	830.5	25.0					795	4.37	25	
Manganese	5.805	0.250					5.69	2	25	
Sodium	2452	10.0					2440	0.45	25	

PDS		Sample ID: HS14040122-01DBS		Units: mg/L		Analysis Date: 13-Apr-2014 01:54				
Client ID: MW-72-0414		Run ID: ICP7500_231765		SeqNo: 2790070		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1557	0.00500	0.1	0.04796	108	75 - 125				
Barium	0.1125	0.00500	0.1	0.01542	97.1	75 - 125				
Chromium	0.103	0.00500	0.1	0.0003938	103	75 - 125				
Iron	17.01	0.200	10	7.13	98.8	75 - 125				
Lead	0.09907	0.00500	0.1	0.0004941	98.6	75 - 125				
Potassium	20.59	0.200	10	9.868	107	75 - 125				
Selenium	0.117	0.00500	0.1	0.000298	117	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80540		Instrument: ICP7500				Method: SW6020				
PDS		Sample ID: HS14040122-01DBS			Units: mg/L		Analysis Date: 14-Apr-2014 15:24			
Client ID: MW-72-0414		Run ID: ICP7500_231807			SeqNo: 2790727		PrepDate:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	1285	25.0	500	795	98.0	75 - 125				
Manganese	10.58	0.250	5	5.69	97.8	75 - 125				
Sodium	2875	10.0	500	2440	86.9	75 - 125				O
SD		Sample ID: HS14040122-01D DIL SX			Units: mg/L		Analysis Date: 13-Apr-2014 01:39			
Client ID: MW-72-0414		Run ID: ICP7500_231765			SeqNo: 2790067		PrepDate:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0445	0.0250					0.04796	7.22	10	
Barium	0.01627	0.0250					0.01542	0	10	J
Chromium	U	0.0250					0.0003938	0	10	
Iron	6.96	1.00					7.13	2.38	10	
Lead	U	0.0250					0.0004941	0	10	
Potassium	9.595	1.00					9.868	2.77	10	
Selenium	U	0.0250					0.000298	0	10	
SD		Sample ID: HS14040122-01D DIL SX			Units: mg/L		Analysis Date: 14-Apr-2014 15:19			
Client ID: MW-72-0414		Run ID: ICP7500_231807			SeqNo: 2790726		PrepDate:		DF: 250	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	781	125					795	1.76	10	
Manganese	5.6	1.25					5.69	1.58	10	
Sodium	2430	50.0					2440	0.43	10	
The following samples were analyzed in this batch:		HS14040122-01D		HS14040122-03D		HS14040122-05D		HS14040122-07D		
		HS14040122-09D		HS14040122-11D		HS14040122-13D		HS14040122-15D		
		HS14040122-17D		HS14040122-19D		HS14040122-21D		HS14040122-23D		
		HS14040122-25D		HS14040122-27D		HS14040122-29D		HS14040122-31D		
		HS14040122-33D		HS14040122-35D		HS14040122-37D		HS14040122-39D		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80673		Instrument: ICP7500		Method: SW6020						
MBLK	Sample ID: MBLKW3-041414	Units: mg/L				Analysis Date: 15-Apr-2014 03:37				
Client ID:	Run ID: ICP7500_231807	SeqNo: 2792027		PrepDate: 14-Apr-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00500								
Chromium	U	0.00500								
Iron	U	0.200								
Lead	U	0.00500								
Manganese	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Vanadium	U	0.00500								

MBLK	Sample ID: MBLKW3-041414	Units: mg/L				Analysis Date: 15-Apr-2014 15:06				
Client ID:	Run ID: ICP7500_231893	SeqNo: 2792574		PrepDate: 14-Apr-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	U	0.00500								

LCS	Sample ID: MLCSW3-041414	Units: mg/L				Analysis Date: 15-Apr-2014 03:42				
Client ID:	Run ID: ICP7500_231807	SeqNo: 2792028		PrepDate: 14-Apr-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04867	0.00500	0.05	0	97.3	80 - 120				
Chromium	0.05025	0.00500	0.05	0	100	80 - 120				
Iron	5.125	0.200	5	0	102	80 - 120				
Lead	0.04901	0.00500	0.05	0	98.0	80 - 120				
Manganese	0.05131	0.00500	0.05	0	103	80 - 120				
Nickel	0.05009	0.00500	0.05	0	100	80 - 120				
Selenium	0.0507	0.00500	0.05	0	101	80 - 120				
Vanadium	0.04929	0.00500	0.05	0	98.6	80 - 120				

LCS	Sample ID: MLCSW3-041414	Units: mg/L				Analysis Date: 15-Apr-2014 15:11				
Client ID:	Run ID: ICP7500_231893	SeqNo: 2792575		PrepDate: 14-Apr-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.05104	0.00500	0.05	0	102	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80673		Instrument: ICP7500		Method: SW6020						
MS		Sample ID: HS14040122-02AMS		Units: mg/L		Analysis Date: 15-Apr-2014 17:42				
Client ID: MW-72-0414-D		Run ID: ICP7500_231893		SeqNo: 2793775		PrepDate: 14-Apr-2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.07265	0.0250	0.05	0.02578	93.7	75 - 125				
Barium	0.05995	0.0250	0.05	0.01464	90.6	75 - 125				
Chromium	0.04748	0.0250	0.05	0	95.0	75 - 125				
Iron	9.155	1.00	5	3.888	105	75 - 125				
Lead	0.04664	0.0250	0.05	0	93.3	75 - 125				
Manganese	5.34	0.0250	0.05	5.225	230	75 - 125				SO
Nickel	0.04899	0.0250	0.05	0	98.0	75 - 125				
Selenium	0.0516	0.0250	0.05	0	103	75 - 125				
Vanadium	0.04896	0.0250	0.05	0	97.9	75 - 125				

MSD		Sample ID: HS14040122-02AMSD		Units: mg/L		Analysis Date: 15-Apr-2014 17:47				
Client ID: MW-72-0414-D		Run ID: ICP7500_231893		SeqNo: 2793776		PrepDate: 14-Apr-2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0779	0.0250	0.05	0.02578	104	75 - 125	0.07265	6.97	25	
Barium	0.0619	0.0250	0.05	0.01464	94.5	75 - 125	0.05995	3.2	25	
Chromium	0.0481	0.0250	0.05	0	96.2	75 - 125	0.04748	1.31	25	
Iron	8.94	1.00	5	3.888	101	75 - 125	9.155	2.38	25	
Lead	0.04725	0.0250	0.05	0	94.5	75 - 125	0.04664	1.29	25	
Manganese	5.24	0.0250	0.05	5.225	30.0	75 - 125	5.34	1.89	25	SO
Nickel	0.04403	0.0250	0.05	0	88.1	75 - 125	0.04899	10.7	25	
Selenium	0.04811	0.0250	0.05	0	96.2	75 - 125	0.0516	7	25	
Vanadium	0.04774	0.0250	0.05	0	95.5	75 - 125	0.04896	2.54	25	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80673		Instrument: ICP7500			Method: SW6020					
DUP	Sample ID: HS14040122-02ADUP	Units: mg/L			Analysis Date: 15-Apr-2014 17:21					
Client ID: MW-72-0414-D	Run ID: ICP7500_231893	SeqNo: 2793771		PrepDate: 14-Apr-2014		DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.02735	0.0250					0.02578	5.91	25	
Barium	0.01332	0.0250					0.01464	0	25	J
Chromium	U	0.0250					0	0	25	
Iron	3.904	1.00					3.888	0.411	25	
Lead	U	0.0250					0	0	25	
Nickel	U	0.0250					0	0	25	
Selenium	U	0.0250					0	0	25	
Vanadium	U	0.0250					0	0	25	

DUP	Sample ID: HS14040122-02ADUP	Units: mg/L			Analysis Date: 15-Apr-2014 15:31					
Client ID: MW-72-0414-D	Run ID: ICP7500_231893	SeqNo: 2792579		PrepDate: 14-Apr-2014		DF: 50				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	5.12	0.250					5.16	0.778	25	

PDS	Sample ID: HS14040122-02ABS	Units: mg/L			Analysis Date: 15-Apr-2014 17:51					
Client ID: MW-72-0414-D	Run ID: ICP7500_231893	SeqNo: 2793777		PrepDate:		DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.5235	0.0250	0.5	0.02578	99.5	75 - 125				
Barium	0.497	0.0250	0.5	0.01464	96.5	75 - 125				
Chromium	0.4693	0.0250	0.5	0	93.9	75 - 125				
Iron	51.55	1.00	50	3.888	95.3	75 - 125				
Lead	0.4712	0.0250	0.5	0	94.2	75 - 125				
Nickel	0.4698	0.0250	0.5	0	94.0	75 - 125				
Selenium	0.4855	0.0250	0.5	0	97.1	75 - 125				
Vanadium	0.4938	0.0250	0.5	0	98.8	75 - 125				

PDS	Sample ID: HS14040122-02ABS	Units: mg/L			Analysis Date: 15-Apr-2014 15:41					
Client ID: MW-72-0414-D	Run ID: ICP7500_231893	SeqNo: 2792581		PrepDate:		DF: 50				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	9.89	0.250	5	5.16	94.6	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80673		Instrument: ICP7500		Method: SW6020						
SD		Sample ID: HS14040122-02A DIL SX		Units: mg/L		Analysis Date: 15-Apr-2014 17:26				
Client ID: MW-72-0414-D		Run ID: ICP7500_231893		SeqNo: 2793772		PrepDate:		DF: 25		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.125					0.02578	0	10	
Barium	U	0.125					0.01464	0	10	
Chromium	U	0.125					0	0	10	
Iron	2.775	5.00					3.888	0	10	J
Lead	U	0.125					0	0	10	
Nickel	U	0.125					0	0	10	
Selenium	U	0.125					0	0	10	
Vanadium	U	0.125					0	0	10	

SD		Sample ID: HS14040122-02A DIL SX		Units: mg/L		Analysis Date: 15-Apr-2014 15:36				
Client ID: MW-72-0414-D		Run ID: ICP7500_231893		SeqNo: 2792580		PrepDate:		DF: 250		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	5.275	1.25					5.16	2.23	10	

The following samples were analyzed in this batch:	HS14040122-02A	HS14040122-04A	HS14040122-06A	HS14040122-08A
	HS14040122-10A	HS14040122-12A	HS14040122-14A	HS14040122-16A
	HS14040122-18A	HS14040122-20A	HS14040122-22A	HS14040122-24A
	HS14040122-26A	HS14040122-28A	HS14040122-30A	HS14040122-32A
	HS14040122-34A	HS14040122-36A	HS14040122-38A	HS14040122-40A

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 81307		Instrument: HG03		Method: SW7470					
MBLK	Sample ID: GBLKW1-042914	Units: mg/L		Analysis Date: 29-Apr-2014 13:18					
Client ID:	Run ID: HG03_232695	SeqNo: 2814353		PrepDate: 29-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury U 0.000200									
LCS	Sample ID: GLCSW1-042914	Units: mg/L		Analysis Date: 29-Apr-2014 13:20					
Client ID:	Run ID: HG03_232695	SeqNo: 2814354		PrepDate: 29-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury 0.00496 0.000200 0.005 0 99.2 80 - 120									
MS	Sample ID: HS14040801-14MS	Units: mg/L		Analysis Date: 29-Apr-2014 13:25					
Client ID:	Run ID: HG03_232695	SeqNo: 2814357		PrepDate: 29-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury 0.00427 0.000200 0.005 -0.000001 85.4 80 - 120									
MSD	Sample ID: HS14040801-14MSD	Units: mg/L		Analysis Date: 29-Apr-2014 13:27					
Client ID:	Run ID: HG03_232695	SeqNo: 2814358		PrepDate: 29-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury 0.00444 0.000200 0.005 -0.000001 88.8 80 - 120 0.00427 3.9 20									
DUP	Sample ID: HS14040801-14DUP	Units: mg/L		Analysis Date: 29-Apr-2014 13:23					
Client ID:	Run ID: HG03_232695	SeqNo: 2814356		PrepDate: 29-Apr-2014		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury U 0.000200 -0.000001 0 20									
The following samples were anayzed in this batch: HS14040122-24A									

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231275			Instrument: VOA6			Method: SW8260				
MBLK		Sample ID: VBLKW-140404		Units: ug/L		Analysis Date: 04-Apr-2014 13:20				
Client ID:		Run ID: VOA6_231275		SeqNo: 2776541		PrepDate:		DF: 1		
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trimethylbenzene	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3,5-Trimethylbenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Isopropyltoluene	U	5.0								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Dibromochloromethane	U	5.0								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl tert-butyl ether	U	5.0								
Methylene chloride	U	10								
Naphthalene	U	5.0								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231275			Instrument: VOA6			Method: SW8260				
MBLK		Sample ID: VBLKW-140404		Units: ug/L		Analysis Date: 04-Apr-2014 13:20				
Client ID:		Run ID: VOA6_231275		SeqNo: 2776541		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	U	5.0								
n-Propylbenzene	U	5.0								
o-Xylene	U	5.0								
sec-Butylbenzene	U	5.0								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,2-Dichloroethene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Vinyl chloride	U	2.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	46.68	5.0	50	0	93.4	70 - 125				
Surr: 4-Bromofluorobenzene	48.48	5.0	50	0	97.0	72 - 125				
Surr: Dibromofluoromethane	47.12	5.0	50	0	94.2	71 - 125				
Surr: Toluene-d8	49.05	5.0	50	0	98.1	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231275		Instrument: VOA6		Method: SW8260						
LCS	Sample ID: VLCSW-140404	Units: ug/L				Analysis Date: 04-Apr-2014 12:12				
Client ID:		Run ID: VOA6_231275		SeqNo: 2776540		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46	5.0	50	0	92.0	80 - 120				
1,1,2,2-Tetrachloroethane	46.87	5.0	50	0	93.7	72 - 120				
1,1,2-Trichloroethane	47.25	5.0	50	0	94.5	80 - 120				
1,1-Dichloroethane	41.06	5.0	50	0	82.1	76 - 120				
1,1-Dichloroethene	46.76	5.0	50	0	93.5	73 - 124				
1,2,4-Trimethylbenzene	50.06	5.0	50	0	100	68 - 123				
1,2-Dibromoethane	47.98	5.0	50	0	96.0	80 - 120				
1,2-Dichloroethane	42.75	5.0	50	0	85.5	78 - 120				
1,2-Dichloropropane	44.72	5.0	50	0	89.4	80 - 120				
1,3,5-Trimethylbenzene	50.46	5.0	50	0	101	80 - 120				
2-Butanone	79.44	10	100	0	79.4	58 - 132				
2-Hexanone	84.12	10	100	0	84.1	61 - 130				
4-Isopropyltoluene	52.38	5.0	50	0	105	79 - 120				
4-Methyl-2-pentanone	86.03	10	100	0	86.0	65 - 127				
Acetone	86.31	10	100	0	86.3	59 - 137				
Benzene	43.7	5.0	50	0	87.4	73 - 121				
Bromodichloromethane	46.9	5.0	50	0	93.8	75 - 125				
Bromoform	54.75	5.0	50	0	110	70 - 130				
Bromomethane	40.24	5.0	50	0	80.5	60 - 145				
Carbon disulfide	105.4	10	100	0	105	68 - 141				
Carbon tetrachloride	48.54	5.0	50	0	97.1	75 - 125				
Chlorobenzene	49.03	5.0	50	0	98.1	80 - 120				
Chloroethane	42.26	5.0	50	0	84.5	70 - 130				
Chloroform	44.08	5.0	50	0	88.2	70 - 130				
Chloromethane	40.58	5.0	50	0	81.2	67 - 123				
cis-1,2-Dichloroethene	45.47	5.0	50	0	90.9	78 - 120				
cis-1,3-Dichloropropene	47.91	5.0	50	0	95.8	80 - 120				
Dibromochloromethane	51.87	5.0	50	0	104	80 - 120				
Ethylbenzene	50.08	5.0	50	0	100	80 - 120				
Isopropylbenzene	51.18	5.0	50	0	102	75 - 130				
m,p-Xylene	100.8	10	100	0	101	78 - 121				
Methyl tert-butyl ether	40.09	5.0	50	0	80.2	73 - 121				
Methylene chloride	39.92	10	50	0	79.8	65 - 133				
Naphthalene	47.5	5.0	50	0	95.0	65 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231275		Instrument: VOA6		Method: SW8260						
LCS	Sample ID: VLCSW-140404	Units: ug/L				Analysis Date: 04-Apr-2014 12:12				
Client ID:	Run ID: VOA6_231275	SeqNo: 2776540		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	52.18	5.0	50	0	104	77 - 120				
n-Propylbenzene	51.39	5.0	50	0	103	78 - 120				
o-Xylene	51.33	5.0	50	0	103	80 - 120				
sec-Butylbenzene	51.7	5.0	50	0	103	78 - 120				
Styrene	51.77	5.0	50	0	104	80 - 120				
Tetrachloroethene	51.94	5.0	50	0	104	79 - 120				
Toluene	46.01	5.0	50	0	92.0	80 - 120				
trans-1,2-Dichloroethene	45.66	5.0	50	0	91.3	78 - 120				
trans-1,3-Dichloropropene	49.95	5.0	50	0	99.9	80 - 120				
Trichloroethene	49.26	5.0	50	0	98.5	80 - 120				
Vinyl chloride	41.58	2.0	50	0	83.2	70 - 127				
Xylenes, Total	152.1	15	150	0	101	80 - 120				
Surr: 1,2-Dichloroethane-d4	44.39	5.0	50	0	88.8	70 - 125				
Surr: 4-Bromofluorobenzene	50.12	5.0	50	0	100	72 - 125				
Surr: Dibromofluoromethane	46.78	5.0	50	0	93.6	71 - 125				
Surr: Toluene-d8	49.4	5.0	50	0	98.8	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231275		Instrument: VOA6		Method: SW8260						
MS		Sample ID: HS14040122-01AMS		Units: ug/L		Analysis Date: 04-Apr-2014 15:48				
Client ID: MW-72-0414		Run ID: VOA6_231275		SeqNo: 2776547		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	36.91	5.0	50	0	73.8	80 - 120				S
1,1,2,2-Tetrachloroethane	47.8	5.0	50	0	95.6	72 - 120				
1,1,2-Trichloroethane	47.36	5.0	50	0	94.7	80 - 120				
1,1-Dichloroethane	36.96	5.0	50	0	73.9	76 - 120				S
1,1-Dichloroethene	35.41	5.0	50	0	70.8	73 - 124				S
1,2,4-Trimethylbenzene	42.31	5.0	50	0	84.6	68 - 123				
1,2-Dibromoethane	47.16	5.0	50	0	94.3	80 - 120				
1,2-Dichloroethane	41.98	5.0	50	0	84.0	78 - 120				
1,2-Dichloropropane	42.64	5.0	50	0	85.3	80 - 120				
1,3,5-Trimethylbenzene	41.67	5.0	50	0	83.3	80 - 120				
2-Butanone	87.93	10	100	0	87.9	58 - 132				
2-Hexanone	110.4	10	100	0	110	61 - 130				
4-Isopropyltoluene	40.58	5.0	50	0	81.2	79 - 120				
4-Methyl-2-pentanone	101.7	10	100	0	102	65 - 127				
Acetone	90.41	10	100	0	90.4	59 - 137				
Benzene	39.12	5.0	50	0	78.2	73 - 121				
Bromodichloromethane	44.45	5.0	50	0	88.9	75 - 125				
Bromoform	52.79	5.0	50	0	106	70 - 130				
Bromomethane	35.9	5.0	50	0	71.8	60 - 145				
Carbon disulfide	81.35	10	100	0	81.4	68 - 141				
Carbon tetrachloride	37.12	5.0	50	0	74.2	75 - 125				S
Chlorobenzene	44.32	5.0	50	0	88.6	80 - 120				
Chloroethane	34.86	5.0	50	0	69.7	70 - 130				S
Chloroform	40.44	5.0	50	0	80.9	70 - 130				
Chloromethane	33.35	5.0	50	0	66.7	67 - 123				S
cis-1,2-Dichloroethene	40.29	5.0	50	0	80.6	78 - 120				
cis-1,3-Dichloropropene	45.57	5.0	50	0	91.1	80 - 120				
Dibromochloromethane	49.59	5.0	50	0	99.2	80 - 120				
Ethylbenzene	42.42	5.0	50	0	84.8	80 - 120				
Isopropylbenzene	41.07	5.0	50	0	82.1	75 - 130				
m,p-Xylene	86.19	10	100	0	86.2	78 - 121				
Methyl tert-butyl ether	42.34	5.0	50	0	84.7	73 - 121				
Methylene chloride	36.5	10	50	0	73.0	65 - 133				
Naphthalene	47.59	5.0	50	0	95.2	65 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231275		Instrument: VOA6		Method: SW8260						
MS		Sample ID: HS14040122-01AMS		Units: ug/L		Analysis Date: 04-Apr-2014 15:48				
Client ID: MW-72-0414		Run ID: VOA6_231275		SeqNo: 2776547		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	39.47	5.0	50	0	78.9	77 - 120				
n-Propylbenzene	40.73	5.0	50	0	81.5	78 - 120				
o-Xylene	44.73	5.0	50	0	89.5	80 - 120				
sec-Butylbenzene	39.27	5.0	50	0	78.5	78 - 120				
Styrene	47.21	5.0	50	0	94.4	80 - 120				
Tetrachloroethene	39.36	5.0	50	0	78.7	79 - 120				S
Toluene	40.08	5.0	50	0	80.2	80 - 120				
trans-1,2-Dichloroethene	38.45	5.0	50	0	76.9	78 - 120				S
trans-1,3-Dichloropropene	49.06	5.0	50	0	98.1	80 - 120				
Trichloroethene	41.62	5.0	50	0	83.2	80 - 120				
Vinyl chloride	33.33	2.0	50	0	66.7	70 - 127				S
Xylenes, Total	130.9	15	150	0	87.3	80 - 120				
Surr: 1,2-Dichloroethane-d4	44.48	5.0	50	0	89.0	70 - 125				
Surr: 4-Bromofluorobenzene	49.99	5.0	50	0	100.0	72 - 125				
Surr: Dibromofluoromethane	46.59	5.0	50	0	93.2	71 - 125				
Surr: Toluene-d8	49.72	5.0	50	0	99.4	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231275		Instrument: VOA6		Method: SW8260						
MSD		Sample ID: HS14040122-01AMSD		Units: ug/L		Analysis Date: 04-Apr-2014 16:15				
Client ID: MW-72-0414		Run ID: VOA6_231275		SeqNo: 2776548		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	39.77	5.0	50	0	79.5	80 - 120	36.91	7.45	20	S
1,1,2,2-Tetrachloroethane	52.61	5.0	50	0	105	72 - 120	47.8	9.59	20	
1,1,2-Trichloroethane	50.78	5.0	50	0	102	80 - 120	47.36	6.98	20	
1,1-Dichloroethane	41.15	5.0	50	0	82.3	76 - 120	36.96	10.7	20	
1,1-Dichloroethene	37.36	5.0	50	0	74.7	73 - 124	35.41	5.34	20	
1,2,4-Trimethylbenzene	45.27	5.0	50	0	90.5	68 - 123	42.31	6.77	20	
1,2-Dibromoethane	50.83	5.0	50	0	102	80 - 120	47.16	7.5	20	
1,2-Dichloroethane	44.72	5.0	50	0	89.4	78 - 120	41.98	6.33	20	
1,2-Dichloropropane	46.85	5.0	50	0	93.7	80 - 120	42.64	9.41	20	
1,3,5-Trimethylbenzene	44.69	5.0	50	0	89.4	80 - 120	41.67	7.01	20	
2-Butanone	102.7	10	100	0	103	58 - 132	87.93	15.5	20	
2-Hexanone	129.7	10	100	0	130	61 - 130	110.4	16.1	20	
4-Isopropyltoluene	44.23	5.0	50	0	88.5	79 - 120	40.58	8.62	20	
4-Methyl-2-pentanone	127.1	10	100	0	127	65 - 127	101.7	22.2	20	SR
Acetone	97.09	10	100	0	97.1	59 - 137	90.41	7.13	20	
Benzene	43.81	5.0	50	0	87.6	73 - 121	39.12	11.3	20	
Bromodichloromethane	46.2	5.0	50	0	92.4	75 - 125	44.45	3.86	20	
Bromoform	56.94	5.0	50	0	114	70 - 130	52.79	7.56	20	
Bromomethane	29.52	5.0	50	0	59.0	60 - 145	35.9	19.5	20	S
Carbon disulfide	80.6	10	100	0	80.6	68 - 141	81.35	0.931	20	
Carbon tetrachloride	38.31	5.0	50	0	76.6	75 - 125	37.12	3.15	20	
Chlorobenzene	47.66	5.0	50	0	95.3	80 - 120	44.32	7.27	20	
Chloroethane	35.17	5.0	50	0	70.3	76 - 121	34.86	0.872	20	S
Chloroform	42.43	5.0	50	0	84.9	70 - 130	40.44	4.8	20	
Chloromethane	29.85	5.0	50	0	59.7	67 - 123	33.35	11.1	20	S
cis-1,2-Dichloroethene	42.3	5.0	50	0	84.6	78 - 120	40.29	4.87	20	
cis-1,3-Dichloropropene	47.44	5.0	50	0	94.9	80 - 120	45.57	4.02	20	
Dibromochloromethane	52.47	5.0	50	0	105	80 - 120	49.59	5.63	20	
Ethylbenzene	45.5	5.0	50	0	91.0	80 - 120	42.42	7	20	
Isopropylbenzene	44.74	5.0	50	0	89.5	75 - 130	41.07	8.55	20	
m,p-Xylene	91.85	10	100	0	91.8	78 - 121	86.19	6.35	20	
Methyl tert-butyl ether	43.57	5.0	50	0	87.1	73 - 121	42.34	2.86	20	
Methylene chloride	39.12	10	50	0	78.2	65 - 133	36.5	6.92	20	
Naphthalene	53.35	5.0	50	0	107	65 - 135	47.59	11.4	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231275		Instrument: VOA6		Method: SW8260						
MSD		Sample ID: HS14040122-01AMSD		Units: ug/L		Analysis Date: 04-Apr-2014 16:15				
Client ID: MW-72-0414		Run ID: VOA6_231275		SeqNo: 2776548		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	43.69	5.0	50	0	87.4	77 - 120	39.47	10.1	20	
n-Propylbenzene	43.9	5.0	50	0	87.8	78 - 120	40.73	7.48	20	
o-Xylene	47.79	5.0	50	0	95.6	80 - 120	44.73	6.61	20	
sec-Butylbenzene	43.11	5.0	50	0	86.2	78 - 120	39.27	9.32	20	
Styrene	49.87	5.0	50	0	99.7	80 - 120	47.21	5.47	20	
Tetrachloroethene	42.96	5.0	50	0	85.9	79 - 120	39.36	8.74	20	
Toluene	43.93	5.0	50	0	87.9	80 - 120	40.08	9.17	20	
trans-1,2-Dichloroethene	41.73	5.0	50	0	83.5	78 - 120	38.45	8.18	20	
trans-1,3-Dichloropropene	49.39	5.0	50	0	98.8	80 - 120	49.06	0.664	20	
Trichloroethene	43.39	5.0	50	0	86.8	80 - 120	41.62	4.16	20	
Vinyl chloride	33.45	2.0	50	0	66.9	70 - 127	33.33	0.373	20	S
Xylenes, Total	139.6	15	150	0	93.1	78 - 121	130.9	6.44	20	
Surr: 1,2-Dichloroethane-d4	43.53	5.0	50	0	87.1	70 - 125	44.48	2.15	20	
Surr: 4-Bromofluorobenzene	50.17	5.0	50	0	100	72 - 125	49.99	0.372	20	
Surr: Dibromofluoromethane	44.96	5.0	50	0	89.9	71 - 125	46.59	3.57	20	
Surr: Toluene-d8	50.99	5.0	50	0	102	75 - 125	49.72	2.53	20	
The following samples were analyzed in this batch:										
HS14040122-01A		HS14040122-03A		HS14040122-05A		HS14040122-07A				
HS14040122-09A		HS14040122-11A		HS14040122-13A		HS14040122-15A				
HS14040122-17A		HS14040122-19A		HS14040122-21A		HS14040122-23A				
HS14040122-25A		HS14040122-27A		HS14040122-29A		HS14040122-31A				
HS14040122-33A		HS14040122-35A								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231301		Instrument: VOA6		Method: SW8260						
MBLK		Sample ID: VBLKW-140406		Units: ug/L		Analysis Date: 06-Apr-2014 13:21				
Client ID:		Run ID: VOA6_231301		SeqNo: 2777402		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U		5.0							
1,1,2,2-Tetrachloroethane	U		5.0							
1,1,2-Trichloroethane	U		5.0							
1,1-Dichloroethane	U		5.0							
1,1-Dichloroethene	U		5.0							
1,2,4-Trimethylbenzene	U		5.0							
1,2-Dibromoethane	U		5.0							
1,2-Dichloroethane	U		5.0							
1,2-Dichloropropane	U		5.0							
1,3,5-Trimethylbenzene	U		5.0							
2-Butanone	U		10							
2-Hexanone	U		10							
4-Isopropyltoluene	U		5.0							
4-Methyl-2-pentanone	U		10							
Acetone	U		10							
Benzene	U		5.0							
Bromodichloromethane	U		5.0							
Bromoform	U		5.0							
Bromomethane	U		5.0							
Carbon disulfide	U		10							
Carbon tetrachloride	U		5.0							
Chlorobenzene	U		5.0							
Chloroethane	U		5.0							
Chloroform	U		5.0							
Chloromethane	U		5.0							
cis-1,2-Dichloroethene	U		5.0							
cis-1,3-Dichloropropene	U		5.0							
Dibromochloromethane	U		5.0							
Ethylbenzene	U		5.0							
Isopropylbenzene	U		5.0							
m,p-Xylene	U		10							
Methyl tert-butyl ether	U		5.0							
Methylene chloride	U		10							
Naphthalene	U		5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231301			Instrument: VOA6			Method: SW8260				
MBLK		Sample ID: VBLKW-140406		Units: ug/L		Analysis Date: 06-Apr-2014 13:21				
Client ID:		Run ID: VOA6_231301		SeqNo: 2777402		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	U	5.0								
n-Propylbenzene	U	5.0								
o-Xylene	U	5.0								
sec-Butylbenzene	U	5.0								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,2-Dichloroethene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Vinyl chloride	U	2.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	45.53	5.0	50	0	91.1	70 - 125				
Surr: 4-Bromofluorobenzene	49.39	5.0	50	0	98.8	72 - 125				
Surr: Dibromofluoromethane	46.97	5.0	50	0	93.9	71 - 125				
Surr: Toluene-d8	49.1	5.0	50	0	98.2	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231301		Instrument: VOA6		Method: SW8260						
LCS	Sample ID: VLCSW-140406	Units: ug/L				Analysis Date: 06-Apr-2014 12:12				
Client ID:	Run ID: VOA6_231301	SeqNo: 2777401		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.26	5.0	50	0	92.5	80 - 120				
1,1,2,2-Tetrachloroethane	46.99	5.0	50	0	94.0	72 - 120				
1,1,2-Trichloroethane	47.96	5.0	50	0	95.9	80 - 120				
1,1-Dichloroethane	38.74	5.0	50	0	77.5	76 - 120				
1,1-Dichloroethene	46.38	5.0	50	0	92.8	73 - 124				
1,2,4-Trimethylbenzene	50.12	5.0	50	0	100	68 - 123				
1,2-Dibromoethane	47.67	5.0	50	0	95.3	80 - 120				
1,2-Dichloroethane	41.28	5.0	50	0	82.6	78 - 120				
1,2-Dichloropropane	47.79	5.0	50	0	95.6	80 - 120				
1,3,5-Trimethylbenzene	50.33	5.0	50	0	101	80 - 120				
2-Butanone	83.89	10	100	0	83.9	58 - 132				
2-Hexanone	93.79	10	100	0	93.8	61 - 130				
4-Isopropyltoluene	51.96	5.0	50	0	104	79 - 120				
4-Methyl-2-pentanone	95.76	10	100	0	95.8	65 - 127				
Acetone	91.8	10	100	0	91.8	59 - 137				
Benzene	45.51	5.0	50	0	91.0	73 - 121				
Bromodichloromethane	46.6	5.0	50	0	93.2	75 - 125				
Bromoform	53.75	5.0	50	0	107	70 - 130				
Bromomethane	39.17	5.0	50	0	78.3	60 - 145				
Carbon disulfide	108	10	100	0	108	68 - 141				
Carbon tetrachloride	47.16	5.0	50	0	94.3	75 - 125				
Chlorobenzene	48.83	5.0	50	0	97.7	80 - 120				
Chloroethane	44.46	5.0	50	0	88.9	70 - 130				
Chloroform	44.56	5.0	50	0	89.1	70 - 130				
Chloromethane	40.45	5.0	50	0	80.9	67 - 123				
cis-1,2-Dichloroethene	40.61	5.0	50	0	81.2	78 - 120				
cis-1,3-Dichloropropene	49.68	5.0	50	0	99.4	80 - 120				
Dibromochloromethane	51.47	5.0	50	0	103	80 - 120				
Ethylbenzene	49.87	5.0	50	0	99.7	80 - 120				
Isopropylbenzene	50.81	5.0	50	0	102	75 - 130				
m,p-Xylene	101.2	10	100	0	101	78 - 121				
Methyl tert-butyl ether	37.07	5.0	50	0	74.1	73 - 121				
Methylene chloride	36.66	10	50	0	73.3	65 - 133				
Naphthalene	47.29	5.0	50	0	94.6	65 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231301		Instrument: VOA6		Method: SW8260						
LCS	Sample ID: VLCSW-140406	Units: ug/L				Analysis Date: 06-Apr-2014 12:12				
Client ID:	Run ID: VOA6_231301	SeqNo: 2777401				PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	52.56	5.0	50	0	105	77 - 120				
n-Propylbenzene	51.11	5.0	50	0	102	78 - 120				
o-Xylene	50.75	5.0	50	0	102	80 - 120				
sec-Butylbenzene	51.47	5.0	50	0	103	78 - 120				
Styrene	51.93	5.0	50	0	104	80 - 120				
Tetrachloroethene	50.43	5.0	50	0	101	79 - 120				
Toluene	47.28	5.0	50	0	94.6	80 - 120				
trans-1,2-Dichloroethene	41.83	5.0	50	0	83.7	78 - 120				
trans-1,3-Dichloropropene	51.61	5.0	50	0	103	80 - 120				
Trichloroethene	47.8	5.0	50	0	95.6	80 - 120				
Vinyl chloride	44.46	2.0	50	0	88.9	70 - 127				
Xylenes, Total	151.9	15	150	0	101	80 - 120				
Surr: 1,2-Dichloroethane-d4	44.36	5.0	50	0	88.7	70 - 125				
Surr: 4-Bromofluorobenzene	49.25	5.0	50	0	98.5	72 - 125				
Surr: Dibromofluoromethane	46.28	5.0	50	0	92.6	71 - 125				
Surr: Toluene-d8	50.36	5.0	50	0	101	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231301		Instrument: VOA6		Method: SW8260						
MS		Sample ID: HS14040122-37AMS		Units: ug/L		Analysis Date: 06-Apr-2014 15:25				
Client ID: MW-121-0414		Run ID: VOA6_231301		SeqNo: 2777407		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.51	5.0	50	0	83.0	80 - 120				
1,1,2,2-Tetrachloroethane	48.3	5.0	50	0	96.6	72 - 120				
1,1,2-Trichloroethane	49.88	5.0	50	0	99.8	80 - 120				
1,1-Dichloroethane	42.44	5.0	50	0	84.9	76 - 120				
1,1-Dichloroethene	44.9	5.0	50	0	89.8	73 - 124				
1,2,4-Trimethylbenzene	42.95	5.0	50	0	85.9	68 - 123				
1,2-Dibromoethane	48.66	5.0	50	0	97.3	80 - 120				
1,2-Dichloroethane	42.66	5.0	50	0	85.3	78 - 120				
1,2-Dichloropropane	47.93	5.0	50	0	95.9	80 - 120				
1,3,5-Trimethylbenzene	43.17	5.0	50	0	86.3	80 - 120				
2-Butanone	109	10	100	0	109	58 - 132				
2-Hexanone	112	10	100	0	112	61 - 130				
4-Isopropyltoluene	41.54	5.0	50	0	83.1	79 - 120				
4-Methyl-2-pentanone	113.1	10	100	0	113	65 - 127				
Acetone	220.4	10	100	0	220	59 - 137				S
Benzene	44.52	5.0	50	0	89.0	73 - 121				
Bromodichloromethane	47.64	5.0	50	0	95.3	75 - 125				
Bromoform	54.49	5.0	50	0	109	70 - 130				
Bromomethane	40.38	5.0	50	0	80.8	60 - 145				
Carbon disulfide	99.83	10	100	0	99.8	68 - 141				
Carbon tetrachloride	40.97	5.0	50	0	81.9	75 - 125				
Chlorobenzene	46.16	5.0	50	0	92.3	80 - 120				
Chloroethane	40.41	5.0	50	0	80.8	70 - 130				
Chloroform	44.11	5.0	50	0	88.2	70 - 130				
Chloromethane	39.1	5.0	50	0	78.2	67 - 123				
cis-1,2-Dichloroethene	45.77	5.0	50	0	91.5	78 - 120				
cis-1,3-Dichloropropene	50.04	5.0	50	0	100	80 - 120				
Dibromochloromethane	51.97	5.0	50	0	104	80 - 120				
Ethylbenzene	44.84	5.0	50	0	89.7	80 - 120				
Isopropylbenzene	43.07	5.0	50	0	86.1	75 - 130				
m,p-Xylene	91.05	10	100	0	91.1	78 - 121				
Methyl tert-butyl ether	44.04	5.0	50	0	88.1	73 - 121				
Methylene chloride	41.22	10	50	0	82.4	65 - 133				
Naphthalene	45.24	5.0	50	0	90.5	65 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231301		Instrument: VOA6		Method: SW8260						
MS		Sample ID: HS14040122-37AMS		Units: ug/L		Analysis Date: 06-Apr-2014 15:25				
Client ID: MW-121-0414		Run ID: VOA6_231301		SeqNo: 2777407		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	40.89	5.0	50	0	81.8	77 - 120				
n-Propylbenzene	42.66	5.0	50	0	85.3	78 - 120				
o-Xylene	46.05	5.0	50	0	92.1	80 - 120				
sec-Butylbenzene	40.83	5.0	50	0	81.7	78 - 120				
Styrene	48.97	5.0	50	0	97.9	80 - 120				
Tetrachloroethene	42.27	5.0	50	0	84.5	79 - 120				
Toluene	44.21	5.0	50	0	88.4	80 - 120				
trans-1,2-Dichloroethene	44.36	5.0	50	0	88.7	78 - 120				
trans-1,3-Dichloropropene	51.44	5.0	50	0	103	80 - 120				
Trichloroethene	45.18	5.0	50	0	90.4	80 - 120				
Vinyl chloride	39.23	2.0	50	0	78.5	70 - 127				
Xylenes, Total	137.1	15	150	0	91.4	80 - 120				
Surr: 1,2-Dichloroethane-d4	44.14	5.0	50	0	88.3	70 - 125				
Surr: 4-Bromofluorobenzene	49.99	5.0	50	0	100.0	72 - 125				
Surr: Dibromofluoromethane	46.31	5.0	50	0	92.6	71 - 125				
Surr: Toluene-d8	50.09	5.0	50	0	100	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231301		Instrument: VOA6		Method: SW8260						
MSD		Sample ID: HS14040122-37AMSD		Units: ug/L		Analysis Date: 06-Apr-2014 15:48				
Client ID: MW-121-0414		Run ID: VOA6_231301		SeqNo: 2777408		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.61	5.0	50	0	87.2	80 - 120	41.51	4.93	20	
1,1,2,2-Tetrachloroethane	49.45	5.0	50	0	98.9	72 - 120	48.3	2.35	20	
1,1,2-Trichloroethane	50.83	5.0	50	0	102	80 - 120	49.88	1.88	20	
1,1-Dichloroethane	44.04	5.0	50	0	88.1	76 - 120	42.44	3.68	20	
1,1-Dichloroethene	45.26	5.0	50	0	90.5	73 - 124	44.9	0.788	20	
1,2,4-Trimethylbenzene	46.03	5.0	50	0	92.1	68 - 123	42.95	6.93	20	
1,2-Dibromoethane	49.88	5.0	50	0	99.8	80 - 120	48.66	2.49	20	
1,2-Dichloroethane	42.56	5.0	50	0	85.1	78 - 120	42.66	0.235	20	
1,2-Dichloropropane	48.19	5.0	50	0	96.4	80 - 120	47.93	0.536	20	
1,3,5-Trimethylbenzene	46.5	5.0	50	0	93.0	80 - 120	43.17	7.42	20	
2-Butanone	101.6	10	100	0	102	58 - 132	109	7.03	20	
2-Hexanone	116.6	10	100	0	117	61 - 130	112	4.03	20	
4-Isopropyltoluene	46.78	5.0	50	0	93.6	79 - 120	41.54	11.9	20	
4-Methyl-2-pentanone	116.5	10	100	0	116	65 - 127	113.1	2.97	20	
Acetone	101.9	10	100	0	102	59 - 137	220.4	73.6	20	R
Benzene	44.57	5.0	50	0	89.1	73 - 121	44.52	0.11	20	
Bromodichloromethane	46.98	5.0	50	0	94.0	75 - 125	47.64	1.38	20	
Bromoform	56.47	5.0	50	0	113	70 - 130	54.49	3.58	20	
Bromomethane	40.23	5.0	50	0	80.5	60 - 145	40.38	0.385	20	
Carbon disulfide	101.9	10	100	0	102	68 - 141	99.83	2.04	20	
Carbon tetrachloride	43.06	5.0	50	0	86.1	75 - 125	40.97	4.97	20	
Chlorobenzene	48.03	5.0	50	0	96.1	80 - 120	46.16	3.96	20	
Chloroethane	40.93	5.0	50	0	81.9	76 - 121	40.41	1.29	20	
Chloroform	45.34	5.0	50	0	90.7	70 - 130	44.11	2.76	20	
Chloromethane	38.92	5.0	50	0	77.8	67 - 123	39.1	0.468	20	
cis-1,2-Dichloroethene	46.05	5.0	50	0	92.1	78 - 120	45.77	0.616	20	
cis-1,3-Dichloropropene	50.14	5.0	50	0	100	80 - 120	50.04	0.204	20	
Dibromochloromethane	53.26	5.0	50	0	107	80 - 120	51.97	2.46	20	
Ethylbenzene	47.62	5.0	50	0	95.2	80 - 120	44.84	6.03	20	
Isopropylbenzene	47.09	5.0	50	0	94.2	75 - 130	43.07	8.93	20	
m,p-Xylene	94.7	10	100	0	94.7	78 - 121	91.05	3.93	20	
Methyl tert-butyl ether	44.82	5.0	50	0	89.6	73 - 121	44.04	1.76	20	
Methylene chloride	41.87	10	50	0	83.7	65 - 133	41.22	1.56	20	
Naphthalene	49.42	5.0	50	0	98.8	65 - 135	45.24	8.84	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231301		Instrument: VOA6		Method: SW8260						
MSD		Sample ID: HS14040122-37AMSD		Units: ug/L		Analysis Date: 06-Apr-2014 15:48				
Client ID: MW-121-0414		Run ID: VOA6_231301		SeqNo: 2777408		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	45.3	5.0	50	0	90.6	77 - 120	40.89	10.2	20	
n-Propylbenzene	45.68	5.0	50	0	91.4	78 - 120	42.66	6.84	20	
o-Xylene	48.57	5.0	50	0	97.1	80 - 120	46.05	5.33	20	
sec-Butylbenzene	46.07	5.0	50	0	92.1	78 - 120	40.83	12.1	20	
Styrene	50.79	5.0	50	0	102	80 - 120	48.97	3.63	20	
Tetrachloroethene	46.18	5.0	50	0	92.4	79 - 120	42.27	8.84	20	
Toluene	46.1	5.0	50	0	92.2	80 - 120	44.21	4.18	20	
trans-1,2-Dichloroethene	45.83	5.0	50	0	91.7	78 - 120	44.36	3.25	20	
trans-1,3-Dichloropropene	52.16	5.0	50	0	104	80 - 120	51.44	1.39	20	
Trichloroethene	46.15	5.0	50	0	92.3	80 - 120	45.18	2.12	20	
Vinyl chloride	38.9	2.0	50	0	77.8	70 - 127	39.23	0.86	20	
Xylenes, Total	143.3	15	150	0	95.5	78 - 121	137.1	4.4	20	
Surr: 1,2-Dichloroethane-d4	44.49	5.0	50	0	89.0	70 - 125	44.14	0.777	20	
Surr: 4-Bromofluorobenzene	50.86	5.0	50	0	102	72 - 125	49.99	1.72	20	
Surr: Dibromofluoromethane	46.64	5.0	50	0	93.3	71 - 125	46.31	0.719	20	
Surr: Toluene-d8	50.69	5.0	50	0	101	75 - 125	50.09	1.18	20	
The following samples were analyzed in this batch:										
HS14040122-37A			HS14040122-39A			HS14040122-41A				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: 80788		Instrument: Gall01		Method: SW9012						
MBLK	Sample ID: MBLK-80788	Units: mg/L				Analysis Date: 15-Apr-2014 18:25				
Client ID:	Run ID: Gall01_231941	SeqNo: 2793927				PrepDate: 14-Apr-2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	U	0.0200								

LCS	Sample ID: LCS-80788	Units: mg/L				Analysis Date: 15-Apr-2014 18:26				
Client ID:	Run ID: Gall01_231941	SeqNo: 2793928				PrepDate: 14-Apr-2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.184	0.0200	0.2	0	92.0	80 - 120				

LCSD	Sample ID: LCS-80788DUP	Units: mg/L				Analysis Date: 15-Apr-2014 18:27				
Client ID:	Run ID: Gall01_231941	SeqNo: 2793929				PrepDate: 14-Apr-2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1842	0.0200	0.2	0	92.1	80 - 120	0.184	0.103	20	

MS	Sample ID: HS14040122-27GMS	Units: mg/L				Analysis Date: 15-Apr-2014 18:34				
Client ID: EB-2-0414	Run ID: Gall01_231941	SeqNo: 2793935				PrepDate: 14-Apr-2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.184	0.0200	0.2	0.00203	91.0	80 - 120				

The following samples were analyzed in this batch:										
HS14040122-23G				HS14040122-27G						

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231436		Instrument: Balance1		Method: M2540C					
MBLK	Sample ID: WBLK-040714	Units: mg/L		Analysis Date: 08-Apr-2014 17:46					
Client ID:	Run ID: Balance1_231436	SeqNo: 2780885		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable) U 10.0									
LCS	Sample ID: WLCS-040714	Units: mg/L		Analysis Date: 08-Apr-2014 17:46					
Client ID:	Run ID: Balance1_231436	SeqNo: 2780886		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable) 942 10.0 1000 0 94.2 85 - 115									
DUP	Sample ID: HS14040122-21EDUP	Units: mg/L		Analysis Date: 08-Apr-2014 17:46					
Client ID: DUP-1-0414	Run ID: Balance1_231436	SeqNo: 2780884		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable) 5600 10.0 5460 2.53 10									
The following samples were analyzed in this batch:									
HS14040122-01E HS14040122-03E HS14040122-05E HS14040122-07E HS14040122-21E									

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231532		Instrument: Balance1		Method: M2540C					
MBLK	Sample ID: WBLK-040814	Units: mg/L		Analysis Date: 08-Apr-2014 09:45					
Client ID:	Run ID: Balance1_231532	SeqNo: 2783367		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0						
LCS	Sample ID: WLCS-040814	Units: mg/L		Analysis Date: 08-Apr-2014 09:45					
Client ID:	Run ID: Balance1_231532	SeqNo: 2783368		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		994	10.0	1000	0	99.4	85 - 115		
DUP	Sample ID: HS14040122-33EDUP	Units: mg/L		Analysis Date: 08-Apr-2014 09:45					
Client ID: MW-2A-0414	Run ID: Balance1_231532	SeqNo: 2783365		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		16880	10.0			16240	3.86	10	
DUP	Sample ID: HS14040068-01GDUP	Units: mg/L		Analysis Date: 08-Apr-2014 09:45					
Client ID:	Run ID: Balance1_231532	SeqNo: 2783346		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		588	10.0			650	10	10	R
The following samples were analyzed in this batch:									
		HS14040122-09E	HS14040122-11E	HS14040122-13E	HS14040122-15E				
		HS14040122-17E	HS14040122-19E	HS14040122-23E	HS14040122-25E				
		HS14040122-27E	HS14040122-29E	HS14040122-31E	HS14040122-33E				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R231649		Instrument: Balance1		Method: M2540C					
MBLK	Sample ID: WBLK-040914	Units: mg/L		Analysis Date: 09-Apr-2014 09:55					
Client ID:	Run ID: Balance1_231649	SeqNo: 2786499		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0						
LCS	Sample ID: WLCS-040914	Units: mg/L		Analysis Date: 09-Apr-2014 09:55					
Client ID:	Run ID: Balance1_231649	SeqNo: 2786500		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		970	10.0	1000	0	97.0	85 - 115		
DUP	Sample ID: HS14040178-05BDUP	Units: mg/L		Analysis Date: 09-Apr-2014 09:55					
Client ID:	Run ID: Balance1_231649	SeqNo: 2786488		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		1460	10.0			1560	6.62	10	
DUP	Sample ID: HS14040122-35EDUP	Units: mg/L		Analysis Date: 09-Apr-2014 09:55					
Client ID: MW-122-0414	Run ID: Balance1_231649	SeqNo: 2786480		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		5120	10.0			5740	11.4	10	R
The following samples were anayzed in this batch:									
HS14040122-35E			HS14040122-37E			HS14040122-39E			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R232054		Instrument: ICS2100		Method: E300					
MBLK	Sample ID: WBLKW	Units: mg/L				Analysis Date: 16-Apr-2014 17:38			
Client ID:	Run ID: ICS2100_232054	SeqNo: 2796680		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitrite (as N)		U	0.200						

LCS	Sample ID: WLCSW	Units: mg/L				Analysis Date: 16-Apr-2014 17:52			
Client ID:	Run ID: ICS2100_232054	SeqNo: 2796681		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitrite (as N)		8.529	0.200	8	0	107	90 - 110		

MS	Sample ID: HS14040122-25FMS	Units: mg/L				Analysis Date: 16-Apr-2014 08:33			
Client ID: MW-79-0414	Run ID: ICS2100_232054	SeqNo: 2796666		PrepDate:		DF: 5			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitrite (as N)		31.61	1.00	20	12.49	95.6	80 - 120		

MSD	Sample ID: HS14040122-25FMSD	Units: mg/L				Analysis Date: 16-Apr-2014 08:48				
Client ID: MW-79-0414	Run ID: ICS2100_232054	SeqNo: 2796667		PrepDate:		DF: 5				
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Nitrate/Nitrite (as N)		32.9	1.00	20	12.49	102	80 - 120	31.61	4.01	20

The following samples were analyzed in this batch:	HS14040122-01F	HS14040122-03F	HS14040122-05F	HS14040122-07F
	HS14040122-09F	HS14040122-11F	HS14040122-13F	HS14040122-15F
	HS14040122-17F	HS14040122-19F	HS14040122-21F	HS14040122-23F
	HS14040122-25F	HS14040122-27F	HS14040122-29F	HS14040122-31F
	HS14040122-33F	HS14040122-35F	HS14040122-37F	HS14040122-39F

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R232066		Instrument: ICS2100		Method: E300						
MBLK	Sample ID: WBLKW2	Units: mg/L				Analysis Date: 15-Apr-2014 21:39				
Client ID:		Run ID: ICS2100_232066		SeqNo: 2796848		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.500								
Fluoride	U	0.100								
Sulfate	U	0.500								

LCS	Sample ID: WLCSW2	Units: mg/L				Analysis Date: 15-Apr-2014 21:53				
Client ID:		Run ID: ICS2100_232066		SeqNo: 2796849		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.79	0.500	20	0	104	90 - 110				
Fluoride	3.786	0.100	4	0	94.6	90 - 110				
Sulfate	20.43	0.500	20	0	102	90 - 110				

MS	Sample ID: HS14040122-37EMS	Units: mg/L				Analysis Date: 16-Apr-2014 03:43				
Client ID: MW-121-0414		Run ID: ICS2100_232066		SeqNo: 2796876		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1899	0.500	10	1922	-228	80 - 120				
Fluoride	5.122	0.100	2	3.853	63.4	80 - 120				
Sulfate	2171	0.500	10	2178	-68.7	80 - 120				

MSD	Sample ID: HS14040122-37EMSD	Units: mg/L				Analysis Date: 16-Apr-2014 03:57				
Client ID: MW-121-0414		Run ID: ICS2100_232066		SeqNo: 2796877		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1916	0.500	10	1922	-59.3	80 - 120	1899	0.884	20	SEO
Fluoride	5.095	0.100	2	3.853	62.1	80 - 120	5.122	0.529	20	S
Sulfate	2181	0.500	10	2178	30.5	80 - 120	2171	0.456	20	SEO

The following samples were analyzed in this batch:		HS14040122-01E	HS14040122-03E	HS14040122-05E	HS14040122-07E
		HS14040122-09E	HS14040122-11E	HS14040122-13E	HS14040122-15E
		HS14040122-17E	HS14040122-19E	HS14040122-21E	HS14040122-23E
		HS14040122-25E	HS14040122-27E	HS14040122-29E	HS14040122-31E
		HS14040122-33E	HS14040122-35E	HS14040122-37E	HS14040122-39E

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040122
 Project: SA-Artesia Refinery-EP SA GW

QC BATCH REPORT

Batch ID: R232075		Instrument: ICS3K2		Method: E300						
MBLK	Sample ID: WBLKW2	Units: mg/L			Analysis Date: 17-Apr-2014 01:53					
Client ID:	Run ID: ICS3K2_232075		SeqNo: 2797052		PrepDate:		DF: 1			
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Chloride U 0.500

Sulfate U 0.500

LCS	Sample ID: WLCSW2	Units: mg/L			Analysis Date: 17-Apr-2014 02:17				
Client ID:		Run ID: ICS3K2_232075	SeqNo: 2797053		PrepDate:			DF: 1	
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 20.24 0.500 20 0 101 90 - 110

Sulfate 19.98 0.500 20 0 99.9 90 - 110

MS									
Sample ID: HS14040122-25EMS		Units: mg/L			Analysis Date: 17-Apr-2014 08:19				
Client ID: MW-79-0414	Run ID: ICS3K2_232075		SeqNo: 2797068		PrepDate:			DF: 50	
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 2298 25.0 500 1814 96.9 80 - 120

Sulfate 3142 25.0 500 2691 90.1 80 - 120 O

MSD									
Sample ID: HS14040122-25EMSD		Units: mg/L		Analysis Date: 17-Apr-2014 08:43					
Client ID: MW-79-0414		Run ID: ICS3K2_232075		SeqNo: 2797069		PrepDate:		DF: 50	
Analyte	Result	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 2294 25.0 500 1814 96.1 80 - 120 2298 0.175 20

Sulfate 3143 25.0 500 2691 90.4 80 - 120 3142 0.0498 20 O

The following samples were analyzed in this batch:									
HS14040122-01E	HS14040122-03E	HS14040122-05E	HS14040122-07E						
HS14040122-09E	HS14040122-11E	HS14040122-13E	HS14040122-15E						
HS14040122-17E	HS14040122-19E	HS14040122-21E	HS14040122-25E						
HS14040122-29E	HS14040122-31E	HS14040122-33E	HS14040122-35E						
HS14040122-37E	HS14040122-39E								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery-EP SA GW
WorkOrder: HS14040122

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	AR - 2014	27-Mar-2015
California	06248CA 2013-2014	31-Jul-2014
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003403	09-May-2015
Kansas	E-10352 8/15/2013-2014	31-Jul-2014
Kentucky	KY 2014-2015	30-Apr-2015
North Carolina	624 - 2014	31-Dec-2014
North Dakota	R-193 2025	30-Apr-2015
Oklahoma	2013-024	31-Aug-2014
Texas	TX104704231-14-13	30-Apr-2015

Sample Receipt Checklist

Client Name: NAVAJO REFINING

Date/Time Received: **03-Apr-2014 09:15**

Work Order: HS14040122

Received by: **DRC**Checklist completed by: Sonia West 3-Apr-2014
eSignature DateReviewed by: Sonia West 4-Apr-2014
eSignature DateMatrices: **Water**Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s): 1.4/1.4, 2.0/2.0, 1.0/1.0, 1.9/1.9, 2.1/2.1, 2.3/2.3C u/c IR3

Cooler(s)/Kit(s): 6010,3206,3094,2811,5541,5572

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes ☒ No ☐ No VOA vials submitted ☐Water - pH acceptable upon receipt? Yes ☒ No ☐ N/A ☐pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



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COC ID: **93415**

ALS Project Manager:

14040122

NAVAJO REFINING: Navajo Refining Company

Project: SA-Artesia Refinery-EP SA GW



Customer Information						Project Information						ALS Project Manager:												
Purchase Order	173653					Project Name	SA- Artesia Refinery-EP SA GW					A	VOC (3200) Select											
Work Order						Project Number						B	GRO (9015M)											
Company Name	Navajo Refining Company					Bill To Company	Navajo Refining Company					C	DRO (9015M)											
Send Report To	Aaron Strange					Invoice Attn	Carrie Hernandez					D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se											
Address	PO Box 159					Address	PO Box 159					E	Total Metals (6020/7470) Hg, Ni, V											
City/State/Zip	Artesia, NM 88211					City/State/Zip	Artesia, NM 88211					F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS											
Phone	(575) 748-6733					Phone	(575) 748-6733					G	Cyanide (9014)											
Fax	(575) 748-5421					Fax	(575) 748-5421					H	Nitrate/Nitrite as N (preserved)											
e-Mail Address	robert.combs@navajo-refining.com					e-Mail Address	robert.combs@navajo-refining.com					I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se											
												J	Dis. Metals (6020/7470) Hg, Ni, V											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold							
1	mw-72-0414	04/01/14	0815	HW	23.8	6			X	X		X		X										
2	mw-72-0414-D	04/01/14	0820	HW	2.8	1									X									
3	mw-73-0414	04/01/14	0905	HW	23.8	6			X	X		X		X										
4	mw-73-0414-D	04/01/14	0910	HW	2.8	1									X									
5	mw-74-0414	04/01/14	0950	HW	23.8	6			X	X		X		X										
6	mw-74-0414-D	04/01/14	0950	HW	2.8	1									X									
7	mw-75-0414	04/01/14	1040	HW	23.8	6			X	X		X		X										
8	mw-75-0414-D	04/01/14	1040	HW	2.8	1									X									
9																								
10																								

Sampler(s) Please Print & Sign				Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:			
Jose, Jerry Son Jerry				FedEx		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other _____ ☐ 2 WK Days ☐ 24 Hour							
Relinquished by:		Date:	Time:	Received by:		Notes:							
Jose, Jerry		04/02/14	1500	D. Combs		10 Work Days TAT. CC Pam Krueger/Arcadis							
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)			
Jose, Jerry		4/13/14	915	D. Combs						☒ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW64/CLP ☐ Other / EDD			
Logged by (Laboratory):				Date:		Time:		Checked by (Laboratory):					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035													

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South Charleston, WV
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Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order	473954 173653	Project Name	SA- Artesia Refinery-EP SA GW	A	VOC (8260) Select												
Work Order		Project Number		B	GRO (8015M)												
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)												
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V												
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS												
Phone	(575) 748-6733	Phone	(575) 748-6733	G	Cyanide (9014)												
Fax	(575) 748-5421	Fax	(575) 748-5421	H	Nitrate/Nitrite as N (preserved)												
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
				J	Dis. Metals (6020/7470) Hg, Ni, V												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw-77-0414	04/01/14	1135	H2O	2,3,8	6			X	X		X		X			
2	mw-77-0414-D	04/01/14	1135	H2O	2,8	1									X		
3	mw-78-0414	04/01/14	1220	H2O	2,3,8	6			X	X		X		X			
4	mw-78-0414-D	04/01/14	1220	H2O	2,8	1									X		
5	mw-76-0414	04/01/14	1305	H2O	2,3,8	6			X	X		X		X			
6	mw-76-0414-D	04/01/14	1305	H2O	2,8	1									X		
7	mw-83-0414	04/01/14	1340	H2O	2,3,8	6			X	X		X		X			
8	mw-83-0414-D	04/01/14	1340	H2O	2,8	1									X		
9																	
10																	
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:									
Son Jerry		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other													
Relinquished by:		Date:	Time:	Received by:		Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis											
Son Jerry		04/02/14	1500	Received by (Laboratory):													
Relinquished by:		Date:	Time:	Received by (Laboratory):													
Son Jerry		4/3/14	915	Received by (Laboratory):													
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		QC Package: (Check One Box Below)											
						☒ Level II Std QC ☐ TRRP CheckList											
						☐ Level III Std QC/Raw Data ☐ TRRP Level IV											
						☐ Level IV SW846/CLP											
						☐ Other / EDD											
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																	

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York, PA
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Environmental

ALS Project Manager: ALS Work Order #: 14040122

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	173653	Project Name	SA- Artesia Refinery-EP SA GW	A	VOC (8260) Select
Work Order		Project Number		B	GRO (8015M)
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS
Phone	(575) 748-6733	Phone	(575) 748-6733	G	Cyanide (9014)
Fax	(575) 746-5421	Fax	(575) 746-5421	H	Nitrate/Nitrite as N (preserved)
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se
				J	Dis. Metals (6020/7470) Hg, Ni, V

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw-84-0414	04/01/14	1415	ltw	2,3,8	6			X	X		X		X			
2	mw-84-0414-D	04/01/14	1415	ltw	2,8	1									X		
3	mw-82-0414	04/01/14	1445	ltw	2,3,8	6			X	X		X		X			
4	mw-82-0414-D	04/01/14	1445	ltw	2,8	1									X		
5	Dup-1-0414	04/01/14		ltw	2,3,8	6			X	X		X		X			
6	Dup-1-0414-D	04/01/14		ltw	2,8	1									X		
7	CB-1-0414	04/01/14	1600	ltw	2,3,4,8	7			X	X	X	X	X	X			
8	CB-1-0414-D	04/01/14	1600	ltw	2,8	1									X	X	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Sara Jerry		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour			
Relinquished by:	Date: 8/02/14	Time: 1500	Received by:	Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis			
Relinquished by:	Date: 4/3/14	Time: 915	Received by:	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			☒ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

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Environmental

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #: 14040122	
Purchase Order	473654 173653	Project Name	SA- Artesia Refinery-EP SA GW	A	VOC (8260) Select		
Work Order		Project Number		B	GRO (8015M)		
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)		
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se		
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V		
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS		
Phone	(575) 748-6733	Phone	(575) 748-6733	G	Cyanide (9014)		
Fax	(575) 746-5421	Fax	(575) 746-5421	H	Nitrate/Nitrite as N (preserved)		
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se		
				J	Dis. Metals (6020/7470) Hg, Ni, V		
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	Hold
1	WW-79-0414	04/02/14	0815	HW	2,3,8	6	
2	WW-79-0414-D	04/02/14	0815	HW	2,8	1	
3	EB-2-0414	04/02/14	0830	HW	2,3,4,8	7	
4	EB-2-0414-D	04/02/14	0830	HW	2,8	1	
5	WW-80-0414	04/02/14	0855	HW	2,3,8	6	
6	WW-80-0414-D	04/02/14	0855	HW	2,8	1	
7	WW-81-0414	04/02/14	0930	HW	2,3,8	6	
8	WW-81-0414-D	04/02/14	0930	HW	2,8	1	
9							
10							
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Son Jerry Sosa, Jerry		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour			
Relinquished by:	Date:	Time:	Received by:	Notes:			
Son Jerry	8/13/14	1500		10 Work Days TAT. CC Pam Krueger/Arcadis			
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
	4/13/14	415				☒ Level II Std QC ☐ TRRP CheckList	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			☐ Level III Std QC/Raw Data ☐ TRRP Level IV	
						☐ Level IV SW846/CLP ☐ Other / EDD	
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO3 7-Other 8-4°C 9-5035							

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York, PA
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Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	473654 (73653)	Project Name	SA- Artesia Refinery-EP SA GW	A	VOC (8260) Select											
Work Order		Project Number		B	GRO (8015M)											
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)											
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se											
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V											
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS											
Phone	(575) 748-6733	Phone	(575) 748-6733	G	Cyanide (9014)											
Fax	(575) 746-5421	Fax	(575) 746-5421	H	Nitrate/Nitrite as N (preserved)											
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se											
				J	Dis. Metals (6020/7470) Hg, Ni, V											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw-2A-0414	04/02/14	1005	ltw	2,3,8	6			X	X		X		X			
2	mw-2A-0414-D	04/02/14	1005	ltw	2,8	1									X		
3	mw-122-0414	04/02/14	1040	ltw	2,3,8	6			X	X		X		X			
4	mw-122-0414-D	04/02/14	1040	ltw	2,8	1									X		
5	mw-121-0414	04/02/14	1115	ltw	2,3,8	6			X	X		X		X			
6	mw-121-0414-D	04/02/14	1115	ltw	2,8	1									X		
7	mw-120-0414	04/02/14	1145	ltw	2,3,8	6			X	X		X		X			
8	mw-120-0414-D	04/02/14	1145	ltw	2,8	1									X		
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Son Jarry Sosa, Jarry		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour			
Relinquished by: Son Jarry		Date: 04/02/14	Time: 1500	Received by: [Signature]		Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis	
Relinquished by: [Signature]		Date: 4/3/14	Time: 915	Received by: [Signature]		QC Package: (Check One Box Below)	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other / EDD	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₃ 7-Other 8-4°C 9-5035							

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York, PA
+1 717 505 5280

Customer Information		Project Information		Parameter/Method Request for Analysis														
Purchase Order	173654 173653	Project Name	SA- Artesia Refinery-EP SA GW	A	VOC (8260) Select													
Work Order		Project Number		B	GRO (8015M)													
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)													
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se													
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V													
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS													
Phone	(575) 748-6733	Phone	(575) 748-6733	G	Cyanide (9014)													
Fax	(575) 748-5421	Fax	(575) 748-5421	H	Nitrate/Nitrite as N (preserved)													
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se													
				J	Dis. Metals (6020/7470) Hg, Ni, V													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	mw-72-0414	04/01/14	0815	HW	1,8	6	X	X										
2	mw-73-0414	04/01/14	0905	HW	1,8	6	X	X										
3	mw-74-0414	04/01/14	0950	HW	1,8	6	X	X										
4	mw-75-0414	04/01/14	1040	HW	1,8	6	X	X										
5	mw-77-0414	04/01/14	1135	HW	1,8	6	X	X										
6	mw-78-0414	04/01/14	1220	HW	1,8	6	X	X										
7	mw-76-0414	04/01/14	1305	HW	1,8	6	X	X										
8	mw-83-0414	04/01/14	1340	HW	1,8	6	X	X										
9	mw-84-0414	04/01/14	1415	HW	1,8	6	X	X										
10	mw-82-0414	04/01/14	1445	HW	1,8	6	X	X										
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:										
Sosa, Jerry		Fed X		☒ Std. 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour														
Relinquished by:		Date:	Time:	Received by:		Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis												
Sosa, Jerry		04/02/14	1500	[Signature]														
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID: Cooler Temp. QC Package: (Check One Box Below)												
Sosa, Jerry		4/13/14	915	[Signature]		☒ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SWB45/CLP ☐ Other / EDD												
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):														
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																		

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Chain of Custody Form

Page 7 of 7

COC ID: 93428

Houston, TX
+1 281 530 5656
Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903
Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Environmental

Customer Information		Project Information		Parameter/Method Request for Analysis															
Purchase Order	<u>473654 173653</u>	Project Name	SA- Artesia Refinery-EP SA GW	A VOC (8260) Select															
Work Order		Project Number		B GRO (8015M)															
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C DRO (8015M)															
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
Address	PO Box 159	Address	PO Box 159	E Total Metals (6020/7470) Hg, Ni, V															
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F Anions (300) Cl, F, SO ₄ , Cations (Ca, Mg, K, Na) TDS															
Phone	(575) 748-6733	Phone	(575) 748-6733	G Cyanide (9014)															
Fax	(575) 746-5421	Fax	(575) 746-5421	H Nitrate/Nitrite as N (preserved)															
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
				J Dis. Metals (6020/7470) Hg, Ni, V															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	www-79-0414	04/02/14	0815	ltw	1,8	6	X	X											
2	EB-2-0414	04/02/14	0830	ltw	1,8	6	X	X											
3	www-80-0414	04/02/14	0855	ltw	1,8	6	X	X											
4	www-81-0414	04/02/14	0930	ltw	1,8	6	X	X											
5	www-2A-0414	04/02/14	1005	ltw	1,8	6	X	X											
6	www-122-0414	04/02/14	1040	ltw	1,8	6	X	X											
7	www-121-0414	04/02/14	1115	ltw	1,8	6	X	X											
8	www-120-0414	04/02/14	1145	ltw	1,8	6	X	X											
9	Trip Blank 032514-34	04/02/14	1500	ltw	1,8	2	X												
10																			
Samples Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)										Results Due Date:					
<u>Dore Jerry Sonfurn</u>		<u>Fed X</u>		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour															
Relinquished by:		Date:	Time:	Received by:		Notes:													
<u>Sonfurn</u>		<u>04/02/14</u>	<u>1500</u>	<u>[Signature]</u>		<u>10 Work Days TAT. CC Pam Krueger/Arcadis</u>													
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID: Cooler Temp. QC Package: (Check One Box Below)													
<u>[Signature]</u>		<u>4/3/14</u>	<u>915</u>	<u>[Signature]</u>		☒ Level II Std QC ☐ TRRP CheckList													
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		☐ Level III Std QC/Raw Data ☐ TRRP Level IV													
						☐ Level IV SW846/CLP													
						☐ Other / EDD													
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																			

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Chain of Custody Form

Page 1 of 1

COC ID: 93430

Houston, TX
+1 281 530 5656
Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903
Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information			Project Information			Parameter/Method Request for Analysis													
Purchase Order	473054 173653		Project Name	SA- Artesia Refinery-EP SA GW		A	VOC (8260) Select												
Work Order			Project Number			B	GRO (8015M)												
Company Name	Navajo Refining Company		Bill To Company	Navajo Refining Company		C	DRO (8015M)												
Send Report To	Aaron Strange		Invoice Attn	Carrie Hernandez		D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
Address	PO Box 159		Address	PO Box 159		E	Total Metals (6020/7470) Hg, Ni, V												
City/State/Zip	Artesia, NM 88211		City/State/Zip	Artesia, NM 88211		F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS												
Phone	(575) 748-6733		Phone	(575) 748-6733		G	Cyanide (9014)												
Fax	(575) 746-5421		Fax	(575) 746-5421		H	Nitrate/Nitrite as N (preserved)												
e-Mail Address	robert.combs@navajo-refining.com		e-Mail Address	robert.combs@navajo-refining.com		I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
						J	Dis. Metals (6020/7470) Hg, Ni, V												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	Dug - 1 - 0414	04/01/14		1420	1.8	6	X	X											
2	GS-1-0414	04/01/14	1600	1420	1.8	6	X	X											
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s) Please Print & Sign			Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:										
SSE Jerry Sose			Fed X		☒ Std 10-WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour														
Relinquished by:			Date:	Time:	Received by:		Notes:												
SSE Jerry			04/02/14	1500	SSE Jerry		10 Work Days TAT. CC Pam Krueger/Arcadis												
Relinquished by:			Date:	Time:	Received by:		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)										
SSE Jerry			04/03/14	0915	SSE Jerry				☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other / EDD										
Logged by (Laboratory):			Date:	Time:	Checked by (Laboratory):														
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																			

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DDY SEAL	
Time: <u>1500</u>	Seal Broken By: <u>SGA</u>
Signature: <u>SGA</u>	Date: <u>4-2-10</u>

 ALS Environmental 10450 Standliff Rd., Suite 210 Houston, Texas 77099 Tel: +1 281 530 5856 Fax: +1 281 530 5887	CUSTY
	Date: <u>04/02/10</u>
	Name: <u>SGA</u>
	Company: <u>SGA</u>

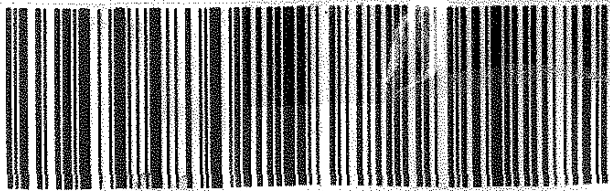
TRK# 5797 1186 9590
 THU - 03 APR 10:30A
 PRIORITY OVERNIGHT
AB SGRA
 77099
 TX-US IAH

TRK# 5797 1186 9616
 THU - 03 APR 10:30A
 PRIORITY OVERNIGHT
AB SGRA
 77099
 TX-US IAH

CUSTODY SEAL	
to: <u>SGA</u>	Time: <u>1500</u>
me: <u>SGA</u>	Signature: <u>SGA</u>
company: <u>SGA</u>	Date: <u>4-2-10</u>

 ALS Environmental 10450 Standliff Rd., Suite 210 Houston, Texas 77099 Tel: +1 281 530 5856 Fax: +1 281 530 5887	L/A
	Na
	Co

TRK# 5797 1186 9627
 THU - 03 APR 10:30A
 PRIORITY OVERNIGHT
AB SGRA
 77099
 TX-US IAH



AB SGRA

77099 IAH TX-US

THU - 03 APR 10:30A
PRIORITY OVERNIGHT

TRK# 5797 1186 9579 0201

77099 IAH TX-US

AB SGRA

THU - 03 APR 10:30A
PRIORITY OVERNIGHT

TRK# 5797 1186 9605 0201

Seal Broken By:	Date: 4/14
	SEAL

Company:	Name:
Time: 04/10/14	Signature: [Signature]
CUSTODY	

AL'S Environmental	
10460 Starlight Rd, Suite 210	
Houston, TX 77099	
Tel: 1-281-380-5656	
Fax: 1-281-380-5657	

77099 B IAH TX-US

AD SUNA



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Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

September 03, 2014

Aaron Strange
Navajo Refining Company
PO Box 1490
Artesia, NM 88211-1490

Work Order: **HS14040311**

Revision: **2**

Laboratory Results for: **Artesia Refinery Semi-Annual**

Dear Aaron,

ALS Environmental received 40 sample(s) on Apr 05, 2014 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

A handwritten signature in cursive script that reads 'Bethany McDaniel'.

Generated By: Bethany.McDaniel
Bethany McDaniel
Project Manager

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Work Order: HS14040311

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040311-01	OCD-6-0414	Water		03-Apr-2014 08:25	05-Apr-2014 00:00	☐
HS14040311-02	OCD-6-0414-D	Water		03-Apr-2014 08:25	05-Apr-2014 00:00	☐
HS14040311-03	OCD-7AR-0414	Water		03-Apr-2014 09:00	05-Apr-2014 00:00	☐
HS14040311-04	OCD-7AR-0414-D	Water		03-Apr-2014 09:00	05-Apr-2014 00:00	☐
HS14040311-05	MW-3-0414	Water		03-Apr-2014 09:45	05-Apr-2014 00:00	☐
HS14040311-06	MW-3-0414-D	Water		03-Apr-2014 09:45	05-Apr-2014 00:00	☐
HS14040311-07	Dup-2-0414	Water		03-Apr-2014 00:00	05-Apr-2014 00:00	☐
HS14040311-08	Dup-2-0414-D	Water		03-Apr-2014 00:00	05-Apr-2014 00:00	☐
HS14040311-09	MW-6A-0414	Water		03-Apr-2014 10:10	05-Apr-2014 00:00	☐
HS14040311-10	MW-6A-0414-D	Water		03-Apr-2014 10:10	05-Apr-2014 00:00	☐
HS14040311-11	MW-15-0414	Water		03-Apr-2014 11:00	05-Apr-2014 00:00	☐
HS14040311-12	MW-15-0414-D	Water		03-Apr-2014 11:00	05-Apr-2014 00:00	☐
HS14040311-13	MW-1R-0414	Water		03-Apr-2014 11:35	05-Apr-2014 00:00	☐
HS14040311-14	MW-1R-0414-D	Water		03-Apr-2014 11:35	05-Apr-2014 00:00	☐
HS14040311-15	OCD-1R-0414	Water		03-Apr-2014 12:50	05-Apr-2014 00:00	☐
HS14040311-16	OCD-1R-0414-D	Water		03-Apr-2014 12:50	05-Apr-2014 00:00	☐
HS14040311-17	OCD-2A-0414	Water		03-Apr-2014 13:25	05-Apr-2014 00:00	☐
HS14040311-18	OCD-2A-0414-D	Water		03-Apr-2014 13:25	05-Apr-2014 00:00	☐
HS14040311-19	OCD-3-0414	Water		03-Apr-2014 14:05	05-Apr-2014 00:00	☐
HS14040311-20	OCD-3-0414-D	Water		03-Apr-2014 14:05	05-Apr-2014 00:00	☐
HS14040311-21	EB-3-0414	Water		03-Apr-2014 16:00	05-Apr-2014 00:00	☐
HS14040311-22	EB-3-0414-D	Water		03-Apr-2014 16:00	05-Apr-2014 00:00	☐
HS14040311-23	MW-25-0414	Water		03-Apr-2014 12:05	05-Apr-2014 00:00	☐
HS14040311-24	MW-25-0414-D	Water		03-Apr-2014 12:05	05-Apr-2014 00:00	☐
HS14040311-25	MW-12-0414	Water		04-Apr-2014 09:40	05-Apr-2014 00:00	☐
HS14040311-26	MW-12-0414-D	Water		04-Apr-2014 09:40	05-Apr-2014 00:00	☐
HS14040311-27	EB-4-0414	Water		04-Apr-2014 10:05	05-Apr-2014 00:00	☐

Revision:2

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Work Order: HS14040311

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040311-28	EB-4-0414-D	Water		04-Apr-2014 10:05	05-Apr-2014 00:00	☐
HS14040311-29	MW-13-0414	Water		04-Apr-2014 10:25	05-Apr-2014 00:00	☐
HS14040311-30	MW-13-0414-D	Water		04-Apr-2014 10:25	05-Apr-2014 00:00	☐
HS14040311-31	OCD-4-0414	Water		04-Apr-2014 11:30	05-Apr-2014 00:00	☐
HS14040311-32	OCD-4-0414-D	Water		04-Apr-2014 11:30	05-Apr-2014 00:00	☐
HS14040311-33	OCD-5-0414	Water		04-Apr-2014 12:00	05-Apr-2014 00:00	☐
HS14040311-34	OCD-5-0414-D	Water		04-Apr-2014 12:00	05-Apr-2014 00:00	☐
HS14040311-35	Dup-3-0414	Water		04-Apr-2014 00:00	05-Apr-2014 00:00	☐
HS14040311-36	Dup-3-0414-D	Water		04-Apr-2014 00:00	05-Apr-2014 00:00	☐
HS14040311-37	MW-11A-0414	Water		04-Apr-2014 12:45	05-Apr-2014 00:00	☐
HS14040311-38	MW-11A-0414-D	Water		04-Apr-2014 12:45	05-Apr-2014 00:00	☐
HS14040311-39	TB-032514-40	Water		04-Apr-2014 14:00	05-Apr-2014 00:00	☐
HS14040311-40	Trip Blank - 032514-33	Water		03-Apr-2014 00:00	05-Apr-2014 00:00	☐

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Work Order: HS14040311

CASE NARRATIVE

This report was revised on September 3, 2014 to report to the MDL per client request

This report has been revised to remove the GRO analyses for samples MW-1R-0414 and MW-25-0414. These samples were analyzed in error by the laboratory.

Samples were analyzed for Total and Dissolved Metals at a dilution due to matrix interference from non-target analytes. The lowest possible dilution was analyzed.

TPH DRO/ORO Method SW8015, sample OCD-7AR-0414, surrogate 2-Fluorobiphenyl recovered above the control limits due to matrix interference.

Cyanide Method SW9014, sample EB-3-414 was analyzed out of hold due to laboratory error. Batch 80589, TPH (DRO) Method SW8015, LCS/LCSD provided as batch quality control.

Batch 80980, Metals Method SW6020, sample OCD-6-0414, MS and or MSD recoveries were outside the control limits for some compounds due to matrix interference. The associated LCS and MS/MSD RPD in the batch were all within the control limits.

Batch 81025, Metals Method SW6020, sample OCD-6-0414-D, MSD recovered slightly above the control limits for Selenium. The associated LCS/MS/MSD recoveries were within the control limits. Batch 81263, Metals Method SW6020, sample HS14040523-01, MS and MSD were performed on an unrelated sample.

Batch R231740, Volatile Organics Method SW8260, sample HS1404020-01, MS and MSD were performed on an unrelated sample.

Batch R231801, Volatile Organics Method SW8260, sample EB-4-041, MS and or MSD recovered outside the control limits for some few compounds. The RPD was high for some few compounds.

Batch R231649, Total Dissolved Solids Method SW2540, sample HS14040122-35, duplicate RPD is for an unrelated sample.

Batch R232582, Anions Method E300, sample HS4040676-08, MS/MSD was performed on an unrelated sample.

Batch R232619, Anions Method E30, sample MW-11A-0414, MS recovered above the control limits for sulfate. In addition, the MS/MSD RPD recovered high.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-6-0414
 Collection Date: 03-Apr-2014 08:25

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 20:22
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 20:22
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	11-Apr-2014 20:22
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
2-Butanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 20:22
2-Hexanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 20:22
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 20:22
Acetone	U		0.0020	0.010	mg/L	1	11-Apr-2014 20:22
Benzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
Bromoform	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
Bromomethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
Carbon disulfide	U		0.00090	0.010	mg/L	1	11-Apr-2014 20:22
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
Chlorobenzene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 20:22
Chloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
Chloroform	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
Chloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
Ethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
m,p-Xylene	U		0.00060	0.010	mg/L	1	11-Apr-2014 20:22
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
Methylene chloride	U		0.0010	0.010	mg/L	1	11-Apr-2014 20:22
Naphthalene	U		0.00070	0.0050	mg/L	1	11-Apr-2014 20:22
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	11-Apr-2014 20:22
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
o-Xylene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
Styrene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
Toluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 20:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-6-0414
 Collection Date: 03-Apr-2014 08:25

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:22
Trichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:22
Vinyl chloride	U		0.00040	0.0020	mg/L	1	11-Apr-2014 20:22
Xylenes, Total	U		0.0015	0.015	mg/L	1	11-Apr-2014 20:22
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	11-Apr-2014 20:22
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	11-Apr-2014 20:22
Surr: Dibromofluoromethane	100			71-125	%REC	1	11-Apr-2014 20:22
Surr: Toluene-d8	93.0			75-125	%REC	1	11-Apr-2014 20:22
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 21-Apr-2014 Analyst: ALR	
Arsenic	0.0160	J	0.00500	0.0250	mg/L	5	23-Apr-2014 07:56
Barium	0.0191	J	0.00450	0.0250	mg/L	5	23-Apr-2014 07:56
Calcium	806		6.70	50.0	mg/L	100	22-Apr-2014 16:08
Chromium	U		0.00500	0.0250	mg/L	5	23-Apr-2014 07:56
Iron	2.56		0.250	1.00	mg/L	5	23-Apr-2014 07:56
Lead	U		0.00350	0.0250	mg/L	5	23-Apr-2014 07:56
Manganese	2.15		0.250	0.500	mg/L	100	22-Apr-2014 16:08
Potassium	13.4		0.250	1.00	mg/L	5	23-Apr-2014 07:56
Selenium	U		0.00500	0.0250	mg/L	5	23-Apr-2014 07:56
Sodium	3,120		5.00	20.0	mg/L	100	22-Apr-2014 16:08
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: KKP	
Gasoline Range Organics	0.297		0.0100	0.0500	mg/L	1	10-Apr-2014 14:17
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	10-Apr-2014 14:17
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	11,900		5.00	10.0	mg/L	1	09-Apr-2014 09:55
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	4,500		20.0	50.0	mg/L	100	24-Apr-2014 20:24
Fluoride	2.34		0.100	0.200	mg/L	2	21-Apr-2014 00:11
Sulfate	2,770		20.0	50.0	mg/L	100	24-Apr-2014 20:24
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.82		0.021	0.051	mg/L	1	12-Apr-2014 23:52
Surr: 2-Fluorobiphenyl	104			60-135	%REC	1	12-Apr-2014 23:52
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	0.232	J	0.150	1.00	mg/L	5	21-Apr-2014 00:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: OCD-6-0414-D
Collection Date: 03-Apr-2014 08:25

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	0.0161	J	0.00500	0.0250	mg/L	5	25-Apr-2014 01:20
Barium	0.0194	J	0.00450	0.0250	mg/L	5	25-Apr-2014 01:20
Chromium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 01:20
Iron	1.75		0.390	1.00	mg/L	5	25-Apr-2014 01:20
Lead	U		0.00350	0.0250	mg/L	5	25-Apr-2014 01:20
Manganese	2.20		0.0125	0.0250	mg/L	5	25-Apr-2014 01:20
Selenium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 01:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-7AR-0414
 Collection Date: 03-Apr-2014 09:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 20:47
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
1,2,4-Trimethylbenzene	0.0017	J	0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 20:47
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	11-Apr-2014 20:47
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
2-Butanone	0.0034	J	0.0010	0.010	mg/L	1	11-Apr-2014 20:47
2-Hexanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 20:47
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 20:47
Acetone	0.019		0.0020	0.010	mg/L	1	11-Apr-2014 20:47
Benzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
Bromoform	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
Bromomethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
Carbon disulfide	U		0.00090	0.010	mg/L	1	11-Apr-2014 20:47
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
Chlorobenzene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 20:47
Chloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
Chloroform	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
Chloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
Ethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
m,p-Xylene	U		0.00060	0.010	mg/L	1	11-Apr-2014 20:47
Methyl tert-butyl ether	0.0015	J	0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
Methylene chloride	U		0.0010	0.010	mg/L	1	11-Apr-2014 20:47
Naphthalene	U		0.00070	0.0050	mg/L	1	11-Apr-2014 20:47
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	11-Apr-2014 20:47
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
o-Xylene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
Styrene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
Toluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 20:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-7AR-0414
 Collection Date: 03-Apr-2014 09:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 20:47
Trichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 20:47
Vinyl chloride	U		0.00040	0.0020	mg/L	1	11-Apr-2014 20:47
Xylenes, Total	U		0.0015	0.015	mg/L	1	11-Apr-2014 20:47
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	11-Apr-2014 20:47
Surr: 4-Bromofluorobenzene	105			72-125	%REC	1	11-Apr-2014 20:47
Surr: Dibromofluoromethane	101			71-125	%REC	1	11-Apr-2014 20:47
Surr: Toluene-d8	96.1			75-125	%REC	1	11-Apr-2014 20:47
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 21-Apr-2014 Analyst: ALR	
Arsenic	0.158		0.00200	0.0100	mg/L	2	24-Apr-2014 01:45
Barium	0.0147		0.00180	0.0100	mg/L	2	24-Apr-2014 01:45
Calcium	646		6.70	50.0	mg/L	100	22-Apr-2014 16:27
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 01:45
Iron	7.59		0.100	0.400	mg/L	2	24-Apr-2014 01:45
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 01:45
Manganese	2.87		0.250	0.500	mg/L	100	22-Apr-2014 16:27
Potassium	6.92		0.100	0.400	mg/L	2	24-Apr-2014 01:45
Selenium	0.00425	J	0.00200	0.0100	mg/L	2	24-Apr-2014 01:45
Sodium	2,250		5.00	20.0	mg/L	100	22-Apr-2014 16:27
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: KKP	
Gasoline Range Organics	0.889		0.0100	0.0500	mg/L	1	10-Apr-2014 15:11
Surr: 4-Bromofluorobenzene	94.4			70-130	%REC	1	10-Apr-2014 15:11
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	8,060		5.00	10.0	mg/L	1	09-Apr-2014 09:55
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	2,290		20.0	50.0	mg/L	100	24-Apr-2014 20:39
Fluoride	2.74		0.100	0.200	mg/L	2	21-Apr-2014 00:26
Sulfate	3,450		20.0	50.0	mg/L	100	24-Apr-2014 20:39
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	4.0		0.021	0.051	mg/L	1	13-Apr-2014 00:18
Surr: 2-Fluorobiphenyl	145	S		60-135	%REC	1	13-Apr-2014 00:18
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 00:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: OCD-7AR-0414-D
Collection Date: 03-Apr-2014 09:00

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	0.130		0.00200	0.0100	mg/L	2	24-Apr-2014 06:49
Barium	0.0119		0.00180	0.0100	mg/L	2	24-Apr-2014 06:49
Chromium	0.00204	J	0.00200	0.0100	mg/L	2	24-Apr-2014 06:49
Iron	1.73		0.156	0.400	mg/L	2	24-Apr-2014 06:49
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 06:49
Manganese	2.77		0.00500	0.0100	mg/L	2	24-Apr-2014 06:49
Selenium	0.00234	J	0.00200	0.0100	mg/L	2	24-Apr-2014 06:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-3-0414
 Collection Date: 03-Apr-2014 09:45

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 21:12
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 21:12
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	11-Apr-2014 21:12
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
2-Butanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 21:12
2-Hexanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 21:12
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 21:12
Acetone	U		0.0020	0.010	mg/L	1	11-Apr-2014 21:12
Benzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
Bromoform	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
Bromomethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
Carbon disulfide	U		0.00090	0.010	mg/L	1	11-Apr-2014 21:12
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
Chlorobenzene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 21:12
Chloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
Chloroform	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
Chloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
Ethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
m,p-Xylene	U		0.00060	0.010	mg/L	1	11-Apr-2014 21:12
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
Methylene chloride	U		0.0010	0.010	mg/L	1	11-Apr-2014 21:12
Naphthalene	U		0.00070	0.0050	mg/L	1	11-Apr-2014 21:12
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	11-Apr-2014 21:12
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
o-Xylene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
Styrene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
Toluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 21:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-3-0414
 Collection Date: 03-Apr-2014 09:45

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:12
Trichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:12
Vinyl chloride	U		0.00040	0.0020	mg/L	1	11-Apr-2014 21:12
Xylenes, Total	U		0.0015	0.015	mg/L	1	11-Apr-2014 21:12
Surr: 1,2-Dichloroethane-d4	99.2			70-125	%REC	1	11-Apr-2014 21:12
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	11-Apr-2014 21:12
Surr: Dibromofluoromethane	102			71-125	%REC	1	11-Apr-2014 21:12
Surr: Toluene-d8	100			75-125	%REC	1	11-Apr-2014 21:12
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 21-Apr-2014		Analyst: ALR	
Arsenic	0.0298		0.00200	0.0100	mg/L	2	24-Apr-2014 01:50
Barium	0.0185		0.00180	0.0100	mg/L	2	24-Apr-2014 01:50
Calcium	827		6.70	50.0	mg/L	100	22-Apr-2014 16:43
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 01:50
Iron	U		0.100	0.400	mg/L	2	24-Apr-2014 01:50
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 01:50
Manganese	0.254		0.00500	0.0100	mg/L	2	24-Apr-2014 01:50
Potassium	6.57		0.100	0.400	mg/L	2	24-Apr-2014 01:50
Selenium	0.0458		0.00200	0.0100	mg/L	2	24-Apr-2014 01:50
Sodium	1,300		5.00	20.0	mg/L	100	22-Apr-2014 16:43
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: KKP			
Gasoline Range Organics	0.0493	J	0.0100	0.0500	mg/L	1	10-Apr-2014 15:30
Surr: 4-Bromofluorobenzene	94.1			70-130	%REC	1	10-Apr-2014 15:30
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	7,400		5.00	10.0	mg/L	1	09-Apr-2014 09:55
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	2,300		20.0	50.0	mg/L	100	24-Apr-2014 20:53
Fluoride	1.39		0.100	0.200	mg/L	2	21-Apr-2014 00:40
Sulfate	1,930		20.0	50.0	mg/L	100	24-Apr-2014 20:53
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 10-Apr-2014		Analyst: RPM	
TPH (Diesel Range)	1.0		0.021	0.051	mg/L	1	13-Apr-2014 00:44
Surr: 2-Fluorobiphenyl	112			60-135	%REC	1	13-Apr-2014 00:44
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	9.07		0.150	1.00	mg/L	5	21-Apr-2014 01:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: MW-3-0414-D
Collection Date: 03-Apr-2014 09:45

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	0.0285		0.00200	0.0100	mg/L	2	24-Apr-2014 06:54
Barium	0.0178		0.00180	0.0100	mg/L	2	24-Apr-2014 06:54
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 06:54
Iron	U		0.156	0.400	mg/L	2	24-Apr-2014 06:54
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 06:54
Manganese	0.325		0.00500	0.0100	mg/L	2	24-Apr-2014 06:54
Selenium	0.0429		0.00200	0.0100	mg/L	2	24-Apr-2014 06:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: Dup-2-0414
 Collection Date: 03-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 21:37
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
1,2,4-Trimethylbenzene	0.0016	J	0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 21:37
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	11-Apr-2014 21:37
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
2-Butanone	0.0026	J	0.0010	0.010	mg/L	1	11-Apr-2014 21:37
2-Hexanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 21:37
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 21:37
Acetone	0.015		0.0020	0.010	mg/L	1	11-Apr-2014 21:37
Benzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
Bromoform	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
Bromomethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
Carbon disulfide	U		0.00090	0.010	mg/L	1	11-Apr-2014 21:37
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
Chlorobenzene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 21:37
Chloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
Chloroform	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
Chloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
Ethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
m,p-Xylene	U		0.00060	0.010	mg/L	1	11-Apr-2014 21:37
Methyl tert-butyl ether	0.0018	J	0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
Methylene chloride	U		0.0010	0.010	mg/L	1	11-Apr-2014 21:37
Naphthalene	U		0.00070	0.0050	mg/L	1	11-Apr-2014 21:37
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	11-Apr-2014 21:37
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
o-Xylene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
Styrene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
Toluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 21:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: Dup-2-0414
 Collection Date: 03-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 21:37
Trichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 21:37
Vinyl chloride	U		0.00040	0.0020	mg/L	1	11-Apr-2014 21:37
Xylenes, Total	U		0.0015	0.015	mg/L	1	11-Apr-2014 21:37
Surr: 1,2-Dichloroethane-d4	101			70-125	%REC	1	11-Apr-2014 21:37
Surr: 4-Bromofluorobenzene	104			72-125	%REC	1	11-Apr-2014 21:37
Surr: Dibromofluoromethane	99.0			71-125	%REC	1	11-Apr-2014 21:37
Surr: Toluene-d8	99.1			75-125	%REC	1	11-Apr-2014 21:37
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 21-Apr-2014		Analyst: ALR	
Arsenic	0.165		0.00200	0.0100	mg/L	2	24-Apr-2014 02:00
Barium	0.0152		0.00180	0.0100	mg/L	2	24-Apr-2014 02:00
Calcium	651		6.70	50.0	mg/L	100	22-Apr-2014 16:47
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 02:00
Iron	8.08		0.100	0.400	mg/L	2	24-Apr-2014 02:00
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 02:00
Manganese	2.92		0.250	0.500	mg/L	100	22-Apr-2014 16:47
Potassium	7.22		0.100	0.400	mg/L	2	24-Apr-2014 02:00
Selenium	0.00356	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:00
Sodium	2,220		5.00	20.0	mg/L	100	22-Apr-2014 16:47
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: KKP			
Gasoline Range Organics	0.883		0.0100	0.0500	mg/L	1	10-Apr-2014 15:48
Surr: 4-Bromofluorobenzene	98.5			70-130	%REC	1	10-Apr-2014 15:48
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	8,700		5.00	10.0	mg/L	1	09-Apr-2014 09:55
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	2,890		20.0	50.0	mg/L	100	24-Apr-2014 21:08
Fluoride	2.82		0.100	0.200	mg/L	2	21-Apr-2014 00:55
Sulfate	4,330		20.0	50.0	mg/L	100	24-Apr-2014 21:08
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 10-Apr-2014		Analyst: RPM	
TPH (Diesel Range)	4.1		0.021	0.051	mg/L	1	13-Apr-2014 01:10
Surr: 2-Fluorobiphenyl	126			60-135	%REC	1	13-Apr-2014 01:10
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 01:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: Dup-2-0414-D
Collection Date: 03-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	0.131		0.00200	0.0100	mg/L	2	24-Apr-2014 07:04
Barium	0.0125		0.00180	0.0100	mg/L	2	24-Apr-2014 07:04
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 07:04
Iron	1.57		0.156	0.400	mg/L	2	24-Apr-2014 07:04
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 07:04
Manganese	2.62		0.00500	0.0100	mg/L	2	24-Apr-2014 07:04
Selenium	0.00271	J	0.00200	0.0100	mg/L	2	24-Apr-2014 07:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-6A-0414
 Collection Date: 03-Apr-2014 10:10

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:03
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:03
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	11-Apr-2014 22:03
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
2-Butanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:03
2-Hexanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:03
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:03
Acetone	0.0068	J	0.0020	0.010	mg/L	1	11-Apr-2014 22:03
Benzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
Bromoform	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
Bromomethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
Carbon disulfide	U		0.00090	0.010	mg/L	1	11-Apr-2014 22:03
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
Chlorobenzene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:03
Chloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
Chloroform	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
Chloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
Ethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
m,p-Xylene	U		0.00060	0.010	mg/L	1	11-Apr-2014 22:03
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
Methylene chloride	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:03
Naphthalene	U		0.00070	0.0050	mg/L	1	11-Apr-2014 22:03
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	11-Apr-2014 22:03
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
o-Xylene	0.0016	J	0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
Styrene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
Toluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-6A-0414
 Collection Date: 03-Apr-2014 10:10

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:03
Trichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:03
Vinyl chloride	U		0.00040	0.0020	mg/L	1	11-Apr-2014 22:03
Xylenes, Total	0.0016	J	0.0015	0.015	mg/L	1	11-Apr-2014 22:03
Surr: 1,2-Dichloroethane-d4	100			70-125	%REC	1	11-Apr-2014 22:03
Surr: 4-Bromofluorobenzene	104			72-125	%REC	1	11-Apr-2014 22:03
Surr: Dibromofluoromethane	101			71-125	%REC	1	11-Apr-2014 22:03
Surr: Toluene-d8	105			75-125	%REC	1	11-Apr-2014 22:03
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 21-Apr-2014 Analyst: ALR			
Arsenic	0.0113		0.00200	0.0100	mg/L	2	24-Apr-2014 02:05
Barium	0.0287		0.00180	0.0100	mg/L	2	24-Apr-2014 02:05
Calcium	762		6.70	50.0	mg/L	100	22-Apr-2014 16:53
Chromium	0.00234	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:05
Iron	U		0.100	0.400	mg/L	2	24-Apr-2014 02:05
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 02:05
Manganese	1.37		0.00500	0.0100	mg/L	2	24-Apr-2014 02:05
Potassium	2.44		0.100	0.400	mg/L	2	24-Apr-2014 02:05
Selenium	0.0192		0.00200	0.0100	mg/L	2	24-Apr-2014 02:05
Sodium	998		5.00	20.0	mg/L	100	22-Apr-2014 16:53
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: KKP			
Gasoline Range Organics	0.238		0.0100	0.0500	mg/L	1	10-Apr-2014 16:24
Surr: 4-Bromofluorobenzene	95.7			70-130	%REC	1	10-Apr-2014 16:24
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	5,600		5.00	10.0	mg/L	1	09-Apr-2014 09:55
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	1,620		20.0	50.0	mg/L	100	24-Apr-2014 21:23
Fluoride	1.31		0.100	0.200	mg/L	2	21-Apr-2014 01:09
Sulfate	1,980		20.0	50.0	mg/L	100	24-Apr-2014 21:23
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 10-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	1.5		0.020	0.051	mg/L	1	13-Apr-2014 01:36
Surr: 2-Fluorobiphenyl	65.6			60-135	%REC	1	13-Apr-2014 01:36
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	0.245	J	0.150	1.00	mg/L	5	21-Apr-2014 01:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: MW-6A-0414-D
Collection Date: 03-Apr-2014 10:10

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	0.0102		0.00200	0.0100	mg/L	2	24-Apr-2014 07:09
Barium	0.0252		0.00180	0.0100	mg/L	2	24-Apr-2014 07:09
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 07:09
Iron	U		0.156	0.400	mg/L	2	24-Apr-2014 07:09
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 07:09
Manganese	1.20		0.00500	0.0100	mg/L	2	24-Apr-2014 07:09
Selenium	0.0157		0.00200	0.0100	mg/L	2	24-Apr-2014 07:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-15-0414
 Collection Date: 03-Apr-2014 11:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:28
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:28
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	11-Apr-2014 22:28
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
2-Butanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:28
2-Hexanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:28
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:28
Acetone	U		0.0020	0.010	mg/L	1	11-Apr-2014 22:28
Benzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
Bromoform	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
Bromomethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
Carbon disulfide	U		0.00090	0.010	mg/L	1	11-Apr-2014 22:28
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
Chlorobenzene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:28
Chloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
Chloroform	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
Chloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
Ethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
m,p-Xylene	U		0.00060	0.010	mg/L	1	11-Apr-2014 22:28
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
Methylene chloride	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:28
Naphthalene	U		0.00070	0.0050	mg/L	1	11-Apr-2014 22:28
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	11-Apr-2014 22:28
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
o-Xylene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
Styrene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
Toluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-15-0414
 Collection Date: 03-Apr-2014 11:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:28
Trichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:28
Vinyl chloride	U		0.00040	0.0020	mg/L	1	11-Apr-2014 22:28
Xylenes, Total	U		0.0015	0.015	mg/L	1	11-Apr-2014 22:28
Surr: 1,2-Dichloroethane-d4	98.6			70-125	%REC	1	11-Apr-2014 22:28
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	11-Apr-2014 22:28
Surr: Dibromofluoromethane	99.2			71-125	%REC	1	11-Apr-2014 22:28
Surr: Toluene-d8	101			75-125	%REC	1	11-Apr-2014 22:28
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 21-Apr-2014 Analyst: ALR	
Arsenic	0.0605		0.00200	0.0100	mg/L	2	24-Apr-2014 02:15
Barium	0.0217		0.00180	0.0100	mg/L	2	24-Apr-2014 02:15
Calcium	849		6.70	50.0	mg/L	100	22-Apr-2014 16:58
Chromium	0.00381	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:15
Iron	U		0.100	0.400	mg/L	2	24-Apr-2014 02:15
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 02:15
Manganese	0.363		0.00500	0.0100	mg/L	2	24-Apr-2014 02:15
Potassium	5.68		0.100	0.400	mg/L	2	24-Apr-2014 02:15
Selenium	0.00535	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:15
Sodium	1,420		5.00	20.0	mg/L	100	22-Apr-2014 16:58
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: KKP	
Gasoline Range Organics	0.149		0.0100	0.0500	mg/L	1	10-Apr-2014 16:42
Surr: 4-Bromofluorobenzene	92.9			70-130	%REC	1	10-Apr-2014 16:42
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	19,900		5.00	10.0	mg/L	1	10-Apr-2014 09:55
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	2,960		20.0	50.0	mg/L	100	24-Apr-2014 21:37
Fluoride	2.33		0.100	0.200	mg/L	2	21-Apr-2014 01:24
Sulfate	1,770		20.0	50.0	mg/L	100	24-Apr-2014 21:37
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.57		0.021	0.051	mg/L	1	13-Apr-2014 02:03
Surr: 2-Fluorobiphenyl	109			60-135	%REC	1	13-Apr-2014 02:03
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	40.2		0.150	1.00	mg/L	5	21-Apr-2014 02:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: MW-15-0414-D
Collection Date: 03-Apr-2014 11:00

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	0.0589		0.00200	0.0100	mg/L	2	24-Apr-2014 07:24
Barium	0.0186		0.00180	0.0100	mg/L	2	24-Apr-2014 07:24
Chromium	0.0144		0.00200	0.0100	mg/L	2	24-Apr-2014 07:24
Iron	U		0.156	0.400	mg/L	2	24-Apr-2014 07:24
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 07:24
Manganese	0.332		0.00500	0.0100	mg/L	2	24-Apr-2014 07:24
Selenium	0.00547	J	0.00200	0.0100	mg/L	2	24-Apr-2014 07:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-1R-0414
 Collection Date: 03-Apr-2014 11:35

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:53
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:53
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	11-Apr-2014 22:53
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
2-Butanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:53
2-Hexanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:53
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:53
Acetone	U		0.0020	0.010	mg/L	1	11-Apr-2014 22:53
Benzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
Bromoform	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
Bromomethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
Carbon disulfide	U		0.00090	0.010	mg/L	1	11-Apr-2014 22:53
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
Chlorobenzene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:53
Chloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
Chloroform	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
Chloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
Ethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
m,p-Xylene	U		0.00060	0.010	mg/L	1	11-Apr-2014 22:53
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
Methylene chloride	U		0.0010	0.010	mg/L	1	11-Apr-2014 22:53
Naphthalene	U		0.00070	0.0050	mg/L	1	11-Apr-2014 22:53
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	11-Apr-2014 22:53
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
o-Xylene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
Styrene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
Toluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 22:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-1R-0414
 Collection Date: 03-Apr-2014 11:35

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 22:53
Trichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 22:53
Vinyl chloride	U		0.00040	0.0020	mg/L	1	11-Apr-2014 22:53
Xylenes, Total	U		0.0015	0.015	mg/L	1	11-Apr-2014 22:53
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	11-Apr-2014 22:53
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	11-Apr-2014 22:53
Surr: Dibromofluoromethane	102			71-125	%REC	1	11-Apr-2014 22:53
Surr: Toluene-d8	97.3			75-125	%REC	1	11-Apr-2014 22:53
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 21-Apr-2014 Analyst: ALR	
Arsenic	0.00335	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:30
Barium	0.0214		0.00180	0.0100	mg/L	2	24-Apr-2014 23:55
Calcium	540		6.70	50.0	mg/L	100	22-Apr-2014 17:03
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 02:30
Iron	2.39		0.100	0.400	mg/L	2	24-Apr-2014 02:30
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 02:30
Manganese	1.38		0.00500	0.0100	mg/L	2	24-Apr-2014 02:30
Potassium	4.27		0.100	0.400	mg/L	2	24-Apr-2014 23:55
Selenium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 02:30
Sodium	1,010		5.00	20.0	mg/L	100	22-Apr-2014 17:03
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,740		5.00	10.0	mg/L	1	10-Apr-2014 09:55
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	1,560		20.0	50.0	mg/L	100	24-Apr-2014 21:52
Fluoride	0.567		0.100	0.200	mg/L	2	21-Apr-2014 01:38
Sulfate	1,900		20.0	50.0	mg/L	100	24-Apr-2014 21:52
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	13-Apr-2014 02:29
Surr: 2-Fluorobiphenyl	111			60-135	%REC	1	13-Apr-2014 02:29
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 02:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: MW-1R-0414-D
Collection Date: 03-Apr-2014 11:35

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00200	0.0100	mg/L	2	24-Apr-2014 07:29
Barium	0.0194		0.00180	0.0100	mg/L	2	24-Apr-2014 07:29
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 07:29
Iron	1.31		0.156	0.400	mg/L	2	24-Apr-2014 07:29
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 07:29
Manganese	1.22		0.00500	0.0100	mg/L	2	24-Apr-2014 07:29
Selenium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 07:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-1R-0414
 Collection Date: 03-Apr-2014 12:50

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-15
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 23:18
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 23:18
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	11-Apr-2014 23:18
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
2-Butanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 23:18
2-Hexanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 23:18
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 23:18
Acetone	U		0.0020	0.010	mg/L	1	11-Apr-2014 23:18
Benzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
Bromoform	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
Bromomethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
Carbon disulfide	U		0.00090	0.010	mg/L	1	11-Apr-2014 23:18
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
Chlorobenzene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 23:18
Chloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
Chloroform	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
Chloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
Ethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
m,p-Xylene	U		0.00060	0.010	mg/L	1	11-Apr-2014 23:18
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
Methylene chloride	U		0.0010	0.010	mg/L	1	11-Apr-2014 23:18
Naphthalene	U		0.00070	0.0050	mg/L	1	11-Apr-2014 23:18
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	11-Apr-2014 23:18
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
o-Xylene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
Styrene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
Toluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 23:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-1R-0414
 Collection Date: 03-Apr-2014 12:50

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-15
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:18
Trichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:18
Vinyl chloride	U		0.00040	0.0020	mg/L	1	11-Apr-2014 23:18
Xylenes, Total	U		0.0015	0.015	mg/L	1	11-Apr-2014 23:18
Surr: 1,2-Dichloroethane-d4	101			70-125	%REC	1	11-Apr-2014 23:18
Surr: 4-Bromofluorobenzene	108			72-125	%REC	1	11-Apr-2014 23:18
Surr: Dibromofluoromethane	103			71-125	%REC	1	11-Apr-2014 23:18
Surr: Toluene-d8	104			75-125	%REC	1	11-Apr-2014 23:18
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 21-Apr-2014 Analyst: ALR	
Arsenic	0.00833	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:35
Barium	0.0144	J	0.00450	0.0250	mg/L	5	26-Apr-2014 06:54
Calcium	656		6.70	50.0	mg/L	100	22-Apr-2014 17:08
Chromium	0.00407	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:35
Iron	0.650		0.100	0.400	mg/L	2	24-Apr-2014 02:35
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 02:35
Manganese	1.52		0.00500	0.0100	mg/L	2	24-Apr-2014 02:35
Potassium	4.52		0.100	0.400	mg/L	2	25-Apr-2014 00:00
Selenium	0.00892	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:35
Sodium	3,000		5.00	20.0	mg/L	100	22-Apr-2014 17:08
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: KKP	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	10-Apr-2014 17:18
Surr: 4-Bromofluorobenzene	95.4			70-130	%REC	1	10-Apr-2014 17:18
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	11,400		5.00	10.0	mg/L	1	10-Apr-2014 09:55
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	3,940		20.0	50.0	mg/L	100	24-Apr-2014 22:06
Fluoride	3.40		0.100	0.200	mg/L	2	21-Apr-2014 01:53
Sulfate	3,410		20.0	50.0	mg/L	100	24-Apr-2014 22:06
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.051	mg/L	1	13-Apr-2014 03:47
Surr: 2-Fluorobiphenyl	92.1			60-135	%REC	1	13-Apr-2014 03:47
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	0.808	J	0.150	1.00	mg/L	5	21-Apr-2014 03:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: OCD-1R-0414-D
Collection Date: 03-Apr-2014 12:50

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	0.00705	J	0.00200	0.0100	mg/L	2	24-Apr-2014 07:39
Barium	0.0156		0.00180	0.0100	mg/L	2	24-Apr-2014 07:39
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 07:39
Iron	U		0.156	0.400	mg/L	2	24-Apr-2014 07:39
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 07:39
Manganese	1.31		0.00500	0.0100	mg/L	2	24-Apr-2014 07:39
Selenium	0.00716	J	0.00200	0.0100	mg/L	2	24-Apr-2014 07:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-2A-0414
 Collection Date: 03-Apr-2014 13:25

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-17
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 23:43
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	11-Apr-2014 23:43
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	11-Apr-2014 23:43
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
2-Butanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 23:43
2-Hexanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 23:43
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	11-Apr-2014 23:43
Acetone	U		0.0020	0.010	mg/L	1	11-Apr-2014 23:43
Benzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
Bromoform	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
Bromomethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
Carbon disulfide	U		0.00090	0.010	mg/L	1	11-Apr-2014 23:43
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
Chlorobenzene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 23:43
Chloroethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
Chloroform	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
Chloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
Ethylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
m,p-Xylene	U		0.00060	0.010	mg/L	1	11-Apr-2014 23:43
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
Methylene chloride	U		0.0010	0.010	mg/L	1	11-Apr-2014 23:43
Naphthalene	U		0.00070	0.0050	mg/L	1	11-Apr-2014 23:43
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	11-Apr-2014 23:43
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
o-Xylene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
Styrene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
Toluene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	11-Apr-2014 23:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-2A-0414
 Collection Date: 03-Apr-2014 13:25

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-17
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	11-Apr-2014 23:43
Trichloroethene	U		0.00050	0.0050	mg/L	1	11-Apr-2014 23:43
Vinyl chloride	U		0.00040	0.0020	mg/L	1	11-Apr-2014 23:43
Xylenes, Total	U		0.0015	0.015	mg/L	1	11-Apr-2014 23:43
Surr: 1,2-Dichloroethane-d4	107			70-125	%REC	1	11-Apr-2014 23:43
Surr: 4-Bromofluorobenzene	98.6			72-125	%REC	1	11-Apr-2014 23:43
Surr: Dibromofluoromethane	103			71-125	%REC	1	11-Apr-2014 23:43
Surr: Toluene-d8	101			75-125	%REC	1	11-Apr-2014 23:43
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 21-Apr-2014 Analyst: ALR	
Arsenic	0.00332	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:45
Barium	0.0185		0.00180	0.0100	mg/L	2	26-Apr-2014 07:04
Calcium	662		6.70	50.0	mg/L	100	22-Apr-2014 17:13
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 02:45
Iron	0.425		0.100	0.400	mg/L	2	24-Apr-2014 02:45
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 02:45
Manganese	0.563		0.00500	0.0100	mg/L	2	24-Apr-2014 02:45
Potassium	4.78		0.100	0.400	mg/L	2	26-Apr-2014 07:04
Selenium	0.00245	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:45
Sodium	1,460		5.00	20.0	mg/L	100	22-Apr-2014 17:13
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: KKP	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	10-Apr-2014 17:37
Surr: 4-Bromofluorobenzene	94.3			70-130	%REC	1	10-Apr-2014 17:37
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	7,300		5.00	10.0	mg/L	1	10-Apr-2014 09:55
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	2,490		20.0	50.0	mg/L	100	24-Apr-2014 22:21
Fluoride	0.770		0.100	0.200	mg/L	2	21-Apr-2014 02:37
Sulfate	2,060		20.0	50.0	mg/L	100	24-Apr-2014 22:21
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	13-Apr-2014 04:13
Surr: 2-Fluorobiphenyl	121			60-135	%REC	1	13-Apr-2014 04:13
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 04:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: OCD-2A-0414-D
Collection Date: 03-Apr-2014 13:25

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-18
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00200	0.0100	mg/L	2	24-Apr-2014 07:44
Barium	0.0203		0.00180	0.0100	mg/L	2	24-Apr-2014 07:44
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 07:44
Iron	U		0.156	0.400	mg/L	2	24-Apr-2014 07:44
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 07:44
Manganese	0.440		0.00500	0.0100	mg/L	2	24-Apr-2014 07:44
Selenium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 07:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-3-0414
 Collection Date: 03-Apr-2014 14:05

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-19
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 00:08
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 00:08
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	12-Apr-2014 00:08
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
2-Butanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 00:08
2-Hexanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 00:08
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 00:08
Acetone	U		0.0020	0.010	mg/L	1	12-Apr-2014 00:08
Benzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
Bromoform	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
Bromomethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
Carbon disulfide	U		0.00090	0.010	mg/L	1	12-Apr-2014 00:08
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
Chlorobenzene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 00:08
Chloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
Chloroform	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
Chloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
Ethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
m,p-Xylene	U		0.00060	0.010	mg/L	1	12-Apr-2014 00:08
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
Methylene chloride	U		0.0010	0.010	mg/L	1	12-Apr-2014 00:08
Naphthalene	U		0.00070	0.0050	mg/L	1	12-Apr-2014 00:08
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	12-Apr-2014 00:08
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
o-Xylene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
Styrene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
Toluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 00:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-3-0414
 Collection Date: 03-Apr-2014 14:05

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-19
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 00:08
Trichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 00:08
Vinyl chloride	U		0.00040	0.0020	mg/L	1	12-Apr-2014 00:08
Xylenes, Total	U		0.0015	0.015	mg/L	1	12-Apr-2014 00:08
Surr: 1,2-Dichloroethane-d4	101			70-125	%REC	1	12-Apr-2014 00:08
Surr: 4-Bromofluorobenzene	95.4			72-125	%REC	1	12-Apr-2014 00:08
Surr: Dibromofluoromethane	102			71-125	%REC	1	12-Apr-2014 00:08
Surr: Toluene-d8	98.5			75-125	%REC	1	12-Apr-2014 00:08
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 21-Apr-2014 Analyst: ALR	
Arsenic	0.00631	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:50
Barium	0.0198		0.00180	0.0100	mg/L	2	26-Apr-2014 07:14
Calcium	514		6.70	50.0	mg/L	100	22-Apr-2014 17:18
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 02:50
Iron	1.69		0.100	0.400	mg/L	2	24-Apr-2014 02:50
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 02:50
Manganese	0.134		0.00500	0.0100	mg/L	2	24-Apr-2014 02:50
Potassium	13.4		0.100	0.400	mg/L	2	25-Apr-2014 00:15
Selenium	0.00206	J	0.00200	0.0100	mg/L	2	24-Apr-2014 02:50
Sodium	680		5.00	20.0	mg/L	100	22-Apr-2014 17:18
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: KKP	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	10-Apr-2014 17:56
Surr: 4-Bromofluorobenzene	93.1			70-130	%REC	1	10-Apr-2014 17:56
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,160		5.00	10.0	mg/L	1	10-Apr-2014 09:55
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	990		20.0	50.0	mg/L	100	24-Apr-2014 23:04
Fluoride	0.768		0.100	0.200	mg/L	2	21-Apr-2014 02:51
Sulfate	2,000		20.0	50.0	mg/L	100	24-Apr-2014 23:04
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	13-Apr-2014 04:39
Surr: 2-Fluorobiphenyl	105			60-135	%REC	1	13-Apr-2014 04:39
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 04:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: OCD-3-0414-D
Collection Date: 03-Apr-2014 14:05

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00200	0.0100	mg/L	2	24-Apr-2014 08:05
Barium	0.0187		0.00180	0.0100	mg/L	2	24-Apr-2014 08:05
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 08:05
Iron	U		0.156	0.400	mg/L	2	24-Apr-2014 08:05
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 08:05
Manganese	0.0572		0.00500	0.0100	mg/L	2	24-Apr-2014 08:05
Selenium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 08:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: EB-3-0414
 Collection Date: 03-Apr-2014 16:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-21
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:52
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:52
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	12-Apr-2014 19:52
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
2-Butanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:52
2-Hexanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:52
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:52
Acetone	U		0.0020	0.010	mg/L	1	12-Apr-2014 19:52
Benzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
Bromoform	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
Bromomethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
Carbon disulfide	U		0.00090	0.010	mg/L	1	12-Apr-2014 19:52
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
Chlorobenzene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:52
Chloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
Chloroform	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
Chloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
Ethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
m,p-Xylene	U		0.00060	0.010	mg/L	1	12-Apr-2014 19:52
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
Methylene chloride	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:52
Naphthalene	U		0.00070	0.0050	mg/L	1	12-Apr-2014 19:52
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	12-Apr-2014 19:52
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
o-Xylene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
Styrene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
Toluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: EB-3-0414
 Collection Date: 03-Apr-2014 16:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-21
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:52
Trichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:52
Vinyl chloride	U		0.00040	0.0020	mg/L	1	12-Apr-2014 19:52
Xylenes, Total	U		0.0015	0.015	mg/L	1	12-Apr-2014 19:52
Surr: 1,2-Dichloroethane-d4	110			70-125	%REC	1	12-Apr-2014 19:52
Surr: 4-Bromofluorobenzene	95.8			72-125	%REC	1	12-Apr-2014 19:52
Surr: Dibromofluoromethane	111			71-125	%REC	1	12-Apr-2014 19:52
Surr: Toluene-d8	97.2			75-125	%REC	1	12-Apr-2014 19:52
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 21-Apr-2014 Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	23-Apr-2014 15:57
Barium	U		0.000900	0.00500	mg/L	1	23-Apr-2014 15:57
Calcium	U		0.0670	0.500	mg/L	1	23-Apr-2014 15:57
Chromium	U		0.00100	0.00500	mg/L	1	23-Apr-2014 15:57
Iron	U		0.0500	0.200	mg/L	1	23-Apr-2014 15:57
Lead	U		0.000700	0.00500	mg/L	1	23-Apr-2014 15:57
Manganese	U		0.00250	0.00500	mg/L	1	23-Apr-2014 15:57
Nickel	U		0.00100	0.00500	mg/L	1	23-Apr-2014 15:57
Potassium	U		0.0500	0.200	mg/L	1	23-Apr-2014 15:57
Selenium	U		0.00100	0.00500	mg/L	1	23-Apr-2014 15:57
Sodium	U		0.0500	0.200	mg/L	1	23-Apr-2014 15:57
Vanadium	U		0.000900	0.00500	mg/L	1	23-Apr-2014 15:57
CYANIDE BY SW9012B			Method:SW9012			Prep:SW9010C Analyst: KKB	
Cyanide	U	H	0.00500	0.0200	mg/L	1	30-Apr-2014 13:04
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: KKP	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	10-Apr-2014 18:14
Surr: 4-Bromofluorobenzene	92.3			70-130	%REC	1	10-Apr-2014 18:14
MERCURY BY SW7470A			Method:SW7470			Prep:SW7470 / 29-Apr-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:42
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	U		5.00	10.0	mg/L	1	10-Apr-2014 13:45
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	0.309	J	0.200	0.500	mg/L	1	21-Apr-2014 03:06
Fluoride	U		0.0500	0.100	mg/L	1	21-Apr-2014 03:06
Sulfate	0.390	J	0.200	0.500	mg/L	1	21-Apr-2014 03:06
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	13-Apr-2014 05:06
Surr: 2-Fluorobiphenyl	112			60-135	%REC	1	13-Apr-2014 05:06
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	0.238	J	0.150	1.00	mg/L	5	21-Apr-2014 05:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: EB-3-0414-D
Collection Date: 03-Apr-2014 16:00

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-22
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	25-Apr-2014 01:00
Barium	U		0.000900	0.00500	mg/L	1	25-Apr-2014 01:00
Chromium	U		0.00100	0.00500	mg/L	1	25-Apr-2014 01:00
Iron	U		0.0780	0.200	mg/L	1	25-Apr-2014 01:00
Lead	U		0.000700	0.00500	mg/L	1	25-Apr-2014 01:00
Manganese	U		0.00250	0.00500	mg/L	1	25-Apr-2014 01:00
Nickel	U		0.00100	0.00500	mg/L	1	25-Apr-2014 01:00
Selenium	U		0.00100	0.00500	mg/L	1	25-Apr-2014 01:00
Vanadium	U		0.000900	0.00500	mg/L	1	25-Apr-2014 01:00
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-25-0414
 Collection Date: 03-Apr-2014 12:05

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-23
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 14:51
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 14:51
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	12-Apr-2014 14:51
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
2-Butanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 14:51
2-Hexanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 14:51
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 14:51
Acetone	U		0.0020	0.010	mg/L	1	12-Apr-2014 14:51
Benzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
Bromoform	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
Bromomethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
Carbon disulfide	U		0.00090	0.010	mg/L	1	12-Apr-2014 14:51
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
Chlorobenzene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 14:51
Chloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
Chloroform	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
Chloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
Ethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
m,p-Xylene	U		0.00060	0.010	mg/L	1	12-Apr-2014 14:51
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
Methylene chloride	U		0.0010	0.010	mg/L	1	12-Apr-2014 14:51
Naphthalene	U		0.00070	0.0050	mg/L	1	12-Apr-2014 14:51
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	12-Apr-2014 14:51
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
o-Xylene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
Styrene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
Toluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 14:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-25-0414
 Collection Date: 03-Apr-2014 12:05

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-23
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 14:51
Trichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 14:51
Vinyl chloride	U		0.00040	0.0020	mg/L	1	12-Apr-2014 14:51
Xylenes, Total	U		0.0015	0.015	mg/L	1	12-Apr-2014 14:51
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	12-Apr-2014 14:51
Surr: 4-Bromofluorobenzene	103			72-125	%REC	1	12-Apr-2014 14:51
Surr: Dibromofluoromethane	101			71-125	%REC	1	12-Apr-2014 14:51
Surr: Toluene-d8	104			75-125	%REC	1	12-Apr-2014 14:51
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 28-Apr-2014 Analyst: SKS	
Arsenic	0.00502	J	0.00500	0.0250	mg/L	5	01-May-2014 15:05
Barium	0.0265		0.00180	0.0100	mg/L	2	01-May-2014 00:55
Calcium	985		3.35	25.0	mg/L	50	01-May-2014 17:16
Chromium	U		0.00500	0.0250	mg/L	5	01-May-2014 15:05
Iron	U		0.250	1.00	mg/L	5	01-May-2014 15:05
Lead	U		0.00350	0.0250	mg/L	5	01-May-2014 15:05
Manganese	1.09		0.0125	0.0250	mg/L	5	01-May-2014 15:05
Potassium	6.80		0.100	0.400	mg/L	2	01-May-2014 00:55
Selenium	U		0.00500	0.0250	mg/L	5	01-May-2014 15:05
Sodium	1,220		2.50	10.0	mg/L	50	01-May-2014 17:16
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	11,700		5.00	10.0	mg/L	1	10-Apr-2014 09:55
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	4,440		20.0	50.0	mg/L	100	24-Apr-2014 23:19
Fluoride	0.635		0.100	0.200	mg/L	2	21-Apr-2014 03:20
Sulfate	2,060		20.0	50.0	mg/L	100	24-Apr-2014 23:19
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	13-Apr-2014 05:32
Surr: 2-Fluorobiphenyl	88.8			60-135	%REC	1	13-Apr-2014 05:32
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 05:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: MW-25-0414-D
Collection Date: 03-Apr-2014 12:05

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-24
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	0.00575	J	0.00200	0.0100	mg/L	2	24-Apr-2014 08:20
Barium	0.0277		0.00180	0.0100	mg/L	2	24-Apr-2014 08:20
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 08:20
Iron	U		0.156	0.400	mg/L	2	24-Apr-2014 08:20
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 08:20
Manganese	0.121		0.00500	0.0100	mg/L	2	24-Apr-2014 08:20
Selenium	0.00885	J	0.00200	0.0100	mg/L	2	24-Apr-2014 08:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-12-0414
 Collection Date: 04-Apr-2014 09:40

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-25
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Apr-2014		Analyst: SKS	
Arsenic	U		0.00500	0.0250	mg/L	5	01-May-2014 15:11
Barium	0.0194		0.00180	0.0100	mg/L	2	01-May-2014 01:00
Calcium	728		0.335	2.50	mg/L	5	01-May-2014 15:11
Chromium	U		0.00500	0.0250	mg/L	5	01-May-2014 15:11
Iron	0.441	J	0.250	1.00	mg/L	5	01-May-2014 15:11
Lead	U		0.00140	0.0100	mg/L	2	01-May-2014 01:00
Manganese	0.200		0.0125	0.0250	mg/L	5	01-May-2014 15:11
Potassium	5.57		0.100	0.400	mg/L	2	01-May-2014 01:00
Selenium	0.0172	J	0.00500	0.0250	mg/L	5	01-May-2014 15:11
Sodium	1,280		2.50	10.0	mg/L	50	01-May-2014 17:22
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	7,960		5.00	10.0	mg/L	1	10-Apr-2014 13:45
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	2,460		20.0	50.0	mg/L	100	24-Apr-2014 23:33
Fluoride	0.685		0.100	0.200	mg/L	2	21-Apr-2014 03:35
Sulfate	2,490		20.0	50.0	mg/L	100	24-Apr-2014 23:33
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 10-Apr-2014		Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	13-Apr-2014 05:58
Surr: 2-Fluorobiphenyl	117			60-135	%REC	1	13-Apr-2014 05:58
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	4.10		0.150	1.00	mg/L	5	21-Apr-2014 05:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: MW-12-0414-D
Collection Date: 04-Apr-2014 09:40

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-26
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00200	0.0100	mg/L	2	24-Apr-2014 08:25
Barium	0.0204		0.00180	0.0100	mg/L	2	24-Apr-2014 08:25
Chromium	U		0.00200	0.0100	mg/L	2	24-Apr-2014 08:25
Iron	U		0.156	0.400	mg/L	2	24-Apr-2014 08:25
Lead	U		0.00140	0.0100	mg/L	2	24-Apr-2014 08:25
Manganese	0.183		0.00500	0.0100	mg/L	2	24-Apr-2014 08:25
Selenium	0.0208		0.00200	0.0100	mg/L	2	24-Apr-2014 08:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: EB-4-0414
 Collection Date: 04-Apr-2014 10:05

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-27
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 15:16
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 15:16
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	12-Apr-2014 15:16
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
2-Butanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 15:16
2-Hexanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 15:16
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 15:16
Acetone	0.0025	J	0.0020	0.010	mg/L	1	12-Apr-2014 15:16
Benzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
Bromoform	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
Bromomethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
Carbon disulfide	U		0.00090	0.010	mg/L	1	12-Apr-2014 15:16
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
Chlorobenzene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 15:16
Chloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
Chloroform	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
Chloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
Ethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
m,p-Xylene	U		0.00060	0.010	mg/L	1	12-Apr-2014 15:16
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
Methylene chloride	U		0.0010	0.010	mg/L	1	12-Apr-2014 15:16
Naphthalene	U		0.00070	0.0050	mg/L	1	12-Apr-2014 15:16
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	12-Apr-2014 15:16
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
o-Xylene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
Styrene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
Toluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 15:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: EB-4-0414
 Collection Date: 04-Apr-2014 10:05

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-27
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 15:16
Trichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 15:16
Vinyl chloride	U		0.00040	0.0020	mg/L	1	12-Apr-2014 15:16
Xylenes, Total	U		0.0015	0.015	mg/L	1	12-Apr-2014 15:16
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	12-Apr-2014 15:16
Surr: 4-Bromofluorobenzene	95.4			72-125	%REC	1	12-Apr-2014 15:16
Surr: Dibromofluoromethane	99.5			71-125	%REC	1	12-Apr-2014 15:16
Surr: Toluene-d8	95.0			75-125	%REC	1	12-Apr-2014 15:16
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 28-Apr-2014 Analyst: SKS	
Arsenic	U		0.00100	0.00500	mg/L	1	01-May-2014 15:21
Barium	U		0.000900	0.00500	mg/L	1	01-May-2014 15:21
Calcium	U		0.0670	0.500	mg/L	1	01-May-2014 15:21
Chromium	U		0.00100	0.00500	mg/L	1	01-May-2014 15:21
Iron	U		0.0500	0.200	mg/L	1	01-May-2014 15:21
Lead	0.000714	J	0.000700	0.00500	mg/L	1	01-May-2014 15:21
Manganese	U		0.00250	0.00500	mg/L	1	01-May-2014 15:21
Nickel	U		0.00100	0.00500	mg/L	1	01-May-2014 15:21
Potassium	U		0.0500	0.200	mg/L	1	01-May-2014 15:21
Selenium	U		0.00100	0.00500	mg/L	1	01-May-2014 15:21
Sodium	U		0.0500	0.200	mg/L	1	01-May-2014 15:21
Vanadium	U		0.000900	0.00500	mg/L	1	01-May-2014 15:21
CYANIDE BY SW9012B			Method:SW9012			Prep:SW9010C Analyst: KKB	
Cyanide	U	H	0.00500	0.0200	mg/L	1	30-Apr-2014 13:04
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: KKP	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	10-Apr-2014 19:08
Surr: 4-Bromofluorobenzene	90.7			70-130	%REC	1	10-Apr-2014 19:08
MERCURY BY SW7470A			Method:SW7470			Prep:SW7470 / 29-Apr-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:44
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	U		5.00	10.0	mg/L	1	10-Apr-2014 13:45
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	0.854		0.200	0.500	mg/L	1	21-Apr-2014 03:49
Fluoride	U		0.0500	0.100	mg/L	1	21-Apr-2014 03:49
Sulfate	0.898		0.200	0.500	mg/L	1	21-Apr-2014 03:49
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	13-Apr-2014 06:24
Surr: 2-Fluorobiphenyl	92.8			60-135	%REC	1	13-Apr-2014 06:24
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 06:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: EB-4-0414-D
 Collection Date: 04-Apr-2014 10:05

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-28
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	25-Apr-2014 01:05
Barium	U		0.000900	0.00500	mg/L	1	25-Apr-2014 01:05
Chromium	U		0.00100	0.00500	mg/L	1	25-Apr-2014 01:05
Iron	U		0.0780	0.200	mg/L	1	25-Apr-2014 01:05
Lead	U		0.000700	0.00500	mg/L	1	25-Apr-2014 01:05
Manganese	U		0.00250	0.00500	mg/L	1	25-Apr-2014 01:05
Nickel	U		0.00100	0.00500	mg/L	1	25-Apr-2014 01:05
Selenium	U		0.00100	0.00500	mg/L	1	25-Apr-2014 01:05
Vanadium	U		0.000900	0.00500	mg/L	1	25-Apr-2014 01:05
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-13-0414
 Collection Date: 04-Apr-2014 10:25

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-29
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Apr-2014		Analyst: ALR	
Arsenic	0.00205	J	0.00200	0.0100	mg/L	2	01-May-2014 01:15
Barium	0.0310		0.00180	0.0100	mg/L	2	01-May-2014 01:15
Calcium	682		0.670	5.00	mg/L	10	01-May-2014 15:26
Chromium	U		0.00200	0.0100	mg/L	2	01-May-2014 01:15
Iron	U		0.100	0.400	mg/L	2	01-May-2014 01:15
Lead	U		0.00140	0.0100	mg/L	2	01-May-2014 01:15
Manganese	0.192		0.00500	0.0100	mg/L	2	01-May-2014 01:15
Potassium	5.56		0.100	0.400	mg/L	2	01-May-2014 01:15
Selenium	U		0.00200	0.0100	mg/L	2	01-May-2014 01:15
Sodium	914		0.500	2.00	mg/L	10	01-May-2014 15:26
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	6,520		5.00	10.0	mg/L	1	10-Apr-2014 13:45
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	1,780		20.0	50.0	mg/L	100	24-Apr-2014 23:48
Fluoride	0.354		0.100	0.200	mg/L	2	21-Apr-2014 04:04
Sulfate	2,180		20.0	50.0	mg/L	100	24-Apr-2014 23:48
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 10-Apr-2014		Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	13-Apr-2014 06:50
Surr: 2-Fluorobiphenyl	93.2			60-135	%REC	1	13-Apr-2014 06:50
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	0.463	J	0.150	1.00	mg/L	5	21-Apr-2014 06:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: MW-13-0414-D
Collection Date: 04-Apr-2014 10:25

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-30
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00200	0.0100	mg/L	2	25-Apr-2014 01:59
Barium	0.0334		0.00180	0.0100	mg/L	2	25-Apr-2014 01:59
Chromium	U		0.00200	0.0100	mg/L	2	25-Apr-2014 01:59
Iron	U		0.156	0.400	mg/L	2	25-Apr-2014 01:59
Lead	U		0.00140	0.0100	mg/L	2	25-Apr-2014 01:59
Manganese	0.173		0.00500	0.0100	mg/L	2	25-Apr-2014 01:59
Selenium	U		0.00200	0.0100	mg/L	2	25-Apr-2014 01:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-4-0414
 Collection Date: 04-Apr-2014 11:30

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-31
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 18:12
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 18:12
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	12-Apr-2014 18:12
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
2-Butanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 18:12
2-Hexanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 18:12
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 18:12
Acetone	U		0.0020	0.010	mg/L	1	12-Apr-2014 18:12
Benzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
Bromoform	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
Bromomethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
Carbon disulfide	U		0.00090	0.010	mg/L	1	12-Apr-2014 18:12
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
Chlorobenzene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 18:12
Chloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
Chloroform	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
Chloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
Ethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
m,p-Xylene	U		0.00060	0.010	mg/L	1	12-Apr-2014 18:12
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
Methylene chloride	U		0.0010	0.010	mg/L	1	12-Apr-2014 18:12
Naphthalene	U		0.00070	0.0050	mg/L	1	12-Apr-2014 18:12
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	12-Apr-2014 18:12
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
o-Xylene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
Styrene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
Toluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 18:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-4-0414
 Collection Date: 04-Apr-2014 11:30

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-31
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:12
Trichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:12
Vinyl chloride	U		0.00040	0.0020	mg/L	1	12-Apr-2014 18:12
Xylenes, Total	U		0.0015	0.015	mg/L	1	12-Apr-2014 18:12
Surr: 1,2-Dichloroethane-d4	104			70-125	%REC	1	12-Apr-2014 18:12
Surr: 4-Bromofluorobenzene	96.4			72-125	%REC	1	12-Apr-2014 18:12
Surr: Dibromofluoromethane	103			71-125	%REC	1	12-Apr-2014 18:12
Surr: Toluene-d8	95.6			75-125	%REC	1	12-Apr-2014 18:12
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Apr-2014 Analyst: SKS			
Arsenic	U		0.00500	0.0250	mg/L	5	01-May-2014 15:56
Barium	0.0213		0.00180	0.0100	mg/L	2	01-May-2014 02:44
Calcium	818		0.335	2.50	mg/L	5	01-May-2014 15:56
Chromium	U		0.00500	0.0250	mg/L	5	01-May-2014 15:56
Iron	3.13		0.250	1.00	mg/L	5	01-May-2014 15:56
Lead	U		0.00140	0.0100	mg/L	2	01-May-2014 02:44
Manganese	0.276		0.0125	0.0250	mg/L	5	01-May-2014 15:56
Potassium	37.1		0.100	0.400	mg/L	2	01-May-2014 02:44
Selenium	U		0.00500	0.0250	mg/L	5	01-May-2014 15:56
Sodium	2,520		2.50	10.0	mg/L	50	01-May-2014 16:01
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: KKP			
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	10-Apr-2014 19:26
Surr: 4-Bromofluorobenzene	90.0			70-130	%REC	1	10-Apr-2014 19:26
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	12,900		5.00	10.0	mg/L	1	10-Apr-2014 13:45
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	5,370		20.0	50.0	mg/L	100	25-Apr-2014 00:03
Fluoride	0.787		0.100	0.200	mg/L	2	21-Apr-2014 04:18
Sulfate	2,880		20.0	50.0	mg/L	100	25-Apr-2014 00:03
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 10-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	13-Apr-2014 07:16
Surr: 2-Fluorobiphenyl	94.1			60-135	%REC	1	13-Apr-2014 07:16
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 07:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: OCD-4-0414-D
Collection Date: 04-Apr-2014 11:30

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-32
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:04
Barium	0.0212	J	0.00450	0.0250	mg/L	5	25-Apr-2014 02:04
Chromium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:04
Iron	3.10		0.390	1.00	mg/L	5	25-Apr-2014 02:04
Lead	U		0.00350	0.0250	mg/L	5	25-Apr-2014 02:04
Manganese	0.287		0.0125	0.0250	mg/L	5	25-Apr-2014 02:04
Selenium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-5-0414
 Collection Date: 04-Apr-2014 12:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-33
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 18:37
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 18:37
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	12-Apr-2014 18:37
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
2-Butanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 18:37
2-Hexanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 18:37
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 18:37
Acetone	0.014		0.0020	0.010	mg/L	1	12-Apr-2014 18:37
Benzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
Bromoform	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
Bromomethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
Carbon disulfide	U		0.00090	0.010	mg/L	1	12-Apr-2014 18:37
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
Chlorobenzene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 18:37
Chloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
Chloroform	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
Chloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
Ethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
m,p-Xylene	U		0.00060	0.010	mg/L	1	12-Apr-2014 18:37
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
Methylene chloride	U		0.0010	0.010	mg/L	1	12-Apr-2014 18:37
Naphthalene	U		0.00070	0.0050	mg/L	1	12-Apr-2014 18:37
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	12-Apr-2014 18:37
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
o-Xylene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
Styrene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
Toluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 18:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: OCD-5-0414
 Collection Date: 04-Apr-2014 12:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-33
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 18:37
Trichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 18:37
Vinyl chloride	U		0.00040	0.0020	mg/L	1	12-Apr-2014 18:37
Xylenes, Total	U		0.0015	0.015	mg/L	1	12-Apr-2014 18:37
Surr: 1,2-Dichloroethane-d4	107			70-125	%REC	1	12-Apr-2014 18:37
Surr: 4-Bromofluorobenzene	107			72-125	%REC	1	12-Apr-2014 18:37
Surr: Dibromofluoromethane	103			71-125	%REC	1	12-Apr-2014 18:37
Surr: Toluene-d8	99.4			75-125	%REC	1	12-Apr-2014 18:37
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Apr-2014 Analyst: ALR			
Arsenic	0.00738	J	0.00200	0.0100	mg/L	2	01-May-2014 02:49
Barium	0.0206		0.00180	0.0100	mg/L	2	01-May-2014 02:49
Calcium	744		6.70	50.0	mg/L	100	01-May-2014 16:06
Chromium	U		0.00200	0.0100	mg/L	2	01-May-2014 02:49
Iron	2.47		0.100	0.400	mg/L	2	01-May-2014 02:49
Lead	U		0.00140	0.0100	mg/L	2	01-May-2014 02:49
Manganese	0.411		0.00500	0.0100	mg/L	2	01-May-2014 02:49
Potassium	35.7		0.100	0.400	mg/L	2	01-May-2014 02:49
Selenium	U		0.00200	0.0100	mg/L	2	01-May-2014 02:49
Sodium	2,580		5.00	20.0	mg/L	100	01-May-2014 16:06
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: KKP			
Gasoline Range Organics	0.127		0.0100	0.0500	mg/L	1	10-Apr-2014 19:44
Surr: 4-Bromofluorobenzene	89.8			70-130	%REC	1	10-Apr-2014 19:44
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	12,400		5.00	10.0	mg/L	1	10-Apr-2014 13:45
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	4,810		20.0	50.0	mg/L	100	25-Apr-2014 00:17
Fluoride	0.613		0.100	0.200	mg/L	2	21-Apr-2014 04:33
Sulfate	2,710		20.0	50.0	mg/L	100	25-Apr-2014 00:17
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 10-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	13-Apr-2014 07:42
Surr: 2-Fluorobiphenyl	95.6			60-135	%REC	1	13-Apr-2014 07:42
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 07:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: OCD-5-0414-D
Collection Date: 04-Apr-2014 12:00

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-34
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	0.00550	J	0.00500	0.0250	mg/L	5	25-Apr-2014 02:09
Barium	0.0243	J	0.00450	0.0250	mg/L	5	25-Apr-2014 02:09
Chromium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:09
Iron	1.61		0.390	1.00	mg/L	5	25-Apr-2014 02:09
Lead	U		0.00350	0.0250	mg/L	5	25-Apr-2014 02:09
Manganese	0.375		0.0125	0.0250	mg/L	5	25-Apr-2014 02:09
Selenium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: Dup-3-0414
 Collection Date: 04-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-35
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:02
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:02
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	12-Apr-2014 19:02
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
2-Butanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:02
2-Hexanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:02
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:02
Acetone	0.011		0.0020	0.010	mg/L	1	12-Apr-2014 19:02
Benzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
Bromoform	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
Bromomethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
Carbon disulfide	U		0.00090	0.010	mg/L	1	12-Apr-2014 19:02
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
Chlorobenzene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:02
Chloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
Chloroform	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
Chloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
Ethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
m,p-Xylene	U		0.00060	0.010	mg/L	1	12-Apr-2014 19:02
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
Methylene chloride	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:02
Naphthalene	U		0.00070	0.0050	mg/L	1	12-Apr-2014 19:02
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	12-Apr-2014 19:02
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
o-Xylene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
Styrene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
Toluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: Dup-3-0414
 Collection Date: 04-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-35
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:02
Trichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:02
Vinyl chloride	U		0.00040	0.0020	mg/L	1	12-Apr-2014 19:02
Xylenes, Total	U		0.0015	0.015	mg/L	1	12-Apr-2014 19:02
Surr: 1,2-Dichloroethane-d4	100			70-125	%REC	1	12-Apr-2014 19:02
Surr: 4-Bromofluorobenzene	108			72-125	%REC	1	12-Apr-2014 19:02
Surr: Dibromofluoromethane	99.5			71-125	%REC	1	12-Apr-2014 19:02
Surr: Toluene-d8	105			75-125	%REC	1	12-Apr-2014 19:02
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 28-Apr-2014 Analyst: ALR	
Arsenic	0.00491	J	0.00200	0.0100	mg/L	2	01-May-2014 02:59
Barium	0.0211		0.00180	0.0100	mg/L	2	01-May-2014 02:59
Calcium	694		6.70	50.0	mg/L	100	01-May-2014 16:36
Chromium	U		0.00200	0.0100	mg/L	2	01-May-2014 02:59
Iron	1.28		0.100	0.400	mg/L	2	01-May-2014 02:59
Lead	U		0.00140	0.0100	mg/L	2	01-May-2014 02:59
Manganese	0.364		0.00500	0.0100	mg/L	2	01-May-2014 02:59
Potassium	35.1		0.100	0.400	mg/L	2	01-May-2014 02:59
Selenium	U		0.00200	0.0100	mg/L	2	01-May-2014 02:59
Sodium	2,400		5.00	20.0	mg/L	100	01-May-2014 16:36
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: KKP	
Gasoline Range Organics	0.140		0.0100	0.0500	mg/L	1	10-Apr-2014 20:03
Surr: 4-Bromofluorobenzene	89.7			70-130	%REC	1	10-Apr-2014 20:03
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	11,900		5.00	10.0	mg/L	1	10-Apr-2014 13:45
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	5,250		20.0	50.0	mg/L	100	25-Apr-2014 00:32
Fluoride	0.670		0.100	0.200	mg/L	2	21-Apr-2014 04:48
Sulfate	2,970		20.0	50.0	mg/L	100	25-Apr-2014 00:32
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 10-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	13-Apr-2014 08:08
Surr: 2-Fluorobiphenyl	122			60-135	%REC	1	13-Apr-2014 08:08
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	21-Apr-2014 07:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: Dup-3-0414-D
Collection Date: 04-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-36
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:14
Barium	0.0241	J	0.00450	0.0250	mg/L	5	25-Apr-2014 02:14
Chromium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:14
Iron	1.62		0.390	1.00	mg/L	5	25-Apr-2014 02:14
Lead	U		0.00350	0.0250	mg/L	5	25-Apr-2014 02:14
Manganese	0.386		0.0125	0.0250	mg/L	5	25-Apr-2014 02:14
Selenium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-11A-0414
 Collection Date: 04-Apr-2014 12:45

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-37
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:27
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:27
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	12-Apr-2014 19:27
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
2-Butanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:27
2-Hexanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:27
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:27
Acetone	U		0.0020	0.010	mg/L	1	12-Apr-2014 19:27
Benzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
Bromoform	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
Bromomethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
Carbon disulfide	U		0.00090	0.010	mg/L	1	12-Apr-2014 19:27
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
Chlorobenzene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:27
Chloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
Chloroform	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
Chloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
Ethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
m,p-Xylene	U		0.00060	0.010	mg/L	1	12-Apr-2014 19:27
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
Methylene chloride	U		0.0010	0.010	mg/L	1	12-Apr-2014 19:27
Naphthalene	U		0.00070	0.0050	mg/L	1	12-Apr-2014 19:27
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	12-Apr-2014 19:27
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
o-Xylene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
Styrene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
Toluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 19:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: MW-11A-0414
 Collection Date: 04-Apr-2014 12:45

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-37
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 19:27
Trichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 19:27
Vinyl chloride	U		0.00040	0.0020	mg/L	1	12-Apr-2014 19:27
Xylenes, Total	U		0.0015	0.015	mg/L	1	12-Apr-2014 19:27
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	12-Apr-2014 19:27
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	12-Apr-2014 19:27
Surr: Dibromofluoromethane	106			71-125	%REC	1	12-Apr-2014 19:27
Surr: Toluene-d8	100			75-125	%REC	1	12-Apr-2014 19:27
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Apr-2014 Analyst: SKS			
Arsenic	U		0.0100	0.0500	mg/L	10	01-May-2014 16:41
Barium	0.0321		0.00180	0.0100	mg/L	2	01-May-2014 03:04
Calcium	1,250		6.70	50.0	mg/L	100	01-May-2014 16:46
Chromium	U		0.0100	0.0500	mg/L	10	01-May-2014 16:41
Iron	2.50		0.500	2.00	mg/L	10	01-May-2014 16:41
Lead	U		0.00700	0.0500	mg/L	10	01-May-2014 16:41
Manganese	1.56		0.0250	0.0500	mg/L	10	01-May-2014 16:41
Potassium	22.9		0.100	0.400	mg/L	2	01-May-2014 03:04
Selenium	U		0.0100	0.0500	mg/L	10	01-May-2014 16:41
Sodium	5,140		5.00	20.0	mg/L	100	01-May-2014 16:46
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: KKP			
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	10-Apr-2014 20:21
Surr: 4-Bromofluorobenzene	90.2			70-130	%REC	1	10-Apr-2014 20:21
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	25,400		5.00	10.0	mg/L	1	10-Apr-2014 13:45
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	12,400		100	250	mg/L	500	25-Apr-2014 00:46
Fluoride	0.647		0.100	0.200	mg/L	2	21-Apr-2014 05:02
Sulfate	2,410		100	250	mg/L	500	25-Apr-2014 00:46
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 10-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	13-Apr-2014 08:35
Surr: 2-Fluorobiphenyl	93.5			60-135	%REC	1	13-Apr-2014 08:35
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	0.488	J	0.150	1.00	mg/L	5	21-Apr-2014 09:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: MW-11A-0414-D
Collection Date: 04-Apr-2014 12:45

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-38
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Apr-2014		Analyst: ALR	
Arsenic	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:19
Barium	0.0370		0.00450	0.0250	mg/L	5	25-Apr-2014 02:19
Chromium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:19
Iron	0.924	J	0.390	1.00	mg/L	5	25-Apr-2014 02:19
Lead	U		0.00350	0.0250	mg/L	5	25-Apr-2014 02:19
Manganese	1.84		0.0125	0.0250	mg/L	5	25-Apr-2014 02:19
Selenium	U		0.00500	0.0250	mg/L	5	25-Apr-2014 02:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: Artesia Refinery Semi-Annual
 Sample ID: TB-032514-40
 Collection Date: 04-Apr-2014 14:00

ANALYTICAL REPORT

WorkOrder:HS14040311
 Lab ID:HS14040311-39
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 17:46
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	12-Apr-2014 17:46
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	12-Apr-2014 17:46
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
2-Butanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 17:46
2-Hexanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 17:46
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	12-Apr-2014 17:46
Acetone	U		0.0020	0.010	mg/L	1	12-Apr-2014 17:46
Benzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
Bromoform	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
Bromomethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
Carbon disulfide	U		0.00090	0.010	mg/L	1	12-Apr-2014 17:46
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
Chlorobenzene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 17:46
Chloroethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
Chloroform	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
Chloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
Ethylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
m,p-Xylene	U		0.00060	0.010	mg/L	1	12-Apr-2014 17:46
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
Methylene chloride	U		0.0010	0.010	mg/L	1	12-Apr-2014 17:46
Naphthalene	U		0.00070	0.0050	mg/L	1	12-Apr-2014 17:46
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	12-Apr-2014 17:46
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
o-Xylene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
Styrene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
Toluene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	12-Apr-2014 17:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Sample ID: TB-032514-40
Collection Date: 04-Apr-2014 14:00

ANALYTICAL REPORT

WorkOrder:HS14040311
Lab ID:HS14040311-39
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	12-Apr-2014 17:46
Trichloroethene	U		0.00050	0.0050	mg/L	1	12-Apr-2014 17:46
Vinyl chloride	U		0.00040	0.0020	mg/L	1	12-Apr-2014 17:46
Xylenes, Total	U		0.0015	0.015	mg/L	1	12-Apr-2014 17:46
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	12-Apr-2014 17:46
Surr: 4-Bromofluorobenzene	97.3			72-125	%REC	1	12-Apr-2014 17:46
Surr: Dibromofluoromethane	103			71-125	%REC	1	12-Apr-2014 17:46
Surr: Toluene-d8	95.5			75-125	%REC	1	12-Apr-2014 17:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
WorkOrder: HS14040311

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 80589	Test Name : TPH DRO/ORO BY SW8015C			Matrix: Water		
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25		10 Apr 2014 09:00	12 Apr 2014 23:52	1
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00		10 Apr 2014 09:00	13 Apr 2014 00:18	1
HS14040311-05	MW-3-0414	03 Apr 2014 09:45		10 Apr 2014 09:00	13 Apr 2014 00:44	1
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00		10 Apr 2014 09:00	13 Apr 2014 01:10	1
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10		10 Apr 2014 09:00	13 Apr 2014 01:36	1
HS14040311-11	MW-15-0414	03 Apr 2014 11:00		10 Apr 2014 09:00	13 Apr 2014 02:03	1
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35		10 Apr 2014 09:00	13 Apr 2014 02:29	1
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50		10 Apr 2014 09:00	13 Apr 2014 03:47	1
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25		10 Apr 2014 09:00	13 Apr 2014 04:13	1
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05		10 Apr 2014 09:00	13 Apr 2014 04:39	1
HS14040311-21	EB-3-0414	03 Apr 2014 16:00		10 Apr 2014 09:00	13 Apr 2014 05:06	1
HS14040311-23	MW-25-0414	03 Apr 2014 12:05		10 Apr 2014 09:00	13 Apr 2014 05:32	1
HS14040311-25	MW-12-0414	04 Apr 2014 09:40		10 Apr 2014 09:00	13 Apr 2014 05:58	1
HS14040311-27	EB-4-0414	04 Apr 2014 10:05		10 Apr 2014 09:00	13 Apr 2014 06:24	1
HS14040311-29	MW-13-0414	04 Apr 2014 10:25		10 Apr 2014 09:00	13 Apr 2014 06:50	1
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30		10 Apr 2014 09:00	13 Apr 2014 07:16	1
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00		10 Apr 2014 09:00	13 Apr 2014 07:42	1
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00		10 Apr 2014 09:00	13 Apr 2014 08:08	1
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45		10 Apr 2014 09:00	13 Apr 2014 08:35	1

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
WorkOrder: HS14040311

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 80980	Test Name : ICP-MS METALS BY SW6020A			Matrix: Water		
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25		21 Apr 2014 08:00	23 Apr 2014 07:56	5
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25		21 Apr 2014 08:00	22 Apr 2014 16:08	100
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00		21 Apr 2014 08:00	24 Apr 2014 01:45	2
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00		21 Apr 2014 08:00	22 Apr 2014 16:27	100
HS14040311-05	MW-3-0414	03 Apr 2014 09:45		21 Apr 2014 08:00	24 Apr 2014 01:50	2
HS14040311-05	MW-3-0414	03 Apr 2014 09:45		21 Apr 2014 08:00	22 Apr 2014 16:43	100
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00		21 Apr 2014 08:00	24 Apr 2014 02:00	2
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00		21 Apr 2014 08:00	22 Apr 2014 16:47	100
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10		21 Apr 2014 08:00	24 Apr 2014 02:05	2
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10		21 Apr 2014 08:00	22 Apr 2014 16:53	100
HS14040311-11	MW-15-0414	03 Apr 2014 11:00		21 Apr 2014 08:00	24 Apr 2014 02:15	2
HS14040311-11	MW-15-0414	03 Apr 2014 11:00		21 Apr 2014 08:00	22 Apr 2014 16:58	100
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35		21 Apr 2014 08:00	24 Apr 2014 23:55	2
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35		21 Apr 2014 08:00	24 Apr 2014 02:30	2
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35		21 Apr 2014 08:00	22 Apr 2014 17:03	100
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50		21 Apr 2014 08:00	26 Apr 2014 06:54	5
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50		21 Apr 2014 08:00	25 Apr 2014 00:00	2
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50		21 Apr 2014 08:00	24 Apr 2014 02:35	2
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50		21 Apr 2014 08:00	22 Apr 2014 17:08	100
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25		21 Apr 2014 08:00	26 Apr 2014 07:04	2
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25		21 Apr 2014 08:00	24 Apr 2014 02:45	2
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25		21 Apr 2014 08:00	22 Apr 2014 17:13	100
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05		21 Apr 2014 08:00	26 Apr 2014 07:14	2
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05		21 Apr 2014 08:00	25 Apr 2014 00:15	2
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05		21 Apr 2014 08:00	24 Apr 2014 02:50	2
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05		21 Apr 2014 08:00	22 Apr 2014 17:18	100
HS14040311-21	EB-3-0414	03 Apr 2014 16:00		21 Apr 2014 08:00	23 Apr 2014 15:57	1

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
WorkOrder: HS14040311

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81025	Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water		
HS14040311-02	OCD-6-0414-D	03 Apr 2014 08:25		22 Apr 2014 11:00	25 Apr 2014 01:20	5
HS14040311-04	OCD-7AR-0414-D	03 Apr 2014 09:00		22 Apr 2014 11:00	24 Apr 2014 06:49	2
HS14040311-06	MW-3-0414-D	03 Apr 2014 09:45		22 Apr 2014 11:00	24 Apr 2014 06:54	2
HS14040311-08	Dup-2-0414-D	03 Apr 2014 00:00		22 Apr 2014 11:00	24 Apr 2014 07:04	2
HS14040311-10	MW-6A-0414-D	03 Apr 2014 10:10		22 Apr 2014 11:00	24 Apr 2014 07:09	2
HS14040311-12	MW-15-0414-D	03 Apr 2014 11:00		22 Apr 2014 11:00	24 Apr 2014 07:24	2
HS14040311-14	MW-1R-0414-D	03 Apr 2014 11:35		22 Apr 2014 11:00	24 Apr 2014 07:29	2
HS14040311-16	OCD-1R-0414-D	03 Apr 2014 12:50		22 Apr 2014 11:00	24 Apr 2014 07:39	2
HS14040311-18	OCD-2A-0414-D	03 Apr 2014 13:25		22 Apr 2014 11:00	24 Apr 2014 07:44	2
HS14040311-20	OCD-3-0414-D	03 Apr 2014 14:05		22 Apr 2014 11:00	24 Apr 2014 08:05	2
HS14040311-22	EB-3-0414-D	03 Apr 2014 16:00		22 Apr 2014 11:00	25 Apr 2014 01:00	1
HS14040311-24	MW-25-0414-D	03 Apr 2014 12:05		22 Apr 2014 11:00	24 Apr 2014 08:20	2
HS14040311-26	MW-12-0414-D	04 Apr 2014 09:40		22 Apr 2014 11:00	24 Apr 2014 08:25	2
HS14040311-28	EB-4-0414-D	04 Apr 2014 10:05		22 Apr 2014 11:00	25 Apr 2014 01:05	1
HS14040311-30	MW-13-0414-D	04 Apr 2014 10:25		22 Apr 2014 11:00	25 Apr 2014 01:59	2
HS14040311-32	OCD-4-0414-D	04 Apr 2014 11:30		22 Apr 2014 11:00	25 Apr 2014 02:04	5
HS14040311-34	OCD-5-0414-D	04 Apr 2014 12:00		22 Apr 2014 11:00	25 Apr 2014 02:09	5
HS14040311-36	Dup-3-0414-D	04 Apr 2014 00:00		22 Apr 2014 11:00	25 Apr 2014 02:14	5
HS14040311-38	MW-11A-0414-D	04 Apr 2014 12:45		22 Apr 2014 11:00	25 Apr 2014 02:19	5
Batch ID 81263	Test Name : ICP-MS METALS BY SW6020A			Matrix: Water		
HS14040311-23	MW-25-0414	03 Apr 2014 12:05		28 Apr 2014 10:00	01 May 2014 17:16	50
HS14040311-23	MW-25-0414	03 Apr 2014 12:05		28 Apr 2014 10:00	01 May 2014 15:05	5
HS14040311-23	MW-25-0414	03 Apr 2014 12:05		28 Apr 2014 10:00	01 May 2014 00:55	2
HS14040311-25	MW-12-0414	04 Apr 2014 09:40		28 Apr 2014 10:00	01 May 2014 17:22	50
HS14040311-25	MW-12-0414	04 Apr 2014 09:40		28 Apr 2014 10:00	01 May 2014 15:11	5
HS14040311-25	MW-12-0414	04 Apr 2014 09:40		28 Apr 2014 10:00	01 May 2014 01:00	2
HS14040311-27	EB-4-0414	04 Apr 2014 10:05		28 Apr 2014 10:00	01 May 2014 15:21	1
HS14040311-29	MW-13-0414	04 Apr 2014 10:25		28 Apr 2014 10:00	01 May 2014 15:26	10
HS14040311-29	MW-13-0414	04 Apr 2014 10:25		28 Apr 2014 10:00	01 May 2014 01:15	2
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30		28 Apr 2014 10:00	01 May 2014 16:01	50
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30		28 Apr 2014 10:00	01 May 2014 15:56	5
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30		28 Apr 2014 10:00	01 May 2014 02:44	2
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00		28 Apr 2014 10:00	01 May 2014 16:06	100
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00		28 Apr 2014 10:00	01 May 2014 02:49	2
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00		28 Apr 2014 10:00	01 May 2014 16:36	100
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00		28 Apr 2014 10:00	01 May 2014 02:59	2
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45		28 Apr 2014 10:00	01 May 2014 16:46	100
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45		28 Apr 2014 10:00	01 May 2014 16:41	10
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45		28 Apr 2014 10:00	01 May 2014 03:04	2

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
WorkOrder: HS14040311

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81307 Test Name : DISSOLVED MERCURY BY SW7470A Matrix: Water						
HS14040311-22	EB-3-0414-D	03 Apr 2014 16:00		29 Apr 2014 09:00	29 Apr 2014 13:30	1
HS14040311-28	EB-4-0414-D	04 Apr 2014 10:05		29 Apr 2014 09:00	29 Apr 2014 13:32	1
Batch ID 81311 Test Name : MERCURY BY SW7470A Matrix: Water						
HS14040311-21	EB-3-0414	03 Apr 2014 16:00		29 Apr 2014 10:19	29 Apr 2014 14:42	1
HS14040311-27	EB-4-0414	04 Apr 2014 10:05		29 Apr 2014 10:19	29 Apr 2014 14:44	1
Batch ID R231626 Test Name : GASOLINE RANGE ORGANICS BY SW8015C Matrix: Water						
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25			10 Apr 2014 14:17	1
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00			10 Apr 2014 15:11	1
HS14040311-05	MW-3-0414	03 Apr 2014 09:45			10 Apr 2014 15:30	1
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00			10 Apr 2014 15:48	1
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10			10 Apr 2014 16:24	1
HS14040311-11	MW-15-0414	03 Apr 2014 11:00			10 Apr 2014 16:42	1
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50			10 Apr 2014 17:18	1
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25			10 Apr 2014 17:37	1
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05			10 Apr 2014 17:56	1
HS14040311-21	EB-3-0414	03 Apr 2014 16:00			10 Apr 2014 18:14	1
HS14040311-27	EB-4-0414	04 Apr 2014 10:05			10 Apr 2014 19:08	1
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30			10 Apr 2014 19:26	1
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00			10 Apr 2014 19:44	1
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00			10 Apr 2014 20:03	1
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45			10 Apr 2014 20:21	1
Batch ID R231649 Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C Matrix: Water						
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25			09 Apr 2014 09:55	1
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00			09 Apr 2014 09:55	1
HS14040311-05	MW-3-0414	03 Apr 2014 09:45			09 Apr 2014 09:55	1
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00			09 Apr 2014 09:55	1
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10			09 Apr 2014 09:55	1
Batch ID R231708 Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C Matrix: Water						
HS14040311-11	MW-15-0414	03 Apr 2014 11:00			10 Apr 2014 09:55	1
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35			10 Apr 2014 09:55	1
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50			10 Apr 2014 09:55	1
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25			10 Apr 2014 09:55	1
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05			10 Apr 2014 09:55	1
HS14040311-23	MW-25-0414	03 Apr 2014 12:05			10 Apr 2014 09:55	1

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
WorkOrder: HS14040311

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R231727 Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C Matrix: Water						
HS14040311-21	EB-3-0414	03 Apr 2014 16:00			10 Apr 2014 13:45	1
HS14040311-25	MW-12-0414	04 Apr 2014 09:40			10 Apr 2014 13:45	1
HS14040311-27	EB-4-0414	04 Apr 2014 10:05			10 Apr 2014 13:45	1
HS14040311-29	MW-13-0414	04 Apr 2014 10:25			10 Apr 2014 13:45	1
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30			10 Apr 2014 13:45	1
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00			10 Apr 2014 13:45	1
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00			10 Apr 2014 13:45	1
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45			10 Apr 2014 13:45	1
Batch ID R231740 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25			11 Apr 2014 20:22	1
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00			11 Apr 2014 20:47	1
HS14040311-05	MW-3-0414	03 Apr 2014 09:45			11 Apr 2014 21:12	1
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00			11 Apr 2014 21:37	1
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10			11 Apr 2014 22:03	1
HS14040311-11	MW-15-0414	03 Apr 2014 11:00			11 Apr 2014 22:28	1
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35			11 Apr 2014 22:53	1
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50			11 Apr 2014 23:18	1
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25			11 Apr 2014 23:43	1
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05			12 Apr 2014 00:08	1
Batch ID R231801 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040311-21	EB-3-0414	03 Apr 2014 16:00			12 Apr 2014 19:52	1
HS14040311-23	MW-25-0414	03 Apr 2014 12:05			12 Apr 2014 14:51	1
HS14040311-27	EB-4-0414	04 Apr 2014 10:05			12 Apr 2014 15:16	1
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30			12 Apr 2014 18:12	1
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00			12 Apr 2014 18:37	1
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00			12 Apr 2014 19:02	1
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45			12 Apr 2014 19:27	1
HS14040311-39	TB-032514-40	04 Apr 2014 14:00			12 Apr 2014 17:46	1

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
WorkOrder: HS14040311

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R232206	Test Name : ANIONS BY E300.0			Matrix: Water		
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25			21 Apr 2014 00:20	5
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00			21 Apr 2014 00:44	5
HS14040311-05	MW-3-0414	03 Apr 2014 09:45			21 Apr 2014 01:08	5
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00			21 Apr 2014 01:32	5
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10			21 Apr 2014 01:56	5
HS14040311-11	MW-15-0414	03 Apr 2014 11:00			21 Apr 2014 02:20	5
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35			21 Apr 2014 02:44	5
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50			21 Apr 2014 03:09	5
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25			21 Apr 2014 04:21	5
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05			21 Apr 2014 04:45	5
HS14040311-21	EB-3-0414	03 Apr 2014 16:00			21 Apr 2014 05:09	5
HS14040311-23	MW-25-0414	03 Apr 2014 12:05			21 Apr 2014 05:33	5
HS14040311-25	MW-12-0414	04 Apr 2014 09:40			21 Apr 2014 05:57	5
HS14040311-27	EB-4-0414	04 Apr 2014 10:05			21 Apr 2014 06:22	5
HS14040311-29	MW-13-0414	04 Apr 2014 10:25			21 Apr 2014 06:46	5
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30			21 Apr 2014 07:10	5
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00			21 Apr 2014 07:34	5
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00			21 Apr 2014 07:58	5
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45			21 Apr 2014 09:11	5

Batch ID R232582	Test Name : ANIONS BY E300.0			Matrix: Water		
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25			21 Apr 2014 00:11	2
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00			21 Apr 2014 00:26	2
HS14040311-05	MW-3-0414	03 Apr 2014 09:45			21 Apr 2014 00:40	2
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00			21 Apr 2014 00:55	2
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10			21 Apr 2014 01:09	2
HS14040311-11	MW-15-0414	03 Apr 2014 11:00			21 Apr 2014 01:24	2
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35			21 Apr 2014 01:38	2
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50			21 Apr 2014 01:53	2
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25			21 Apr 2014 02:37	2
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05			21 Apr 2014 02:51	2
HS14040311-21	EB-3-0414	03 Apr 2014 16:00			21 Apr 2014 03:06	1
HS14040311-23	MW-25-0414	03 Apr 2014 12:05			21 Apr 2014 03:20	2
HS14040311-25	MW-12-0414	04 Apr 2014 09:40			21 Apr 2014 03:35	2
HS14040311-27	EB-4-0414	04 Apr 2014 10:05			21 Apr 2014 03:49	1
HS14040311-29	MW-13-0414	04 Apr 2014 10:25			21 Apr 2014 04:04	2
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30			21 Apr 2014 04:18	2
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00			21 Apr 2014 04:33	2
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00			21 Apr 2014 04:48	2
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45			21 Apr 2014 05:02	2

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
WorkOrder: HS14040311

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R232619	Test Name : ANIONS BY E300.0			Matrix: Water		
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25			24 Apr 2014 20:24	100
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00			24 Apr 2014 20:39	100
HS14040311-05	MW-3-0414	03 Apr 2014 09:45			24 Apr 2014 20:53	100
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00			24 Apr 2014 21:08	100
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10			24 Apr 2014 21:23	100
HS14040311-11	MW-15-0414	03 Apr 2014 11:00			24 Apr 2014 21:37	100
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35			24 Apr 2014 21:52	100
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50			24 Apr 2014 22:06	100
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25			24 Apr 2014 22:21	100
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05			24 Apr 2014 23:04	100
HS14040311-23	MW-25-0414	03 Apr 2014 12:05			24 Apr 2014 23:19	100
HS14040311-25	MW-12-0414	04 Apr 2014 09:40			24 Apr 2014 23:33	100
HS14040311-29	MW-13-0414	04 Apr 2014 10:25			24 Apr 2014 23:48	100
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30			25 Apr 2014 00:03	100
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00			25 Apr 2014 00:17	100
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00			25 Apr 2014 00:32	100
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45			25 Apr 2014 00:46	500
Batch ID R232714	Test Name : NITRATE/NITRITE BY E300.0			Matrix: Water		
HS14040311-01	OCD-6-0414	03 Apr 2014 08:25			21 Apr 2014 00:20	5
HS14040311-03	OCD-7AR-0414	03 Apr 2014 09:00			21 Apr 2014 00:44	5
HS14040311-05	MW-3-0414	03 Apr 2014 09:45			21 Apr 2014 01:08	5
HS14040311-07	Dup-2-0414	03 Apr 2014 00:00			21 Apr 2014 01:32	5
HS14040311-09	MW-6A-0414	03 Apr 2014 10:10			21 Apr 2014 01:56	5
HS14040311-11	MW-15-0414	03 Apr 2014 11:00			21 Apr 2014 02:20	5
HS14040311-13	MW-1R-0414	03 Apr 2014 11:35			21 Apr 2014 02:44	5
HS14040311-15	OCD-1R-0414	03 Apr 2014 12:50			21 Apr 2014 03:09	5
HS14040311-17	OCD-2A-0414	03 Apr 2014 13:25			21 Apr 2014 04:21	5
HS14040311-19	OCD-3-0414	03 Apr 2014 14:05			21 Apr 2014 04:45	5
HS14040311-21	EB-3-0414	03 Apr 2014 16:00			21 Apr 2014 05:09	5
HS14040311-23	MW-25-0414	03 Apr 2014 12:05			21 Apr 2014 05:33	5
HS14040311-25	MW-12-0414	04 Apr 2014 09:40			21 Apr 2014 05:57	5
HS14040311-27	EB-4-0414	04 Apr 2014 10:05			21 Apr 2014 06:22	5
HS14040311-29	MW-13-0414	04 Apr 2014 10:25			21 Apr 2014 06:46	5
HS14040311-31	OCD-4-0414	04 Apr 2014 11:30			21 Apr 2014 07:10	5
HS14040311-33	OCD-5-0414	04 Apr 2014 12:00			21 Apr 2014 07:34	5
HS14040311-35	Dup-3-0414	04 Apr 2014 00:00			21 Apr 2014 07:58	5
HS14040311-37	MW-11A-0414	04 Apr 2014 12:45			21 Apr 2014 09:11	5

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
WorkOrder: HS14040311

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID	R232839	Test Name : CYANIDE BY SW9012B			Matrix: Water	
HS14040311-21	EB-3-0414	03 Apr 2014 16:00			30 Apr 2014 13:04	1
HS14040311-27	EB-4-0414	04 Apr 2014 10:05			30 Apr 2014 13:04	1

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 80589		Instrument: FID-16		Method: SW8015M	
MBLK	Sample ID: LBLKW-140410	Units: mg/L		Analysis Date: 12-Apr-2014 22:34	
Client ID:	Run ID: FID-16_232145	SeqNo: 2798972		PrepDate: 10-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) U 0.050

Surr: 2-Fluorobiphenyl 0.06884 0.0050 0.06061 0 114 60 - 135

LCS	Sample ID: LLCSSW-140410	Units: mg/L		Analysis Date: 12-Apr-2014 23:00	
Client ID:	Run ID: FID-16_232145	SeqNo: 2798973		PrepDate: 10-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) 0.6171 0.050 0.6061 0 102 70 - 130

Surr: 2-Fluorobiphenyl 0.05212 0.0050 0.06061 0 86.0 60 - 135

LCSD	Sample ID: LLCSDW-140410	Units: mg/L		Analysis Date: 12-Apr-2014 23:26	
Client ID:	Run ID: FID-16_232145	SeqNo: 2798974		PrepDate: 10-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) 0.6309 0.050 0.6061 0 104 70 - 130 0.6171 2.2 20

Surr: 2-Fluorobiphenyl 0.05972 0.0050 0.06061 0 98.5 60 - 135 0.05212 13.6 20

The following samples were analyzed in this batch:

HS14040311-01	HS14040311-03	HS14040311-05	HS14040311-07
HS14040311-09	HS14040311-11	HS14040311-13	HS14040311-15
HS14040311-17	HS14040311-19	HS14040311-21	HS14040311-23
HS14040311-25	HS14040311-27	HS14040311-29	HS14040311-31
HS14040311-33	HS14040311-35	HS14040311-37	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231626		Instrument: FID-9		Method: SW8015	
MBLK	Sample ID: GBLKW1-140410	Units: mg/L		Analysis Date: 10-Apr-2014 13:59	
Client ID:	Run ID: FID-9_231626	SeqNo: 2785235		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Gasoline Range Organics U 0.0500

Surr: 4-Bromofluorobenzene 0.0994 0.00500 0.1 0 99.4 70 - 130

LCS	Sample ID: GLCSW1-140410	Units: mg/L		Analysis Date: 10-Apr-2014 13:23	
Client ID:	Run ID: FID-9_231626	SeqNo: 2785234		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Gasoline Range Organics 0.8687 0.0500 1 0 86.9 70 - 130

Surr: 4-Bromofluorobenzene 0.1011 0.00500 0.1 0 101 70 - 130

MS	Sample ID: HS14040311-01MS	Units: mg/L		Analysis Date: 10-Apr-2014 14:35	
Client ID: OCD-6-0414	Run ID: FID-9_231626	SeqNo: 2785237		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Gasoline Range Organics 1.155 0.0500 1 0.2973 85.8 70 - 130

Surr: 4-Bromofluorobenzene 0.09968 0.00500 0.1 0 99.7 70 - 130

MSD	Sample ID: HS14040311-01MSD	Units: mg/L		Analysis Date: 10-Apr-2014 14:53	
Client ID: OCD-6-0414	Run ID: FID-9_231626	SeqNo: 2785238		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Gasoline Range Organics 1.157 0.0500 1 0.2973 85.9 70 - 130 1.155 0.14 30

Surr: 4-Bromofluorobenzene 0.099 0.00500 0.1 0 99.0 70 - 130 0.09968 0.685 30

The following samples were analyzed in this batch:

HS14040311-01	HS14040311-03	HS14040311-05	HS14040311-07
HS14040311-09	HS14040311-11	HS14040311-13	HS14040311-15
HS14040311-17	HS14040311-19	HS14040311-21	HS14040311-23
HS14040311-27	HS14040311-31	HS14040311-33	HS14040311-35
HS14040311-37			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 80980		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW2-042114	Units: mg/L		Analysis Date: 22-Apr-2014 00:45	
Client ID:	Run ID: ICP7500_232249	SeqNo: 2802772		PrepDate: 21-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.00500			
Barium	0.001666	0.00500			J
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Nickel	U	0.00500			
Selenium	U	0.00500			
Sodium	0.03	0.200			J
Vanadium	U	0.00500			

MBLK	Sample ID: MBLKW2-042114	Units: mg/L		Analysis Date: 22-Apr-2014 15:58	
Client ID:	Run ID: ICP7500_232335	SeqNo: 2804936		PrepDate: 21-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	U	0.500			
Potassium	U	0.200			

LCS	Sample ID: MLCSW2-042114	Units: mg/L		Analysis Date: 22-Apr-2014 00:50	
Client ID:	Run ID: ICP7500_232249	SeqNo: 2802773		PrepDate: 21-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.05455	0.00500	0.05	0 109	80 - 120
Barium	0.05767	0.00500	0.05	0 115	80 - 120
Chromium	0.05371	0.00500	0.05	0 107	80 - 120
Iron	5.283	0.200	5	0 106	80 - 120
Lead	0.05194	0.00500	0.05	0 104	80 - 120
Manganese	0.05291	0.00500	0.05	0 106	80 - 120
Nickel	0.05321	0.00500	0.05	0 106	80 - 120
Selenium	0.05547	0.00500	0.05	0 111	80 - 120
Sodium	5.338	0.200	5	0 107	80 - 120
Vanadium	0.0541	0.00500	0.05	0 108	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 80980		Instrument: ICP7500		Method: SW6020	
LCS	Sample ID: MLCSW2-042114	Units: mg/L		Analysis Date: 22-Apr-2014 16:03	
Client ID:	Run ID: ICP7500_232335	SeqNo: 2804937		PrepDate: 21-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	5.133	0.500	5	0 103	80 - 120
Potassium	5.114	0.200	5	0 102	80 - 120

MS	Sample ID: HS14040311-01MS	Units: mg/L		Analysis Date: 23-Apr-2014 08:26	
Client ID: OCD-6-0414	Run ID: ICP7500_232335	SeqNo: 2805681		PrepDate: 21-Apr-2014	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.069	0.0250	0.05	0.01596 106	80 - 120
Barium	0.0745	0.0250	0.05	0.0191 111	80 - 120
Calcium	800.5	2.50	5	733 1350	80 - 120 SO
Chromium	0.0531	0.0250	0.05	0.00145 103	80 - 120
Iron	7.925	1.00	5	2.56 107	80 - 120
Lead	0.05075	0.0250	0.05	0.001193 99.1	80 - 120
Manganese	2.092	0.0250	0.05	1.9 383	80 - 120 SO
Nickel	0.05635	0.0250	0.05	0.00641 99.9	80 - 120
Potassium	19.44	1.00	5	13.38 121	80 - 120 S
Selenium	0.0565	0.0250	0.05	-0.00134 116	80 - 120
Sodium	U	1.00	5	0 0	80 - 120 S
Vanadium	0.05555	0.0250	0.05	0.00226 107	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 80980		Instrument: ICP7500		Method: SW6020					
MSD		Sample ID: HS14040311-01MSD		Units: mg/L		Analysis Date: 23-Apr-2014 08:31			
Client ID: OCD-6-0414		Run ID: ICP7500_232335		SeqNo: 2805682		PrepDate: 21-Apr-2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.07435	0.0250	0.05	0.01596	117	80 - 120	0.069	7.46	15
Barium	0.0758	0.0250	0.05	0.0191	113	80 - 120	0.0745	1.73	15
Calcium	840.5	2.50	5	733	2150	80 - 120	800.5	4.88	15 SO
Chromium	0.05495	0.0250	0.05	0.00145	107	80 - 120	0.0531	3.42	15
Iron	8.215	1.00	5	2.56	113	80 - 120	7.925	3.59	15
Lead	0.0522	0.0250	0.05	0.001193	102	80 - 120	0.05075	2.82	15
Manganese	2.171	0.0250	0.05	1.9	541	80 - 120	2.092	3.71	15 SO
Nickel	0.05965	0.0250	0.05	0.00641	106	80 - 120	0.05635	5.69	15
Potassium	20.14	1.00	5	13.38	135	80 - 120	19.44	3.49	15 S
Selenium	0.0538	0.0250	0.05	-0.00134	110	80 - 120	0.0565	4.9	15
Sodium	U	1.00	5	0	0	80 - 120	0	0	15 S
Vanadium	0.05775	0.0250	0.05	0.00226	111	80 - 120	0.05555	3.88	15

DUP		Sample ID: HS14040311-01DUP		Units: mg/L		Analysis Date: 23-Apr-2014 08:06			
Client ID: OCD-6-0414		Run ID: ICP7500_232335		SeqNo: 2805677		PrepDate: 21-Apr-2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.0174	0.0250		0.01596			0	25	J
Barium	0.01954	0.0250		0.0191			0	25	J
Chromium	U	0.0250		0.00145			0	25	
Iron	2.73	1.00		2.56			6.43	25	
Lead	U	0.0250		0.001193			0	25	
Manganese	2.052	0.0250		1.9			7.69	25	
Nickel	0.00651	0.0250		0.00641			0	25	J
Potassium	14.16	1.00		13.38			5.7	25	
Selenium	U	0.0250		-0.00134			0	25	
Vanadium	U	0.0250		0.00226			0	25	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 80980		Instrument: ICP7500		Method: SW6020					
DUP		Sample ID: HS14040311-01DUP		Units: mg/L		Analysis Date: 22-Apr-2014 16:13			
Client ID: OCD-6-0414	Run ID: ICP7500_232335		SeqNo: 2804939		PrepDate: 21-Apr-2014		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	739.4	50.0					806.4	8.67	25
Manganese	1.973	0.500					2.149	8.54	25
Sodium	2935	20.0					3125	6.27	25

PDS		Sample ID: HS14040311-01BS		Units: mg/L		Analysis Date: 23-Apr-2014 08:51			
Client ID: OCD-6-0414	Run ID: ICP7500_232335		SeqNo: 2805684		PrepDate:		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.5675	0.0250	0.5	0.01596	110	75 - 125			
Barium	0.5235	0.0250	0.5	0.0191	101	75 - 125			
Chromium	0.5315	0.0250	0.5	0.00145	106	75 - 125			
Iron	53.75	1.00	50	2.56	102	75 - 125			
Lead	0.5045	0.0250	0.5	0.001193	101	75 - 125			
Nickel	0.5055	0.0250	0.5	0.00641	99.8	75 - 125			
Potassium	66.6	1.00	50	13.38	106	75 - 125			
Selenium	0.5505	0.0250	0.5	-0.00134	110	75 - 125			
Vanadium	0.5505	0.0250	0.5	0.00226	110	75 - 125			

PDS		Sample ID: HS14040311-01BS		Units: mg/L		Analysis Date: 22-Apr-2014 16:23			
Client ID: OCD-6-0414	Run ID: ICP7500_232335		SeqNo: 2804941		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	1710	50.0	1000	806.4	90.4	75 - 125			
Manganese	11.92	0.500	10	2.149	97.7	75 - 125			
Sodium	3888	20.0	1000	3125	76.3	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 80980		Instrument: ICP7500		Method: SW6020	
SD		Sample ID: HS14040311-01 DIL SX		Units: mg/L	
Client ID: OCD-6-0414		Run ID: ICP7500_232335		Analysis Date: 23-Apr-2014 08:11	
		SeqNo: 2805678		PrepDate: DF: 25	
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.125			0.01596 0 10
Barium	U	0.125			0.0191 0 10
Chromium	U	0.125			0.00145 0 10
Iron	2.376	5.00			2.56 0 10 J
Lead	U	0.125			0.001193 0 10
Nickel	U	0.125			0.00641 0 10
Potassium	14.44	5.00			13.38 7.9 10
Selenium	U	0.125			-0.00134 0 10
Vanadium	U	0.125			0.00226 0 10

SD		Sample ID: HS14040311-01 DIL SX		Units: mg/L	
Client ID: OCD-6-0414		Run ID: ICP7500_232335		Analysis Date: 22-Apr-2014 16:18	
		SeqNo: 2804940		PrepDate: DF: 500	
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	841.5	250			806.4 4.35 10
Manganese	2.133	2.50			2.149 0 10 J
Sodium	3319	100			3125 6.21 10

The following samples were analyzed in this batch:					
HS14040311-01	HS14040311-03	HS14040311-05	HS14040311-07		
HS14040311-09	HS14040311-11	HS14040311-13	HS14040311-15		
HS14040311-17	HS14040311-19	HS14040311-21			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 81025		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW3-042214	Units: mg/L		Analysis Date: 24-Apr-2014 03:00	
Client ID:	Run ID: ICP7500_232412	SeqNo: 2808146		PrepDate: 22-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.00500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Selenium	U	0.00500			

MBLK	Sample ID: MBLKW3-042214	Units: mg/L		Analysis Date: 25-Apr-2014 00:50	
Client ID:	Run ID: ICP7500_232503	SeqNo: 2809252		PrepDate: 22-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Barium	U	0.00500			

LCS	Sample ID: MLCSW3-042214	Units: mg/L		Analysis Date: 24-Apr-2014 03:05	
Client ID:	Run ID: ICP7500_232412	SeqNo: 2808147		PrepDate: 22-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.05263	0.00500	0.05	0 105	80 - 120
Chromium	0.05147	0.00500	0.05	0 103	80 - 120
Iron	5.194	0.200	5	0 104	80 - 120
Lead	0.0515	0.00500	0.05	0 103	80 - 120
Manganese	0.05269	0.00500	0.05	0 105	80 - 120
Selenium	0.05651	0.00500	0.05	0 113	80 - 120

LCS	Sample ID: MLCSW3-042214	Units: mg/L		Analysis Date: 25-Apr-2014 00:55	
Client ID:	Run ID: ICP7500_232503	SeqNo: 2809253		PrepDate: 22-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Barium	0.05619	0.00500	0.05	0 112	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 81025		Instrument: ICP7500		Method: SW6020						
MS		Sample ID: HS14040311-02MS		Units: mg/L		Analysis Date: 25-Apr-2014 01:35				
Client ID: OCD-6-0414-D		Run ID: ICP7500_232503		SeqNo: 2809261		PrepDate: 22-Apr-2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.07445	0.0250	0.05	0.0161	117	75 - 125				
Barium	0.07495	0.0250	0.05	0.01944	111	75 - 125				
Chromium	0.0508	0.0250	0.05	-0.00305	108	75 - 125				
Iron	7.26	1.00	5	1.752	110	75 - 125				
Lead	0.0515	0.0250	0.05	-0.0001074	103	75 - 125				
Manganese	2.244	0.0250	0.05	2.197	95.0	75 - 125				O
Selenium	0.05385	0.0250	0.05	-0.003206	114	75 - 125				

MSD		Sample ID: HS14040311-02MSD		Units: mg/L		Analysis Date: 25-Apr-2014 01:40				
Client ID: OCD-6-0414-D		Run ID: ICP7500_232503		SeqNo: 2809262		PrepDate: 22-Apr-2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.07095	0.0250	0.05	0.0161	110	75 - 125	0.07445	4.81	25	
Barium	0.0718	0.0250	0.05	0.01944	105	75 - 125	0.07495	4.29	25	
Chromium	0.05055	0.0250	0.05	-0.00305	107	75 - 125	0.0508	0.493	25	
Iron	7.25	1.00	5	1.752	110	75 - 125	7.26	0.138	25	
Lead	0.05165	0.0250	0.05	-0.0001074	104	75 - 125	0.0515	0.291	25	
Manganese	2.246	0.0250	0.05	2.197	98.0	75 - 125	2.244	0.0668	25	O
Selenium	0.05965	0.0250	0.05	-0.003206	126	75 - 125	0.05385	10.2	25	S

DUP		Sample ID: HS14040311-02DUP		Units: mg/L		Analysis Date: 25-Apr-2014 01:25				
Client ID: OCD-6-0414-D		Run ID: ICP7500_232503		SeqNo: 2809259		PrepDate: 22-Apr-2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.01678	0.0250					0.0161	0	25	J
Barium	0.0198	0.0250					0.01944	0	25	J
Chromium	U	0.0250					-0.00305	0	25	
Iron	1.723	1.00					1.752	1.64	25	
Lead	U	0.0250					-0.0001074	0	25	
Manganese	2.212	0.0250					2.197	0.68	25	
Selenium	U	0.0250					-0.003206	0	25	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 81025		Instrument: ICP7500		Method: SW6020	
PDS		Sample ID: HS14040311-02BS	Units: mg/L	Analysis Date: 25-Apr-2014 01:44	
Client ID: OCD-6-0414-D		Run ID: ICP7500_232503	SeqNo: 2809263	PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.5655	0.0250	0.5	0.0161 110	75 - 125
Barium	0.516	0.0250	0.5	0.01944 99.3	75 - 125
Chromium	0.526	0.0250	0.5	0 105	75 - 125
Iron	53.1	1.00	50	1.752 103	75 - 125
Lead	0.4934	0.0250	0.5	0 98.7	75 - 125
Manganese	2.656	0.0250	0.5	2.197 91.9	75 - 125 O
Selenium	0.548	0.0250	0.5	0 110	75 - 125

SD		Sample ID: HS14040311-02 DIL SX	Units: mg/L	Analysis Date: 25-Apr-2014 01:30	
Client ID: OCD-6-0414-D		Run ID: ICP7500_232503	SeqNo: 2809260	PrepDate:	DF: 25
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.125			0.0161 0 10
Barium	U	0.125			0.01944 0 10
Chromium	U	0.125			0 0 10
Iron	U	5.00			1.752 0 10
Lead	U	0.125			0 0 10
Manganese	2.198	0.125			2.197 0.0569 10
Selenium	U	0.125			0 0 10

The following samples were analyzed in this batch:				
HS14040311-02	HS14040311-04	HS14040311-06	HS14040311-08	
HS14040311-10	HS14040311-12	HS14040311-14	HS14040311-16	
HS14040311-18	HS14040311-20	HS14040311-22	HS14040311-24	
HS14040311-26	HS14040311-28	HS14040311-30	HS14040311-32	
HS14040311-34	HS14040311-36	HS14040311-38		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 81263		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW1-042814	Units: mg/L		Analysis Date: 30-Apr-2014 22:22	
Client ID:	Run ID: ICP7500_232863	SeqNo: 2817092		PrepDate: 28-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	U	0.00500			
Barium	U	0.00500			
Calcium	U	0.500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Nickel	U	0.00500			
Selenium	U	0.00500			
Sodium	U	0.200			
Vanadium	U	0.00500			

LCS	Sample ID: MLCSW1-042814	Units: mg/L		Analysis Date: 30-Apr-2014 22:27	
Client ID:	Run ID: ICP7500_232863	SeqNo: 2817093		PrepDate: 28-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.05527	0.00500	0.05	0 111	80 - 120
Barium	0.05477	0.00500	0.05	0 110	80 - 120
Calcium	5.562	0.500	5	0 111	80 - 120
Chromium	0.0537	0.00500	0.05	0 107	80 - 120
Iron	5.497	0.200	5	0 110	80 - 120
Lead	0.05229	0.00500	0.05	0 105	80 - 120
Manganese	0.05553	0.00500	0.05	0 111	80 - 120
Nickel	0.05427	0.00500	0.05	0 109	80 - 120
Selenium	0.0548	0.00500	0.05	0 110	80 - 120
Sodium	5.319	0.200	5	0 106	80 - 120
Vanadium	0.05377	0.00500	0.05	0 108	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 81263		Instrument: ICP7500		Method: SW6020						
MS		Sample ID: HS14040530-01MS		Units: mg/L		Analysis Date: 30-Apr-2014 23:21				
Client ID:		Run ID: ICP7500_232863		SeqNo: 2817104		PrepDate: 28-Apr-2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.06293	0.00500	0.05	0.001017	124	80 - 120				S
Barium	0.08621	0.00500	0.05	0.02959	113	80 - 120				
Calcium	529	0.500	5	526.6	48.0	80 - 120				SEO
Chromium	0.05619	0.00500	0.05	-0.000324	113	80 - 120				
Iron	5.521	0.200	5	-0.01073	111	80 - 120				
Lead	0.05355	0.00500	0.05	-0.0002464	108	80 - 120				
Manganese	2.308	0.00500	0.05	2.207	202	80 - 120				SEO
Nickel	0.212	0.00500	0.05	0.1548	114	80 - 120				
Selenium	0.07624	0.00500	0.05	0.004714	143	80 - 120				S
Sodium	511.8	0.200	5	513.4	-32.0	80 - 120				SEO
Vanadium	0.05914	0.00500	0.05	0.00009195	118	80 - 120				

MSD		Sample ID: HS14040530-01MSD		Units: mg/L		Analysis Date: 30-Apr-2014 23:26				
Client ID:		Run ID: ICP7500_232863		SeqNo: 2817105		PrepDate: 28-Apr-2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05691	0.00500	0.05	0.001017	112	80 - 120	0.06293	10	15	
Barium	0.08193	0.00500	0.05	0.02959	105	80 - 120	0.08621	5.09	15	
Calcium	510.8	0.500	5	526.6	-316	80 - 120	529	3.5	15	SEO
Chromium	0.05181	0.00500	0.05	-0.000324	104	80 - 120	0.05619	8.11	15	
Iron	5.182	0.200	5	-0.01073	104	80 - 120	5.521	6.33	15	
Lead	0.0506	0.00500	0.05	-0.0002464	102	80 - 120	0.05355	5.66	15	
Manganese	2.211	0.00500	0.05	2.207	8.00	80 - 120	2.308	4.29	15	SEO
Nickel	0.2012	0.00500	0.05	0.1548	92.8	80 - 120	0.212	5.23	15	
Selenium	0.0729	0.00500	0.05	0.004714	136	80 - 120	0.07624	4.48	15	S
Sodium	489.6	0.200	5	513.4	-476	80 - 120	511.8	4.43	15	SEO
Vanadium	0.05459	0.00500	0.05	0.00009195	109	80 - 120	0.05914	8	15	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 81263		Instrument: ICP7500		Method: SW6020	
DUP	Sample ID: HS14040530-01DUP	Units: mg/L		Analysis Date: 30-Apr-2014 23:07	
Client ID:	Run ID: ICP7500_232863	SeqNo: 2817101		PrepDate: 28-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	0.001038	0.00500			0.001017 0 25 J
Barium	0.02996	0.00500			0.02959 1.24 25
Chromium	U	0.00500			-0.000324 0 25
Iron	U	0.200			-0.01073 0 25
Lead	U	0.00500			-0.0002464 0 25
Nickel	0.1532	0.00500			0.1548 1.04 25
Selenium	0.005522	0.00500			0.004714 15.8 25
Vanadium	U	0.00500			0.00009195 0 25

DUP	Sample ID: HS14040530-01DUP	Units: mg/L		Analysis Date: 30-Apr-2014 22:37	
Client ID:	Run ID: ICP7500_232863	SeqNo: 2817095		PrepDate: 28-Apr-2014	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	476	5.00			526.6 10.1 25
Manganese	2.029	0.0500			2.207 8.4 25
Sodium	475.4	2.00			513.4 7.69 25

PDS	Sample ID: HS14040530-01BS	Units: mg/L		Analysis Date: 30-Apr-2014 23:36	
Client ID:	Run ID: ICP7500_232863	SeqNo: 2817107		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.1143	0.00500	0.1	0.001017 113	75 - 125
Barium	0.1351	0.00500	0.1	0.02959 106	75 - 125
Chromium	0.1035	0.00500	0.1	-0.000324 104	75 - 125
Iron	10.36	0.200	10	-0.01073 104	75 - 125
Lead	0.1036	0.00500	0.1	-0.0002464 104	75 - 125
Nickel	0.2498	0.00500	0.1	0.1548 95.0	75 - 125
Selenium	0.1338	0.00500	0.1	0.004714 129	75 - 125 S
Vanadium	0.1081	0.00500	0.1	0.00009195 108	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 81263		Instrument: ICP7500		Method: SW6020	
PDS	Sample ID: HS14040530-01BS	Units: mg/L		Analysis Date: 30-Apr-2014 22:47	
Client ID:	Run ID: ICP7500_232863	SeqNo: 2817097		PrepDate:	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	583.6	5.00	100	526.6 57.0	75 - 125 SO
Manganese	3.077	0.0500	1	2.207 87.0	75 - 125
Sodium	566.2	2.00	100	513.4 52.8	75 - 125 SO

SD	Sample ID: HS14040530-01 DIL SX	Units: mg/L		Analysis Date: 30-Apr-2014 23:16	
Client ID:	Run ID: ICP7500_232863	SeqNo: 2817103		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.0250			0.001017 0 10
Barium	0.02792	0.0250			0.02959 5.64 10
Chromium	U	0.0250			-0.000324 0 10
Iron	U	1.00			-0.01073 0 10
Lead	U	0.0250			-0.0002464 0 10
Nickel	0.1486	0.0250			0.1548 4.01 10
Selenium	U	0.0250			0.004714 0 10
Vanadium	U	0.0250			0.00009195 0 10

SD	Sample ID: HS14040530-01 DIL SX	Units: mg/L		Analysis Date: 30-Apr-2014 22:42	
Client ID:	Run ID: ICP7500_232863	SeqNo: 2817096		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	475.4	25.0			526.6 9.73 10
Manganese	2.02	0.250			2.207 8.47 10
Sodium	465.6	10.0			513.4 9.32 10

The following samples were analyzed in this batch:

HS14040311-23	HS14040311-25	HS14040311-27	HS14040311-29
HS14040311-31	HS14040311-33	HS14040311-35	HS14040311-37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 81307		Instrument: HG03		Method: SW7470	
MBLK	Sample ID: GBLKW1-042914	Units: mg/L		Analysis Date: 29-Apr-2014 13:18	
Client ID:	Run ID: HG03_232695	SeqNo: 2814353		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200			
LCS	Sample ID: GLCSW1-042914	Units: mg/L		Analysis Date: 29-Apr-2014 13:20	
Client ID:	Run ID: HG03_232695	SeqNo: 2814354		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00496	0.000200	0.005	0 99.2	80 - 120
MS	Sample ID: HS14040801-14MS	Units: mg/L		Analysis Date: 29-Apr-2014 13:25	
Client ID:	Run ID: HG03_232695	SeqNo: 2814357		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00427	0.000200	0.005	-0.000001 85.4	80 - 120
MSD	Sample ID: HS14040801-14MSD	Units: mg/L		Analysis Date: 29-Apr-2014 13:27	
Client ID:	Run ID: HG03_232695	SeqNo: 2814358		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00444	0.000200	0.005	-0.000001 88.8	80 - 120 0.00427 3.9 20
DUP	Sample ID: HS14040801-14DUP	Units: mg/L		Analysis Date: 29-Apr-2014 13:23	
Client ID:	Run ID: HG03_232695	SeqNo: 2814356		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200		-0.000001	0 20
The following samples were analyzed in this batch:					
HS14040311-22 HS14040311-28					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: 81311		Instrument: HG03		Method: SW7470	
MBLK	Sample ID: GBLKW2-042914	Units: mg/L		Analysis Date: 29-Apr-2014 14:32	
Client ID:	Run ID: HG03_232695	SeqNo: 2814398		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200			
LCS	Sample ID: GLCSW2-042914	Units: mg/L		Analysis Date: 29-Apr-2014 14:34	
Client ID:	Run ID: HG03_232695	SeqNo: 2814399		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00492	0.000200	0.005	0 98.4	80 - 124
MS	Sample ID: HS14040557-07MS	Units: mg/L		Analysis Date: 29-Apr-2014 14:39	
Client ID:	Run ID: HG03_232695	SeqNo: 2814402		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00481	0.000200	0.005	-0.000006 96.3	80 - 124
MSD	Sample ID: HS14040557-07MSD	Units: mg/L		Analysis Date: 29-Apr-2014 14:41	
Client ID:	Run ID: HG03_232695	SeqNo: 2814403		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00502	0.000200	0.005	-0.000006 101	80 - 124 0.00481 4.27 20
DUP	Sample ID: HS14040557-07DUP	Units: mg/L		Analysis Date: 29-Apr-2014 14:37	
Client ID:	Run ID: HG03_232695	SeqNo: 2814401		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200		-0.000006	0 20
The following samples were analyzed in this batch:					
HS14040311-21 HS14040311-27					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231740		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140411	Units: ug/L		Analysis Date: 11-Apr-2014 14:56					
Client ID:	Run ID: VOA1_231740	SeqNo: 2788862		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231740		Instrument: VOA1		Method: SW8260	
MBLK	Sample ID: VBLKW-140411	Units: ug/L		Analysis Date: 11-Apr-2014 14:56	
Client ID:	Run ID: VOA1_231740	SeqNo: 2788862		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
n-Butylbenzene	U	5.0			
n-Propylbenzene	U	5.0			
o-Xylene	U	5.0			
sec-Butylbenzene	U	5.0			
Styrene	U	5.0			
Tetrachloroethene	U	5.0			
Toluene	U	5.0			
trans-1,2-Dichloroethene	U	5.0			
trans-1,3-Dichloropropene	U	5.0			
Trichloroethene	U	5.0			
Vinyl chloride	U	2.0			
Xylenes, Total	U	15			
Surr: 1,2-Dichloroethane-d4	49.71	5.0	50	0 99.4	70 - 125
Surr: 4-Bromofluorobenzene	50.89	5.0	50	0 102	72 - 125
Surr: Dibromofluoromethane	49.5	5.0	50	0 99.0	71 - 125
Surr: Toluene-d8	51.45	5.0	50	0 103	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231740		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140411		Units: ug/L	
Client ID:		Run ID: VOA1_231740		SeqNo: 2788867	
Analyte		Result		Analysis Date: 11-Apr-2014 17:01	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
1,1,1-Trichloroethane	46.78	5.0	50	0 93.6	80 - 120
1,1,2,2-Tetrachloroethane	48.69	5.0	50	0 97.4	72 - 120
1,1,2-Trichloroethane	46.37	5.0	50	0 92.7	80 - 120
1,1-Dichloroethane	46.3	5.0	50	0 92.6	76 - 120
1,1-Dichloroethene	47.78	5.0	50	0 95.6	73 - 124
1,2,4-Trimethylbenzene	50.44	5.0	50	0 101	68 - 123
1,2-Dibromoethane	49.59	5.0	50	0 99.2	80 - 120
1,2-Dichloroethane	46.82	5.0	50	0 93.6	78 - 120
1,2-Dichloropropane	49.05	5.0	50	0 98.1	80 - 120
1,3,5-Trimethylbenzene	51.08	5.0	50	0 102	80 - 120
2-Butanone	102.7	10	100	0 103	58 - 132
2-Hexanone	108.2	10	100	0 108	61 - 130
4-Isopropyltoluene	50.12	5.0	50	0 100	79 - 120
4-Methyl-2-pentanone	109.4	10	100	0 109	65 - 127
Acetone	106.1	10	100	0 106	59 - 137
Benzene	48.21	5.0	50	0 96.4	73 - 121
Bromodichloromethane	50.31	5.0	50	0 101	75 - 125
Bromoform	50.86	5.0	50	0 102	70 - 130
Bromomethane	54.36	5.0	50	0 109	60 - 145
Carbon disulfide	99	10	100	0 99.0	68 - 141
Carbon tetrachloride	46.77	5.0	50	0 93.5	75 - 125
Chlorobenzene	48.71	5.0	50	0 97.4	80 - 120
Chloroethane	52.62	5.0	50	0 105	70 - 130
Chloroform	48.09	5.0	50	0 96.2	70 - 130
Chloromethane	46.93	5.0	50	0 93.9	67 - 123
cis-1,2-Dichloroethene	48.38	5.0	50	0 96.8	78 - 120
cis-1,3-Dichloropropene	55.82	5.0	50	0 112	80 - 120
Dibromochloromethane	50.48	5.0	50	0 101	80 - 120
Ethylbenzene	48.14	5.0	50	0 96.3	80 - 120
Isopropylbenzene	50.37	5.0	50	0 101	75 - 130
m,p-Xylene	99.6	10	100	0 99.6	78 - 121
Methyl tert-butyl ether	38.05	5.0	50	0 76.1	70 - 125
Methylene chloride	54.03	10	50	0 108	65 - 133
Naphthalene	56.18	5.0	50	0 112	65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231740		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140411		Units: ug/L	
Client ID:		Run ID: VOA1_231740		SeqNo: 2788867	
Analyte		Result		Analysis Date: 11-Apr-2014 17:01	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
n-Butylbenzene		53.08		77 - 120	
n-Propylbenzene		51.52		78 - 120	
o-Xylene		51.35		80 - 120	
sec-Butylbenzene		54.62		78 - 120	
Styrene		52.2		80 - 120	
Tetrachloroethene		46.16		79 - 120	
Toluene		49.17		80 - 120	
trans-1,2-Dichloroethene		47.08		78 - 120	
trans-1,3-Dichloropropene		58.49		80 - 120	
Trichloroethene		47.82		80 - 120	
Vinyl chloride		48.78		70 - 127	
Xylenes, Total		151		80 - 120	
Surr: 1,2-Dichloroethane-d4		48.59		70 - 125	
Surr: 4-Bromofluorobenzene		49.36		72 - 125	
Surr: Dibromofluoromethane		48.45		71 - 125	
Surr: Toluene-d8		49.92		75 - 125	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231740		Instrument: VOA1		Method: SW8260					
MS		Sample ID: HS14040420-01MS		Units: ug/L		Analysis Date: 11-Apr-2014 16:11			
Client ID:		Run ID: VOA1_231740		SeqNo: 2788865		PrepDate:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	4398	500	5000	0	88.0	80 - 120			
1,1,2,2-Tetrachloroethane	4741	500	5000	0	94.8	72 - 120			
1,1,2-Trichloroethane	4833	500	5000	0	96.7	80 - 120			
1,1-Dichloroethane	4223	500	5000	0	84.5	76 - 120			
1,1-Dichloroethene	4448	500	5000	0	89.0	73 - 124			
1,2,4-Trimethylbenzene	4910	500	5000	0	98.2	68 - 123			
1,2-Dibromoethane	4830	500	5000	0	96.6	80 - 120			
1,2-Dichloroethane	4692	500	5000	0	93.8	78 - 120			
1,2-Dichloropropane	4538	500	5000	0	90.8	80 - 120			
1,3,5-Trimethylbenzene	4733	500	5000	0	94.7	80 - 120			
2-Butanone	9711	1000	10000	0	97.1	58 - 132			
2-Hexanone	10750	1000	10000	0	107	61 - 130			
4-Isopropyltoluene	4680	500	5000	0	93.6	79 - 120			
4-Methyl-2-pentanone	10680	1000	10000	0	107	65 - 127			
Acetone	9814	1000	10000	0	98.1	59 - 137			
Benzene	4646	500	5000	0	92.9	73 - 121			
Bromodichloromethane	4902	500	5000	94.48	96.2	75 - 125			
Bromoform	5251	500	5000	0	105	70 - 130			
Bromomethane	5109	500	5000	0	102	60 - 145			
Carbon disulfide	8953	1000	10000	0	89.5	68 - 141			
Carbon tetrachloride	4650	500	5000	0	93.0	75 - 125			
Chlorobenzene	4909	500	5000	219	93.8	80 - 120			
Chloroethane	4664	500	5000	0	93.3	70 - 130			
Chloroform	7385	500	5000	3064	86.4	70 - 130			
Chloromethane	4123	500	5000	0	82.5	67 - 123			
cis-1,2-Dichloroethene	4493	500	5000	0	89.9	78 - 120			
cis-1,3-Dichloropropene	5143	500	5000	0	103	80 - 120			
Dibromochloromethane	5159	500	5000	0	103	80 - 120			
Ethylbenzene	4915	500	5000	0	98.3	80 - 120			
Isopropylbenzene	4813	500	5000	0	96.3	75 - 130			
m,p-Xylene	9475	1000	10000	0	94.8	78 - 121			
Methyl tert-butyl ether	2840	500	5000	0	56.8	70 - 125			S
Methylene chloride	5303	1000	5000	0	106	65 - 133			
Naphthalene	5337	500	5000	0	107	65 - 135			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231740		Instrument: VOA1		Method: SW8260						
MS		Sample ID: HS14040420-01MS		Units: ug/L		Analysis Date: 11-Apr-2014 16:11				
Client ID:		Run ID: VOA1_231740		SeqNo: 2788865		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	4889	500	5000	0	97.8	77 - 120				
n-Propylbenzene	4939	500	5000	0	98.8	78 - 120				
o-Xylene	5194	500	5000	0	104	80 - 120				
sec-Butylbenzene	4972	500	5000	0	99.4	78 - 120				
Styrene	4968	500	5000	0	99.4	80 - 120				
Tetrachloroethene	4454	500	5000	0	89.1	79 - 120				
Toluene	4518	500	5000	0	90.4	80 - 120				
trans-1,2-Dichloroethene	4369	500	5000	0	87.4	78 - 120				
trans-1,3-Dichloropropene	5383	500	5000	0	108	80 - 120				
Trichloroethene	4666	500	5000	0	93.3	80 - 120				
Vinyl chloride	4189	200	5000	0	83.8	70 - 127				
Xylenes, Total	14670	1500	15000	0	97.8	80 - 120				
Surr: 1,2-Dichloroethane-d4	4846	500	5000	0	96.9	70 - 125				
Surr: 4-Bromofluorobenzene	5127	500	5000	0	103	72 - 125				
Surr: Dibromofluoromethane	4952	500	5000	0	99.0	71 - 125				
Surr: Toluene-d8	5137	500	5000	0	103	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231740		Instrument: VOA1		Method: SW8260						
MSD		Sample ID: HS14040420-01MSD		Units: ug/L		Analysis Date: 11-Apr-2014 16:36				
Client ID:		Run ID: VOA1_231740		SeqNo: 2788866		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	4540	500	5000	0	90.8	80 - 120	4398	3.19	20	
1,1,2,2-Tetrachloroethane	4958	500	5000	0	99.2	72 - 120	4741	4.48	20	
1,1,2-Trichloroethane	4779	500	5000	0	95.6	80 - 120	4833	1.13	20	
1,1-Dichloroethane	4432	500	5000	0	88.6	76 - 120	4223	4.83	20	
1,1-Dichloroethene	4439	500	5000	0	88.8	73 - 124	4448	0.203	20	
1,2,4-Trimethylbenzene	5147	500	5000	0	103	68 - 123	4910	4.72	20	
1,2-Dibromoethane	4836	500	5000	0	96.7	80 - 120	4830	0.126	20	
1,2-Dichloroethane	4798	500	5000	0	96.0	78 - 120	4692	2.23	20	
1,2-Dichloropropane	5008	500	5000	0	100	80 - 120	4538	9.84	20	
1,3,5-Trimethylbenzene	5390	500	5000	0	108	80 - 120	4733	13	20	
2-Butanone	10530	1000	10000	0	105	58 - 132	9711	8.14	20	
2-Hexanone	11040	1000	10000	0	110	61 - 130	10750	2.66	20	
4-Isopropyltoluene	4768	500	5000	0	95.4	79 - 120	4680	1.88	20	
4-Methyl-2-pentanone	10830	1000	10000	0	108	65 - 127	10680	1.35	20	
Acetone	11210	1000	10000	0	112	59 - 137	9814	13.3	20	
Benzene	4779	500	5000	0	95.6	73 - 121	4646	2.83	20	
Bromodichloromethane	5213	500	5000	94.48	102	75 - 125	4902	6.15	20	
Bromoform	5221	500	5000	0	104	70 - 130	5251	0.572	20	
Bromomethane	4909	500	5000	0	98.2	60 - 145	5109	3.99	20	
Carbon disulfide	9195	1000	10000	0	91.9	68 - 141	8953	2.67	20	
Carbon tetrachloride	4700	500	5000	0	94.0	75 - 125	4650	1.07	20	
Chlorobenzene	4835	500	5000	219	92.3	80 - 120	4909	1.53	20	
Chloroethane	4998	500	5000	0	100.0	76 - 121	4664	6.92	20	
Chloroform	7582	500	5000	3064	90.4	70 - 130	7385	2.64	20	
Chloromethane	4772	500	5000	0	95.4	67 - 123	4123	14.6	20	
cis-1,2-Dichloroethene	4755	500	5000	0	95.1	78 - 120	4493	5.66	20	
cis-1,3-Dichloropropene	5645	500	5000	0	113	80 - 120	5143	9.31	20	
Dibromochloromethane	4876	500	5000	0	97.5	80 - 120	5159	5.65	20	
Ethylbenzene	4708	500	5000	0	94.2	80 - 120	4915	4.3	20	
Isopropylbenzene	4813	500	5000	0	96.3	75 - 130	4813	0.0107	20	
m,p-Xylene	9484	1000	10000	0	94.8	78 - 121	9475	0.0863	20	
Methyl tert-butyl ether	3423	500	5000	0	68.5	70 - 125	2840	18.6	20	S
Methylene chloride	5393	1000	5000	0	108	65 - 133	5303	1.69	20	
Naphthalene	5689	500	5000	0	114	65 - 135	5337	6.39	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231740		Instrument: VOA1		Method: SW8260						
MSD		Sample ID: HS14040420-01MSD		Units: ug/L		Analysis Date: 11-Apr-2014 16:36				
Client ID:		Run ID: VOA1_231740		SeqNo: 2788866		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	5094	500	5000	0	102	77 - 120	4889	4.12	20	
n-Propylbenzene	5058	500	5000	0	101	78 - 120	4939	2.39	20	
o-Xylene	4902	500	5000	0	98.0	80 - 120	5194	5.78	20	
sec-Butylbenzene	5409	500	5000	0	108	78 - 120	4972	8.42	20	
Styrene	4486	500	5000	0	89.7	80 - 120	4968	10.2	20	
Tetrachloroethene	4327	500	5000	0	86.5	79 - 120	4454	2.89	20	
Toluene	4368	500	5000	0	87.4	80 - 120	4518	3.36	20	
trans-1,2-Dichloroethene	4548	500	5000	0	91.0	78 - 120	4369	4.02	20	
trans-1,3-Dichloropropene	5740	500	5000	0	115	80 - 120	5383	6.43	20	
Trichloroethene	4824	500	5000	0	96.5	80 - 120	4666	3.33	20	
Vinyl chloride	4392	200	5000	0	87.8	70 - 127	4189	4.73	20	
Xylenes, Total	14390	1500	15000	0	95.9	78 - 121	14670	1.95	20	
Surr: 1,2-Dichloroethane-d4	4988	500	5000	0	99.8	70 - 125	4846	2.88	20	
Surr: 4-Bromofluorobenzene	5089	500	5000	0	102	72 - 125	5127	0.755	20	
Surr: Dibromofluoromethane	4998	500	5000	0	100.0	71 - 125	4952	0.92	20	
Surr: Toluene-d8	4916	500	5000	0	98.3	75 - 125	5137	4.4	20	
The following samples were anayzed in this batch:		HS14040311-01		HS14040311-03		HS14040311-05		HS14040311-07		
		HS14040311-09		HS14040311-11		HS14040311-13		HS14040311-15		
		HS14040311-17		HS14040311-19						

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231801		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140412	Units: ug/L		Analysis Date: 12-Apr-2014 14:26					
Client ID:	Run ID: VOA1_231801	SeqNo: 2790479		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231801		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140412	Units: ug/L		Analysis Date: 12-Apr-2014 14:26					
Client ID:	Run ID: VOA1_231801		SeqNo: 2790479		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	U	5.0							
n-Propylbenzene	U	5.0							
o-Xylene	U	5.0							
sec-Butylbenzene	U	5.0							
Styrene	U	5.0							
Tetrachloroethene	U	5.0							
Toluene	U	5.0							
trans-1,2-Dichloroethene	U	5.0							
trans-1,3-Dichloropropene	U	5.0							
Trichloroethene	U	5.0							
Vinyl chloride	U	2.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	48.56	5.0	50	0	97.1	70 - 125			
Surr: 4-Bromofluorobenzene	49.15	5.0	50	0	98.3	72 - 125			
Surr: Dibromofluoromethane	48.37	5.0	50	0	96.7	71 - 125			
Surr: Toluene-d8	47.65	5.0	50	0	95.3	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231801		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140412		Units: ug/L	
Client ID:		Run ID: VOA1_231801		SeqNo: 2790478	
Analyte		Result		Analysis Date: 12-Apr-2014 13:11	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
1,1,1-Trichloroethane		47.1		50 0 94.2 80 - 120	
1,1,2,2-Tetrachloroethane		48.88		50 0 97.8 72 - 120	
1,1,2-Trichloroethane		47.33		50 0 94.7 80 - 120	
1,1-Dichloroethane		44.81		50 0 89.6 76 - 120	
1,1-Dichloroethene		44.34		50 0 88.7 73 - 124	
1,2,4-Trimethylbenzene		52.12		50 0 104 68 - 123	
1,2-Dibromoethane		48.39		50 0 96.8 80 - 120	
1,2-Dichloroethane		45.09		50 0 90.2 78 - 120	
1,2-Dichloropropane		46.17		50 0 92.3 80 - 120	
1,3,5-Trimethylbenzene		51.09		50 0 102 80 - 120	
2-Butanone		101.5		100 0 102 58 - 132	
2-Hexanone		107.7		100 0 108 61 - 130	
4-Isopropyltoluene		49.11		50 0 98.2 79 - 120	
4-Methyl-2-pentanone		109.2		100 0 109 65 - 127	
Acetone		108.8		100 0 109 59 - 137	
Benzene		45.81		50 0 91.6 73 - 121	
Bromodichloromethane		47.54		50 0 95.1 75 - 125	
Bromoform		51.51		50 0 103 70 - 130	
Bromomethane		53.03		50 0 106 60 - 145	
Carbon disulfide		95.26		100 0 95.3 68 - 141	
Carbon tetrachloride		44.61		50 0 89.2 75 - 125	
Chlorobenzene		45.61		50 0 91.2 80 - 120	
Chloroethane		51.83		50 0 104 70 - 130	
Chloroform		45.59		50 0 91.2 70 - 130	
Chloromethane		45.11		50 0 90.2 67 - 123	
cis-1,2-Dichloroethene		46.58		50 0 93.2 78 - 120	
cis-1,3-Dichloropropene		53.19		50 0 106 80 - 120	
Dibromochloromethane		49.6		50 0 99.2 80 - 120	
Ethylbenzene		48.87		50 0 97.7 80 - 120	
Isopropylbenzene		48.12		50 0 96.2 75 - 130	
m,p-Xylene		92.84		100 0 92.8 78 - 121	
Methyl tert-butyl ether		50.7		50 0 101 70 - 125	
Methylene chloride		51.45		50 0 103 65 - 133	
Naphthalene		56.38		50 0 113 65 - 135	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231801		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140412		Units: ug/L	
Client ID:		Run ID: VOA1_231801		SeqNo: 2790478	
Analyte		Result		Analysis Date: 12-Apr-2014 13:11	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
n-Butylbenzene		53.19		77 - 120	
n-Propylbenzene		49.9		78 - 120	
o-Xylene		48.52		80 - 120	
sec-Butylbenzene		52.87		78 - 120	
Styrene		49.89		80 - 120	
Tetrachloroethene		43		79 - 120	
Toluene		46.4		80 - 120	
trans-1,2-Dichloroethene		45.83		78 - 120	
trans-1,3-Dichloropropene		58.05		80 - 120	
Trichloroethene		47.79		80 - 120	
Vinyl chloride		46.53		70 - 127	
Xylenes, Total		141.4		80 - 120	
Surr: 1,2-Dichloroethane-d4		49.9		70 - 125	
Surr: 4-Bromofluorobenzene		48.49		72 - 125	
Surr: Dibromofluoromethane		50.43		71 - 125	
Surr: Toluene-d8		49.97		75 - 125	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231801		Instrument: VOA1		Method: SW8260	
MS		Sample ID: HS14040311-27MS		Units: ug/L	
Client ID: EB-4-0414		Run ID: VOA1_231801		Analysis Date: 12-Apr-2014 16:06	
		SeqNo: 2790482		PrepDate: DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
1,1,1-Trichloroethane	45.52	5.0	50	0 91.0	80 - 120
1,1,2,2-Tetrachloroethane	46.32	5.0	50	0 92.6	72 - 120
1,1,2-Trichloroethane	47.15	5.0	50	0 94.3	80 - 120
1,1-Dichloroethane	43.76	5.0	50	0 87.5	76 - 120
1,1-Dichloroethene	43.73	5.0	50	0 87.5	73 - 124
1,2,4-Trimethylbenzene	47.71	5.0	50	0 95.4	68 - 123
1,2-Dibromoethane	48.01	5.0	50	0 96.0	80 - 120
1,2-Dichloroethane	47.25	5.0	50	0 94.5	78 - 120
1,2-Dichloropropane	48.91	5.0	50	0 97.8	80 - 120
1,3,5-Trimethylbenzene	48.09	5.0	50	0 96.2	80 - 120
2-Butanone	103.2	10	100	0 103	58 - 132
2-Hexanone	106.5	10	100	0 107	61 - 130
4-Isopropyltoluene	46.91	5.0	50	0 93.8	79 - 120
4-Methyl-2-pentanone	109.2	10	100	0 109	65 - 127
Acetone	104.4	10	100	2.498 102	59 - 137
Benzene	46.79	5.0	50	0 93.6	73 - 121
Bromodichloromethane	50.32	5.0	50	0 101	75 - 125
Bromoform	54.26	5.0	50	0 109	70 - 130
Bromomethane	55.24	5.0	50	0 110	60 - 145
Carbon disulfide	91.12	10	100	0 91.1	68 - 141
Carbon tetrachloride	46.45	5.0	50	0 92.9	75 - 125
Chlorobenzene	46.76	5.0	50	0 93.5	80 - 120
Chloroethane	51.17	5.0	50	0 102	70 - 130
Chloroform	45.64	5.0	50	0 91.3	70 - 130
Chloromethane	38.98	5.0	50	0 78.0	67 - 123
cis-1,2-Dichloroethene	45.4	5.0	50	0 90.8	78 - 120
cis-1,3-Dichloropropene	53.54	5.0	50	0 107	80 - 120
Dibromochloromethane	51.66	5.0	50	0 103	80 - 120
Ethylbenzene	48.99	5.0	50	0 98.0	80 - 120
Isopropylbenzene	50.18	5.0	50	0 100	75 - 130
m,p-Xylene	101.1	10	100	0 101	78 - 121
Methyl tert-butyl ether	31.59	5.0	50	0 63.2	70 - 125 S
Methylene chloride	52.74	10	50	0 105	65 - 133
Naphthalene	54.81	5.0	50	0 110	65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231801		Instrument: VOA1		Method: SW8260	
MS		Sample ID: HS14040311-27MS		Units: ug/L	
Client ID: EB-4-0414		Run ID: VOA1_231801		Analysis Date: 12-Apr-2014 16:06	
		SeqNo: 2790482		PrepDate: DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
n-Butylbenzene	49.45	5.0	50	0 98.9	77 - 120
n-Propylbenzene	46.46	5.0	50	0 92.9	78 - 120
o-Xylene	51.41	5.0	50	0 103	80 - 120
sec-Butylbenzene	53.44	5.0	50	0 107	78 - 120
Styrene	52	5.0	50	0 104	80 - 120
Tetrachloroethene	46.61	5.0	50	0 93.2	79 - 120
Toluene	47.52	5.0	50	0 95.0	80 - 120
trans-1,2-Dichloroethene	46.74	5.0	50	0 93.5	78 - 120
trans-1,3-Dichloropropene	56.73	5.0	50	0 113	80 - 120
Trichloroethene	46.79	5.0	50	0 93.6	80 - 120
Vinyl chloride	43.95	2.0	50	0 87.9	70 - 127
Xylenes, Total	152.5	15	150	0 102	80 - 120
Surr: 1,2-Dichloroethane-d4	50.12	5.0	50	0 100	70 - 125
Surr: 4-Bromofluorobenzene	51.29	5.0	50	0 103	72 - 125
Surr: Dibromofluoromethane	50.03	5.0	50	0 100	71 - 125
Surr: Toluene-d8	50.41	5.0	50	0 101	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231801		Instrument: VOA1		Method: SW8260					
MSD		Sample ID: HS14040311-27MSD		Units: ug/L		Analysis Date: 12-Apr-2014 16:31			
Client ID: EB-4-0414		Run ID: VOA1_231801		SeqNo: 2790483		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	47.79	5.0	50	0	95.6	80 - 120	45.52	4.85	20
1,1,2,2-Tetrachloroethane	47.02	5.0	50	0	94.0	72 - 120	46.32	1.5	20
1,1,2-Trichloroethane	48.6	5.0	50	0	97.2	80 - 120	47.15	3.03	20
1,1-Dichloroethane	48.99	5.0	50	0	98.0	76 - 120	43.76	11.3	20
1,1-Dichloroethene	50.44	5.0	50	0	101	73 - 124	43.73	14.2	20
1,2,4-Trimethylbenzene	49.26	5.0	50	0	98.5	68 - 123	47.71	3.21	20
1,2-Dibromoethane	50.1	5.0	50	0	100	80 - 120	48.01	4.26	20
1,2-Dichloroethane	47.3	5.0	50	0	94.6	78 - 120	47.25	0.094	20
1,2-Dichloropropane	48.54	5.0	50	0	97.1	80 - 120	48.91	0.762	20
1,3,5-Trimethylbenzene	49.1	5.0	50	0	98.2	80 - 120	48.09	2.06	20
2-Butanone	77.54	10	100	0	77.5	58 - 132	103.2	28.4	20 R
2-Hexanone	112.2	10	100	0	112	61 - 130	106.5	5.23	20
4-Isopropyltoluene	48.65	5.0	50	0	97.3	79 - 120	46.91	3.64	20
4-Methyl-2-pentanone	111.7	10	100	0	112	65 - 127	109.2	2.34	20
Acetone	122.8	10	100	2.498	120	59 - 137	104.4	16.2	20
Benzene	48.05	5.0	50	0	96.1	73 - 121	46.79	2.68	20
Bromodichloromethane	49.71	5.0	50	0	99.4	75 - 125	50.32	1.23	20
Bromoform	54.09	5.0	50	0	108	70 - 130	54.26	0.301	20
Bromomethane	57.9	5.0	50	0	116	60 - 145	55.24	4.7	20
Carbon disulfide	104.5	10	100	0	105	68 - 141	91.12	13.7	20
Carbon tetrachloride	45.31	5.0	50	0	90.6	75 - 125	46.45	2.49	20
Chlorobenzene	47.01	5.0	50	0	94.0	80 - 120	46.76	0.526	20
Chloroethane	57.19	5.0	50	0	114	76 - 121	51.17	11.1	20
Chloroform	48.92	5.0	50	0	97.8	70 - 130	45.64	6.93	20
Chloromethane	46.81	5.0	50	0	93.6	67 - 123	38.98	18.2	20
cis-1,2-Dichloroethene	29.22	5.0	50	0	58.4	78 - 120	45.4	43.4	20 SR
cis-1,3-Dichloropropene	53.35	5.0	50	0	107	80 - 120	53.54	0.353	20
Dibromochloromethane	51.35	5.0	50	0	103	80 - 120	51.66	0.602	20
Ethylbenzene	50.48	5.0	50	0	101	80 - 120	48.99	3	20
Isopropylbenzene	50.27	5.0	50	0	101	75 - 130	50.18	0.172	20
m,p-Xylene	96.57	10	100	0	96.6	78 - 121	101.1	4.62	20
Methyl tert-butyl ether	39.82	5.0	50	0	79.6	70 - 125	31.59	23	20 R
Methylene chloride	60.72	10	50	0	121	65 - 133	52.74	14.1	20
Naphthalene	57.39	5.0	50	0	115	65 - 135	54.81	4.6	20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231801		Instrument: VOA1		Method: SW8260						
MSD		Sample ID: HS14040311-27MSD		Units: ug/L		Analysis Date: 12-Apr-2014 16:31				
Client ID: EB-4-0414		Run ID: VOA1_231801		SeqNo: 2790483		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	48.86	5.0	50	0	97.7	77 - 120	49.45	1.2	20	
n-Propylbenzene	49.24	5.0	50	0	98.5	78 - 120	46.46	5.82	20	
o-Xylene	51.08	5.0	50	0	102	80 - 120	51.41	0.631	20	
sec-Butylbenzene	52.45	5.0	50	0	105	78 - 120	53.44	1.88	20	
Styrene	50.18	5.0	50	0	100	80 - 120	52	3.55	20	
Tetrachloroethene	46.5	5.0	50	0	93.0	79 - 120	46.61	0.235	20	
Toluene	47.5	5.0	50	0	95.0	80 - 120	47.52	0.0519	20	
trans-1,2-Dichloroethene	50.04	5.0	50	0	100	78 - 120	46.74	6.83	20	
trans-1,3-Dichloropropene	56.66	5.0	50	0	113	80 - 120	56.73	0.123	20	
Trichloroethene	47.26	5.0	50	0	94.5	80 - 120	46.79	0.999	20	
Vinyl chloride	49.73	2.0	50	0	99.5	70 - 127	43.95	12.3	20	
Xylenes, Total	147.7	15	150	0	98.4	78 - 121	152.5	3.26	20	
Surr: 1,2-Dichloroethane-d4	49.46	5.0	50	0	98.9	70 - 125	50.12	1.31	20	
Surr: 4-Bromofluorobenzene	50.41	5.0	50	0	101	72 - 125	51.29	1.72	20	
Surr: Dibromofluoromethane	53.28	5.0	50	0	107	71 - 125	50.03	6.3	20	
Surr: Toluene-d8	47.9	5.0	50	0	95.8	75 - 125	50.41	5.09	20	
The following samples were analyzed in this batch:										
HS14040311-21		HS14040311-23		HS14040311-27		HS14040311-31				
HS14040311-33		HS14040311-35		HS14040311-37		HS14040311-39				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231649		Instrument: Balance1		Method: M2540C	
MBLK	Sample ID: WBLK-040914	Units: mg/L		Analysis Date: 09-Apr-2014 09:55	
Client ID:	Run ID: Balance1_231649	SeqNo: 2786499		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)					
		U	10.0		
LCS	Sample ID: WLCS-040914	Units: mg/L		Analysis Date: 09-Apr-2014 09:55	
Client ID:	Run ID: Balance1_231649	SeqNo: 2786500		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)					
		970	10.0	1000	0 97.0 85 - 115
DUP	Sample ID: HS14040178-05BDUP	Units: mg/L		Analysis Date: 09-Apr-2014 09:55	
Client ID:	Run ID: Balance1_231649	SeqNo: 2786488		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)					
		1460	10.0	1560	6.62 10
DUP	Sample ID: HS14040122-35EDUP	Units: mg/L		Analysis Date: 09-Apr-2014 09:55	
Client ID:	Run ID: Balance1_231649	SeqNo: 2786480		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)					
		5120	10.0	5740	11.4 10 R
The following samples were analyzed in this batch:					
HS14040311-01 HS14040311-03 HS14040311-05 HS14040311-07 HS14040311-09					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231708		Instrument: Balance1		Method: M2540C					
MBLK	Sample ID: WBLK-041014	Units: mg/L		Analysis Date: 10-Apr-2014 09:55					
Client ID:	Run ID: Balance1_231708	SeqNo: 2788263		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0						
LCS	Sample ID: WLCS-041014	Units: mg/L		Analysis Date: 10-Apr-2014 09:55					
Client ID:	Run ID: Balance1_231708	SeqNo: 2788264		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		1012	10.0	1000	0	101	85 - 115		
DUP	Sample ID: HS14040311-19DUP	Units: mg/L		Analysis Date: 10-Apr-2014 09:55					
Client ID: OCD-3-0414	Run ID: Balance1_231708	SeqNo: 2788261		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		5060	10.0			5160	1.96	10	
DUP	Sample ID: HS14040178-06B DUP	Units: mg/L		Analysis Date: 10-Apr-2014 09:55					
Client ID:	Run ID: Balance1_231708	SeqNo: 2788242		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		2120	10.0			2180	2.79	10	
The following samples were analyzed in this batch:				HS14040311-11		HS14040311-13		HS14040311-15	
				HS14040311-19		HS14040311-23		HS14040311-17	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R231727		Instrument: Balance1		Method: M2540C					
MBLK	Sample ID: WBLK-040814	Units: mg/L		Analysis Date: 10-Apr-2014 13:45					
Client ID:	Run ID: Balance1_231727	SeqNo: 2788628		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0						
LCS	Sample ID: WLCS-040814	Units: mg/L		Analysis Date: 10-Apr-2014 13:45					
Client ID:	Run ID: Balance1_231727	SeqNo: 2788629		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		976	10.0	1000	0	97.6	85 - 115		
DUP	Sample ID: HS14040376-01DUP	Units: mg/L		Analysis Date: 10-Apr-2014 13:45					
Client ID:	Run ID: Balance1_231727	SeqNo: 2788627		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		2040	10.0			2020	0.985	10	
DUP	Sample ID: HS14040178-20B DUP	Units: mg/L		Analysis Date: 10-Apr-2014 13:45					
Client ID:	Run ID: Balance1_231727	SeqNo: 2788607		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		1480	10.0			1460	1.36	10	
The following samples were analyzed in this batch:									
		HS14040311-21	HS14040311-25	HS14040311-27	HS14040311-29				
		HS14040311-31	HS14040311-33	HS14040311-35	HS14040311-37				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R232206		Instrument: ICS3K2		Method: E300	
MBLK	Sample ID: WBLKW1	Units: mg/L		Analysis Date: 20-Apr-2014 23:31	
Client ID:	Run ID: ICS3K2_232206	SeqNo: 2800656		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	U	0.200			

LCS	Sample ID: WLCSW1	Units: mg/L		Analysis Date: 20-Apr-2014 23:55	
Client ID:	Run ID: ICS3K2_232206	SeqNo: 2800657		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	8.145	0.200	8	0 102	90 - 110

MS	Sample ID: HS14040311-37MS	Units: mg/L		Analysis Date: 21-Apr-2014 09:35	
Client ID: MW-11A-0414	Run ID: ICS3K2_232206	SeqNo: 2800681		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	19.31	1.00	20	0.488 94.1	80 - 120

MSD	Sample ID: HS14040311-37MSD	Units: mg/L		Analysis Date: 21-Apr-2014 09:59	
Client ID: MW-11A-0414	Run ID: ICS3K2_232206	SeqNo: 2800682		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	18.93	1.00	20	0.488 92.2	80 - 120 19.31 1.98 20

The following samples were analyzed in this batch:					
HS14040311-01	HS14040311-03	HS14040311-05	HS14040311-07		
HS14040311-09	HS14040311-11	HS14040311-13	HS14040311-15		
HS14040311-17	HS14040311-19	HS14040311-21	HS14040311-23		
HS14040311-25	HS14040311-27	HS14040311-29	HS14040311-31		
HS14040311-33	HS14040311-35	HS14040311-37			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R232582		Instrument: ICS2100		Method: E300	
MBLK	Sample ID: WBLKW2	Units: mg/L		Analysis Date: 20-Apr-2014 23:00	
Client ID:	Run ID: ICS2100_232582	SeqNo: 2810027		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	U	0.500			
Fluoride	U	0.100			
Sulfate	U	0.500			

LCS	Sample ID: WLCSW2	Units: mg/L		Analysis Date: 20-Apr-2014 23:57	
Client ID:	Run ID: ICS2100_232582	SeqNo: 2810028		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	20.33	0.500	20	0 102	90 - 110
Fluoride	3.754	0.100	4	0 93.8	90 - 110
Sulfate	20.01	0.500	20	0 100	90 - 110

MS	Sample ID: HS14040676-08MSZ	Units: mg/L		Analysis Date: 21-Apr-2014 15:51	
Client ID:	Run ID: ICS2100_232582	SeqNo: 2810053		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	18.69	0.500	10	5.765 129	80 - 120 S
Fluoride	2.017	0.100	2	0.142 93.8	80 - 120
Sulfate	25.74	0.500	10	13.86 119	80 - 120

MSD	Sample ID: HS14040676-08MSDZ	Units: mg/L		Analysis Date: 21-Apr-2014 16:05	
Client ID:	Run ID: ICS2100_232582	SeqNo: 2810054		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	18.66	0.500	10	5.765 129	80 - 120 18.69 0.182 20 S
Fluoride	2.023	0.100	2	0.142 94.0	80 - 120 2.017 0.297 20
Sulfate	26.28	0.500	10	13.86 124	80 - 120 25.74 2.11 20 S

The following samples were analyzed in this batch:					
HS14040311-01	HS14040311-03	HS14040311-05	HS14040311-07		
HS14040311-09	HS14040311-11	HS14040311-13	HS14040311-15		
HS14040311-17	HS14040311-19	HS14040311-21	HS14040311-23		
HS14040311-25	HS14040311-27	HS14040311-29	HS14040311-31		
HS14040311-33	HS14040311-35	HS14040311-37			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R232619		Instrument: ICS2100		Method: E300	
MBLK	Sample ID: WBLKW1	Units: mg/L		Analysis Date: 24-Apr-2014 19:55	
Client ID:	Run ID: ICS2100_232619	SeqNo: 2811008		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	U	0.500			
Sulfate	U	0.500			

LCS	Sample ID: WLCSW1	Units: mg/L		Analysis Date: 24-Apr-2014 20:10	
Client ID:	Run ID: ICS2100_232619	SeqNo: 2811009		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	20.38	0.500	20	0 102	90 - 110
Sulfate	19.95	0.500	20	0 99.7	90 - 110

MS	Sample ID: HS14040311-37MS	Units: mg/L		Analysis Date: 25-Apr-2014 01:01	
Client ID: MW-11A-0414	Run ID: ICS2100_232619	SeqNo: 2811029		PrepDate:	DF: 500
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	18250	250	5000	12380 117	80 - 120
Sulfate	8880	250	5000	2408 129	80 - 120 S

MSD	Sample ID: HS14040311-37MSD	Units: mg/L		Analysis Date: 25-Apr-2014 01:15	
Client ID: MW-11A-0414	Run ID: ICS2100_232619	SeqNo: 2811030		PrepDate:	DF: 500
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	16430	250	5000	12380 80.9	80 - 120 18250 10.5 20
Sulfate	6977	250	5000	2408 91.4	80 - 120 8880 24 20 R

The following samples were analyzed in this batch:					
HS14040311-01	HS14040311-03	HS14040311-05	HS14040311-07		
HS14040311-09	HS14040311-11	HS14040311-13	HS14040311-15		
HS14040311-17	HS14040311-19	HS14040311-23	HS14040311-25		
HS14040311-29	HS14040311-31	HS14040311-33	HS14040311-35		
HS14040311-37					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R232714		Instrument: ICS3K2		Method: E300	
MBLK	Sample ID: WBLKW1	Units: mg/L		Analysis Date: 20-Apr-2014 23:31	
Client ID:	Run ID: ICS3K2_232714	SeqNo: 2812970		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	U	0.200			

LCS	Sample ID: WLCSW1	Units: mg/L		Analysis Date: 20-Apr-2014 23:55	
Client ID:	Run ID: ICS3K2_232714	SeqNo: 2812971		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	8.145	0.200	8	0 102	90 - 110

MS	Sample ID: HS14040311-37MS	Units: mg/L		Analysis Date: 21-Apr-2014 09:35	
Client ID: MW-11A-0414	Run ID: ICS3K2_232714	SeqNo: 2813006		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	19.31	1.00	20	0.488 94.1	80 - 120

MSD	Sample ID: HS14040311-37MSD	Units: mg/L		Analysis Date: 21-Apr-2014 09:59	
Client ID: MW-11A-0414	Run ID: ICS3K2_232714	SeqNo: 2813007		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	18.93	1.00	20	0.488 92.2	80 - 120 19.31 1.98 20

The following samples were analyzed in this batch:					
HS14040311-01	HS14040311-03	HS14040311-05	HS14040311-07		
HS14040311-09	HS14040311-11	HS14040311-13	HS14040311-15		
HS14040311-17	HS14040311-19	HS14040311-21	HS14040311-23		
HS14040311-25	HS14040311-27	HS14040311-29	HS14040311-31		
HS14040311-33	HS14040311-35	HS14040311-37			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040311
 Project: Artesia Refinery Semi-Annual

QC BATCH REPORT

Batch ID: R232839		Instrument: UV-2450		Method: SW9012	
MBLK	Sample ID: MBLK-232839	Units: mg/L		Analysis Date: 30-Apr-2014 13:04	
Client ID:	Run ID: UV-2450_232839	SeqNo: 2815349		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.009	0.0200			J
LCS	Sample ID: LCS-232839	Units: mg/L		Analysis Date: 30-Apr-2014 13:04	
Client ID:	Run ID: UV-2450_232839	SeqNo: 2815350		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.162	0.0200	0.2	0 81.0 80 - 120	
LCSD	Sample ID: LCSD-232839	Units: mg/L		Analysis Date: 30-Apr-2014 13:04	
Client ID:	Run ID: UV-2450_232839	SeqNo: 2815351		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.185	0.0200	0.2	0 92.5 80 - 120	0.162 13.3 20
MS	Sample ID: HS14040672-05MS	Units: mg/L		Analysis Date: 30-Apr-2014 13:04	
Client ID:	Run ID: UV-2450_232839	SeqNo: 2815353		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.184	0.0200	0.2	0.001 91.5 80 - 120	
The following samples were analyzed in this batch:					
HS14040311-21 HS14040311-27					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
WorkOrder: HS14040311

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	AR - 2014	27-Mar-2015
California	2919	31-Jul-2015
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003403	09-May-2015
Kansas	E-10352 8/15/2013-2014	01-Oct-2014
Kentucky	KY 2014-2015	30-Apr-2015
Louisiana	03087 2014/2015	30-Jun-2015
North Carolina	624 - 2014	31-Dec-2014
North Dakota	R-193 2025	30-Apr-2015
Oklahoma	2014-128	31-Aug-2015
Texas	TX104704231-14-13	30-Apr-2015

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Work Order: HS14040311

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS14040311-01	OCD-6-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-01	OCD-6-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-01	OCD-6-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-01	OCD-6-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-02	OCD-6-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-03	OCD-7AR-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-03	OCD-7AR-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-03	OCD-7AR-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-03	OCD-7AR-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-04	OCD-7AR-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-05	MW-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-05	MW-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-05	MW-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-05	MW-3-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-06	MW-3-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-07	Dup-2-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-07	Dup-2-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-07	Dup-2-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-07	Dup-2-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-08	Dup-2-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-09	MW-6A-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-09	MW-6A-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-09	MW-6A-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-09	MW-6A-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-10	MW-6A-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-11	MW-15-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-11	MW-15-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-11	MW-15-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-11	MW-15-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-12	MW-15-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-13	MW-1R-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-13	MW-1R-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-13	MW-1R-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-13	MW-1R-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-14	MW-1R-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-15	OCD-1R-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-15	OCD-1R-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-15	OCD-1R-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-15	OCD-1R-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-16	OCD-1R-0414-D	Login	08-Apr-14 12:12	DRC	8D

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Work Order: HS14040311

SAMPLE TRACKING

HS14040311-17	OCD-2A-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-17	OCD-2A-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-17	OCD-2A-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-17	OCD-2A-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-18	OCD-2A-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-19	OCD-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-19	OCD-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-19	OCD-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-19	OCD-3-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-20	OCD-3-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-21	EB-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-21	EB-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-21	EB-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-21	EB-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-21	EB-3-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-22	EB-3-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-23	MW-25-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-23	MW-25-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-23	MW-25-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-23	MW-25-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-24	MW-25-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-25	MW-12-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-25	MW-12-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-25	MW-12-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-25	MW-12-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-26	MW-12-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-27	EB-4-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-27	EB-4-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-27	EB-4-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-27	EB-4-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-27	EB-4-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-28	EB-4-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-29	MW-13-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-29	MW-13-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-29	MW-13-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-29	MW-13-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-30	MW-13-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-31	OCD-4-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-31	OCD-4-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-31	OCD-4-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-31	OCD-4-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-32	OCD-4-0414-D	Login	08-Apr-14 12:12	DRC	8D

Client: Navajo Refining Company
Project: Artesia Refinery Semi-Annual
Work Order: HS14040311

SAMPLE TRACKING

HS14040311-33	OCD-5-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-33	OCD-5-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-33	OCD-5-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-33	OCD-5-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-34	OCD-5-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-35	Dup-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-35	Dup-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-35	Dup-3-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-35	Dup-3-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-36	Dup-3-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-37	MW-11A-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-37	MW-11A-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-37	MW-11A-0414	Login	08-Apr-14 12:12	DRC	8D
HS14040311-37	MW-11A-0414	Login	08-Apr-14 12:12	DRC	TPH C2
HS14040311-38	MW-11A-0414-D	Login	08-Apr-14 12:12	DRC	8D
HS14040311-39	TB-032514-40	Login	09-Apr-14 02:42	DRC	VW-1
HS14040311-40	Trip Blank - 032514-33	Login	09-Apr-14 07:22	PMG	VW-3

Sample Receipt Checklist

Client Name: Navajo Refining
Work Order: HS14040311

Date/Time Received: **05-Apr-2014 00:00**
Received by: **DRC**

Checklist completed by: Dana.Capps 8-Apr-2014 Reviewed by: Sonia West 11-Apr-2014
eSignature Date eSignature Date

Matrices: **water**Carrier name: **FedEX Express Saver**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

0.7/0.7 0.7/0.7 0.8/0.8 0.4/0.4 2.7/2.7 0.3/0.3 IR3

Cooler(s)/Kit(s):

4023 4255 3182 5024 4324 5632

Date/Time sample(s) sent to storage:

04/08/2014

Water - VOA vials have zero headspace?

Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☒ No ☐ N/A ☐

pH adjusted?

Yes ☐ No ☒ N/A ☐

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By: 0

Regarding:

Comments:

Corrective Action:

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Chain of Custody Form

Page 7 of 9

COC ID: 93419

ALS Project Manager:

HS14040311

Navajo Refining Company
 Artesia Refinery Semi-Annual



Environmental

Customer Information			Project Information			Analysis Information														
Purchase Order	173653		Project Name	SA- Artesia Refinery-EP SA GW		A	VOC (Total)													
Work Order			Project Number			B	GRO (8015M)													
Company Name	Navajo Refining Company		Bill To Company	Navajo Refining Company		C	DRO (8015M)													
Send Report To	Aaron Strange		Invoice Attn	Carrie Hernandez		D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se													
Address	PO Box 159		Address	PO Box 159		E	Total Metals (6020/7470) Hg, Ni, V													
						F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS													
City/State/Zip	Artesia, NM 88211		City/State/Zip	Artesia, NM 88211		G	Cyanide (9014)													
Phone	(575) 748-6733		Phone	(575) 748-6733		H	Nitrate/Nitrite as N (preserved)													
Fax	(575) 746-5421		Fax	(575) 746-5421		I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se													
e-Mail Address	robert.combs@navajo-refining.com		e-Mail Address	robert.combs@navajo-refining.com		J	Dis. Metals (6020/7470) Hg, Ni, V													
No.	Sample Description		Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	OCD-6-0414		04/03/14	0825		2,3,8	6			X	X		X		X					
2	OCD-6-0414-D		04/03/14	0825		2,8	1									X				
3	OCD-7AR-0414		04/03/14	0900		2,3,8	6			X	X		X		X					
4	OCD-7AR-0414-D		04/03/14	0900		2,8	1									X				
5	UW-3-0414		04/03/14	0945		2,3,8	6			X	X		X		X					
6	UW-3-0414-D		04/03/14	0945		2,8	1									X				
7	Dup-2-0414		04/03/14			2,3,8	6			X	X		X		X					
8	Dup-2-0414-D		04/03/14			2,8	1									X				
9																				
10																				
Sample(s) Please Print & Sign			Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:											
J. S. Jerry Sose, Jr.			Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour															
Relinquished by:		Date:	Time:	Received by:		Notes:														
J. S. Jerry		04/15/14	1:40	Justin		10 Work Days TAT. CC Pam Krueger/Arcadis														
Relinquished by:		Date:	Time:	Relinquished by (Laboratory):		Cooler ID														
J. S. Jerry		4/15/14	9:25	Justin		Cooler Temp.														
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		QC Package: (Check One Box Below)														
						☒ Level II Std QC ☐ TRRP Check List														
						☐ Level III Std QC/Raw Data ☐ TRRP Level IV														
						☐ Level IV SW/845/CLP														
						☐ Other / EDD														
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																				

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COC ID: 93417

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Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	173654 173653	Project Name	SA- Artesia Refinery-EP SA GW			Parameter/Method Request for Analysis	
Work Order		Project Number					
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company				
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez				
Address	PO Box 159	Address	PO Box 159				
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211				
Phone	(575) 748-6733	Phone	(575) 748-6733				
Fax	(575) 746-5421	Fax	(575) 746-5421				
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com				
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	
1	MW-6A-0414	04/03/14	1010	HW	2,3,8	6	
2	MW-6A-0414-D	04/03/14	1010	HW	2,8	1	
3	MW-15-0414	04/03/14	1100	HW	2,3,8	6	
4	MW-15-0414-D	04/03/14	1100	HW	2,8	1	
5	MW-1R-0414	04/03/14	1135	HW	2,3,8	6	
6	MW-1R-0414-D	04/03/14	1135	HW	2,8	1	
7	MW-25-0414	04/03/14		HW			
8	MW-25-0414-D	04/03/14		HW			
9	QCD-1R-0414	04/03/14	1250	HW	2,3,8	6	
10	QCD-1R-0414-D	04/03/14	1250	HW	2,8	1	
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Sosa Jerry Sosa, Jerry		FedX		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour			
Relinquished by:		Date:	Time:	Received by:		Notes:	
Sosa Jerry		04/04/14	7:40	Received by (Laboratory):		10 Work Days TAT. CC Pam Krueger/Arcadis	
Relinquished by:		Date:	Time:	Checked by (Laboratory):		Cooler ID	
Sosa Jerry		4/5/14	9:25	Vicki...		Cooler Temp.	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		QC Package: (Check One Box Below)	
						☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other / EDD	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

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+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information				Project Information				ALS Project Manager:												ALS Work Order #:											
Parameter/Method Request for Analysis																															
Purchase Order	173654-173653			Project Name	SA- Artesia Refinery-EP SA GW			A	VOC (8260) Select																						
Work Order				Project Number				B	GRO (8015M)																						
Company Name	Navajo Refining Company			Bill To Company	Navajo Refining Company			C	DRO (8015M)																						
Send Report To	Aaron Strange			Invoice Attn	Carrie Hernandez			D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se																						
Address	PO Box 159			Address	PO Box 159			E	Total Metals (6020/7470) Hg, Ni, V																						
City/State/Zip	Artesia, NM 88211			City/State/Zip	Artesia, NM 88211			F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS																						
Phone	(575) 748-6733			Phone	(575) 748-6733			G	Cyanide (9014)																						
Fax	(575) 746-5421			Fax	(575) 746-5421			H	Nitrate/Nitrite as N (preserved)																						
e-Mail Address	robert.combs@navajo-refining.com			e-Mail Address	robert.combs@navajo-refining.com			I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se																						
								J	Dis. Metals (6020/7470) Hg, Ni, V																						
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold														
1	OCD-2A-0414	04/03/14	1325	HW	2.8	6			X	X		X		X																	
2	OCD-2A-0414-D	04/03/14	1325	HW	2.8	1									X																
3	OCD-3-0414	04/03/14	1405	HW	2.8	6			X	X		X		X																	
4	OCD-3-0414-D	04/03/14	1405	HW	2.8	1									X																
5	EB-3-0414	04/03/14	1600	HW	2.8	7			X	X	X	X	X	X																	
6	EB-3-0414-D	04/03/14	1600	HW	2.8	1									X	X															
7																															
8																															
9																															
10																															
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)												Results Due Date:											
[Signature]				Fed X				☒ 10 Work Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour																							
Relinquished by:				Date:				Time:				Received by:				Notes:															
[Signature]				04/04/14				7:40				[Signature]				10 Work Days TAT. CC Pam Krueger/Arcadis															
Relinquished by:				Date:				Time:				Received by (Laboratory):				Cooler ID:															
[Signature]				4/5/14				9:25				[Signature]				Cooler Temp:															
Logged by (Laboratory):				Date:				Time:				Checked by (Laboratory):				QC Package: (Check One Box Below)															
																☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other / EDD															
Preservative Key:				1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																											

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+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information			Project Information			Parameter/Method Request for Analysis													
Purchase Order	173654	Project Name	SA- Artesia Refinery-EP SA GW			A	VOC (8260) Select												
Work Order		Project Number				B	GRO (8015M)												
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company			C	DRO (8015M)												
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez			D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
Address	PO Box 159	Address	PO Box 159			E	Total Metals (6020/7470) Hg, Ni, V												
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211			F	Anions (300) Cl, F, SO ₄ , Cations (Ca, Mg, K, Na) TDS												
Phone	(575) 748-6733	Phone	(575) 748-6733			G	Cyanide (9014)												
Fax	(575) 746-5421	Fax	(575) 746-5421			H	Nitrate/Nitrite as N (preserved)												
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com			I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
						J	Dis. Metals (6020/7470) Hg, Ni, V												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-25-0414	04/07/14	1205	(H ₂ O)	2.3.8	6			X	X	X	X							
2	MW-25-0414-D	04/07/14	1205	(H ₂ O)	2.8	1									X				
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s) Please Print & Sign		Ship/Transport Method		Required Turnaround Time: (Check Box)				Results Due Date:											
Sas2, Sam		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other				☐ 2 WK Days ☐ 24 Hour											
Relinquished by:		Date:	Time:	Received by:		Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis													
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)											
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				☒ Level II Std QC ☐ TRRP CheckList											
								☐ Level III Std QC/Raw Data ☐ TRRP Level IV											
								☐ Level IV SW845/CLP											
								☐ Other / EDD											
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																			

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Salt Lake City, UT
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South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information		Project Information		ALS Project Manager: ALS Work Order #:															
Purchase Order		Project Name		Parameter/Method Request for Analysis															
173854- 173653		SA- Artesia Refinery-EP SA GW		A	VOC (8260) Select														
Work Order		Project Number		B	GRO (8015M)														
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)														
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se														
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V														
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO ₄ , Cations (Ca, Mg, K, Na) TDS														
Phone	(575) 748-6733	Phone	(575) 748-6733	G	Cyanide (9014)														
Fax	(575) 746-5421	Fax	(575) 746-5421	H	Nitrate/Nitrite as N (preserved)														
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se														
				J	Dis. Metals (6020/7470) Hg, Ni, V														
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-12-0414	04/04/14	0940	HW	2.8	6			X	X		X		X					
2	MW-12-0414-D	04/04/14	0940	HW	2.8	1									X				
3	EB-4-0414	04/04/14	1005	HW	2.8	7			X	X	X	X	X	X					
4	EB-4-0414	04/04/14	1005	HW	2.8	1									X	X			
5	MW-13-0414	04/04/14	1025	HW	2.8	6			X	X		X		X					
6	MW-13-0414-D	04/04/14	1025	HW	2.8	1									X				
7	OCN-4-0414	04/04/14	1130	HW	2.8	6			X	X		X		X					
8	OCN-4-0414-D	04/04/14	1130	HW	2.8	1									X				
9																			
10																			
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:											
SOSI Sam Sam Sam		Fed X		☒ Std 10 W/K Days ☐ 5 W/K Days ☐ Other ☐ 2 W/K Days ☐ 24 Hour															
Relinquished by:		Date:	Time:	Received by:		Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis													
SOSI Sam		04/04/14	9:25	P. S. S. S.															
Relinquished by:		Date:	Time:	Received by (Laboratory):		QC Package: (Check One Box Below)													
						☒ Level II Std QC ☐ TRRP Check List ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD													
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):															
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																			

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Spring City, PA
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Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information				Project Information				ALS Project Manager:												ALS Work Order #:			
Parameter/Method Request for Analysis																							
Purchase Order	173654	173653	Project Name	SA- Artesia Refinery-EP SA GW	A	VOC (8260) Select																	
Work Order			Project Number		B	GRO (8015M)																	
Company Name	Navajo Refining Company		Bill To Company	Navajo Refining Company	C	DRO (8015M)																	
Send Report To	Aaron Strange		Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se																	
Address	PO Box 159		Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V																	
City/State/Zip	Artesia, NM 88211		City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS																	
Phone	(575) 748-6733		Phone	(575) 748-6733	G	Cyanide (9014)																	
Fax	(575) 746-5421		Fax	(575) 746-5421	H	Nitrate/Nitrite as N (preserved)																	
e-Mail Address	robert.combs@navajo-refining.com		e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se																	
					J	Dis. Metals (6020/7470) Hg, Ni, V																	
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold						
1	OCD-5-0414	04/04/14	1200	HW	2,3,8	6			X	X		X		X									
2	OCD-5-0414-D	04/04/14	1200	HW	2,8	1									X								
3	Dup-3-0414	04/04/14		HW	2,3,8	6			X	X		X		X									
4	Dup-3-0414-D	04/04/14		HW	2,8	1									X								
5	MW-11A-0414	04/04/14	1245	HW	2,3,8	6			X	X		X		X									
6	MW-11A-0414-D	04/04/14	1245	HW	2,8	1									X								
7																							
8																							
9																							
10																							
Sampler(s) Please Print & Sign				Ship/Flight Method		Required Turnaround Time: (Check Box)				Results Due Date:													
Sosa Jerry Sosa Jerry				RPN X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour																	
Relinquished by:		Date:	Time:	Received by:		Notes:																	
Sosa Jerry		04/04/14	1400	Justin Euter		10 Work Days TAT. CC Pam Krueger/Arcadis																	
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)													
Sosa Jerry		4/5/14	9:25	Justin Euter						☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other / EDP													
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):																			
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																							

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Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order	173653	Project Name	SA- Artesia Refinery-EP SA GW	A	VOC (8260) Select												
Work Order		Project Number		B	GRO (8015M)												
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)												
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V												
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS												
Phone	(575) 748-3733	Phone	(575) 748-3733	G	Cyanide (9014)												
Fax	(575) 746-5421	Fax	(575) 746-5421	H	Nitrate/Nitrite as N (preserved)												
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
				J	Dis. Metals (6020/7470) Hg, Ni, V												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	OCD-6-0414	04/03/14	0825	H2O	1.8	6	X	X									
2	OCD-7AR-0414	04/03/14	0900	H2O	1.8	6	X	X									
3	Dup-2-0414	04/03/14	0	H2O	1.8	6	X	X									
4	MW-3-0414	04/03/14	0945	H2O	1.8	6	X	X									
5	MW-6A-0414	04/03/14	1010	H2O	1.8	6	X	X									
6	MW-15-0414	04/03/14	1100	H2O	1.8	6	X	X									
7	MW-1R-0414	04/03/14	1135	H2O	1.8	3	X										
8	MW-25-0414	04/03/14		H2O	1.8												
9	OCD-1R-0414	04/03/14	1250	H2O	1.8	6	X	X									
10	OCD-2A-0414	04/03/14	1325	H2O	1.8	6	X	X									

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)			Results Due Date:	
Jose, Jerry		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour				
Relinquished by:	Date:	Time:	Received by:	Notes:				
Jose, Jerry	4/15/14	9:25	Justin E	10 Work Days TAT. CC Pam Krueger/Arcadis				
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
						☒ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW/845/CLP ☐ Other / EDD		
Logged by (Laboratory):								
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O8 6-NaHSO4 7-Other 8-4°C 9-5035								

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+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information			Project Information			ALS Project Manager: ALS Work Order #:																
Parameter/Method Request for Analysis																						
Purchase Order	173654	Project Name	SA- Artesia Refinery-EP SA GW			A	VOC (8260) Select															
Work Order		Project Number				B	GRO (8015M)															
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company			C	DRO (8015M)															
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez			D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V																	
				F	Anions (300) Cl, F, SO ₄ , Cations (Ca, Mg, K, Na) TDS																	
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211			G	Cyanide (9014)															
Phone	(575) 748-6733	Phone	(575) 748-6733			H	Nitrate/Nitrite as N (preserved)															
Fax	(575) 746-5421	Fax	(575) 746-5421			I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com			J	Dis. Metals (6020/7470) Hg, Ni, V															

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	www-25-0414	04/03/14	(205)	(H ₂ O)	1.8	3	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:					
Jose Sosa		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other									
Relinquished by:		Date: 04/04/14 Time: 1:00		Received by:				Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis					
Relinquished by:		Date: 4/5/14 Time: 9:05		Received by (Laboratory):				Cooler ID					
Logged by (Laboratory):		Date:		Checked by (Laboratory):				Cooler Temp.					
Preservative Key:		1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				QC Package: (Check One Box Below)							
						☒ Level II Std QC ☐ TRRP CheckList							
						☐ Level III Std QC/Raw Data ☐ TRRP Level IV							
						☐ Level IV SW846/CLP							
						☐ Other / EDD							

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Salt Lake City, UT
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South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information			Project Information			Parameter/Method Request for Analysis													
Purchase Order	173653	Project Name	SA- Artesia Refinery-EP SA GW			A	VOC (8260) Select												
Work Order		Project Number				B	GRO (8015M)												
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company			C	DRO (8015M)												
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez			D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
Address	PO Box 159	Address	PO Box 159			E	Total Metals (6020/7470) Hg, Ni, V												
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211			F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS												
Phone	(575) 748-6733	Phone	(575) 748-6733			G	Cyanide (9014)												
Fax	(575) 746-5421	Fax	(575) 746-5421			H	Nitrate/Nitrite as N (preserved)												
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com			I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
						J	Dis. Metals (6020/7470) Hg, Ni, V												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	OCB-3-0414	04/03/14	1405	ltw	1.8	6	XX										
2	EB-4-0414	04/04/14	1005	ltw	1.8	6	XX										
3	OCB-4-0414	04/04/14	1130	ltw	1.8	6	XX										
4	OCB-5-0414	04/04/14	1200	ltw	1.8	6	XX										
5	Dup-3-0414	04/04/14		ltw	1.8	6	XX										
6	MW-11A-0414	04/04/14	1245		1.8	6	XX										
7	7B-032514-40	04/04/14	1400	ltw	1.8	2	X										
8																	
9	EB-3-0414	04/03/14	1600	ltw	1.8	6	XX										
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Jose Serry		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other _____			
Relinquished by:		Date:	Time:	Received by:		Notes:	
Jose Serry		04/04/14	1400	Pastor E		10 Work Days TAT. CC Pam Krueger/Arcadis	
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID	
Jose Serry		4/5/14	9:25	Pastor E			
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Cooler Temp.	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							
QC Package: (Check One Box Below) ☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other / EDD							

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TRKH 5614 5589 5851 SATURDAY 12:00P
 0201 PRIORITY OVERNIGHT
X0 SGRA 770991
 TX-US IAH3



TRKH 5614 5589 5873 SATURDAY 12:00P
 0201 PRIORITY OVERNIGHT
X0 SGRA 770999
 TX-US IAH



 ALS Environmental 10450 Starbuck Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 630 5666 Fax. +1 281 630 6887	CUSTODY SEAL		Seal Broken By:
	Date: 05/04/04	Time: 1400	Date:
	Name: SSV	SSV	
	Company:		

TRKH 5614 5589 5862 SATURDAY 12:00P
 0201 PRIORITY OVERNIGHT
X0 SGRA 77099
 TX-US IAH

Environmental cliff Rd., Suite 210 Texas 77099 530 5656 530 5687	CUSTODY SEAL Date: 12/18/14 Time: 11:00 Name: [Signature] Company: S		Seal Broken By: [Signature] Date: 12/18/14

S Environmental 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5687	CUSTODY SEAL Date: 12/18/14 Time: 14:00 Name: [Signature] Company: S		Seal Broken By: [Signature] Date: 12/18/14

TRKH 5614 5589 7095 SATURDAY 12:00P
 0201 PRIORITY OVERNIGHT
X0 SGRA 77099
 TX-US IAH



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F: +1 281 530 5887
www.alsglobal.com

September 03, 2014

Aaron Strange
Navajo Refining Company
PO Box 1490
Artesia, NM 88211-1490

Work Order: **HS14040557**

Revision: **2**

Laboratory Results for: **SA-Artesia Refinery -Sitewide GW**

Dear Aaron,

ALS Environmental received 43 sample(s) on Apr 09, 2014 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

A handwritten signature in cursive script that reads 'Bethany McDaniel'.

Generated By: Bethany.McDaniel
Bethany McDaniel
Project Manager

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Work Order: HS14040557

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040557-01	MW-4A-0414	Water		07-Apr-2014 12:35	09-Apr-2014 09:25	☐
HS14040557-02	MW-4A-0414-D	Water		07-Apr-2014 12:35	09-Apr-2014 09:25	☐
HS14040557-03	MW-5A-0414	Water		07-Apr-2014 13:05	09-Apr-2014 09:25	☐
HS14040557-04	MW-5A-0414-D	Water		07-Apr-2014 13:05	09-Apr-2014 09:25	☐
HS14040557-05	MW-7A-0414	Water		07-Apr-2014 13:35	09-Apr-2014 09:25	☐
HS14040557-06	MW-7A-0414-D	Water		07-Apr-2014 13:35	09-Apr-2014 09:25	☐
HS14040557-07	EB-5-0414	Water		07-Apr-2014 15:30	09-Apr-2014 09:25	☐
HS14040557-08	EB-5-0414-D	Water		07-Apr-2014 15:30	09-Apr-2014 09:25	☐
HS14040557-09	OCD-8A-0414	Water		08-Apr-2014 09:00	09-Apr-2014 09:25	☐
HS14040557-10	OCD-8A-0414-D	Water		08-Apr-2014 09:00	09-Apr-2014 09:25	☐
HS14040557-11	DUP-4-0414	Water		08-Apr-2014 00:00	09-Apr-2014 09:25	☐
HS14040557-12	DUP-4-0414-D	Water		08-Apr-2014 00:00	09-Apr-2014 09:25	☐
HS14040557-13	EB-6-0414	Water		08-Apr-2014 09:25	09-Apr-2014 09:25	☐
HS14040557-14	EB-6-0414-D	Water		08-Apr-2014 09:25	09-Apr-2014 09:25	☐
HS14040557-15	MW-87-0414	Water		08-Apr-2014 09:45	09-Apr-2014 09:25	☐
HS14040557-16	MW-87-0414-D	Water		08-Apr-2014 09:45	09-Apr-2014 09:25	☐
HS14040557-17	MW-18A-0414	Water		08-Apr-2014 10:25	09-Apr-2014 09:25	☐
HS14040557-18	MW-18A-0414-D	Water		08-Apr-2014 10:25	09-Apr-2014 09:25	☐
HS14040557-19	MW-70-0414	Water		08-Apr-2014 11:10	09-Apr-2014 09:25	☐
HS14040557-20	MW-70-0414-D	Water		08-Apr-2014 11:10	09-Apr-2014 09:25	☐
HS14040557-21	MW-124-0414	Water		08-Apr-2014 11:40	09-Apr-2014 09:25	☐
HS14040557-22	MW-124-0414-D	Water		08-Apr-2014 11:40	09-Apr-2014 09:25	☐
HS14040557-23	MW-88-0414	Water		08-Apr-2014 12:45	09-Apr-2014 09:25	☐
HS14040557-24	MW-88-0414-D	Water		08-Apr-2014 12:45	09-Apr-2014 09:25	☐
HS14040557-25	MW-22A-0414	Water		08-Apr-2014 13:15	09-Apr-2014 09:25	☐
HS14040557-26	MW-22A-0414-D	Water		08-Apr-2014 13:15	09-Apr-2014 09:25	☐
HS14040557-27	MW-10-0414	Water		08-Apr-2014 13:45	09-Apr-2014 09:25	☐

Revision:2

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Work Order: HS14040557

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040557-28	MW-10-0414-D	Water		08-Apr-2014 13:45	09-Apr-2014 09:25	☐
HS14040557-29	MW-27-0414	Water		09-Apr-2014 08:00	09-Apr-2014 09:25	☐
HS14040557-30	MW-27-0414-D	Water		09-Apr-2014 08:00	09-Apr-2014 09:25	☐
HS14040557-31	MW-89-0414	Water		09-Apr-2014 08:35	09-Apr-2014 09:25	☐
HS14040557-32	MW-89-0414-D	Water		09-Apr-2014 08:35	09-Apr-2014 09:25	☐
HS14040557-33	EB-7-0414	Water		09-Apr-2014 09:05	09-Apr-2014 09:25	☐
HS14040557-34	EB-7-0414-D	Water		09-Apr-2014 09:05	09-Apr-2014 09:25	☐
HS14040557-35	MW-16-0414	Water		09-Apr-2014 09:30	09-Apr-2014 09:25	☐
HS14040557-36	MW-16-0414-D	Water		09-Apr-2014 09:30	09-Apr-2014 09:25	☐
HS14040557-37	MW-26-0414	Water		09-Apr-2014 10:05	09-Apr-2014 09:25	☐
HS14040557-38	MW-26-0414-D	Water		09-Apr-2014 10:05	09-Apr-2014 09:25	☐
HS14040557-39	MW-17-0414	Water		09-Apr-2014 10:45	09-Apr-2014 09:25	☐
HS14040557-40	MW-17-0414-D	Water		09-Apr-2014 10:45	09-Apr-2014 09:25	☐
HS14040557-41	Trip Blank 032814-13	Water		09-Apr-2014 00:00	09-Apr-2014 09:25	☐
HS14040557-42	MW-123-0414	Water		08-Apr-2014 14:15	09-Apr-2014 09:25	☐
HS14040557-43	MW-123-0414-D	Water		08-Apr-2014 14:15	09-Apr-2014 09:25	☐

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Work Order: HS14040557

CASE NARRATIVE

This report was revised on September 3, 2014 to report to the MDL per client request

Report was revised on July 22, 2014 per client request to remove Magnesium from Fraction -05 and add Nickel and Vanadium to Fraction -09 and -10.

Gasoline Range Organics Method SW8015, samples analyzed outside the analytical holding time due to laboratory error. Results should be considered estimated.

Various samples were analyzed for Total Metals by method 6020 at a dilution due to matrix interference from non-target analytes.

Batch R232301, Gasoline Range Organics Method SW8015, sample HS14040529-08, MS/MSD was performed on an unrelated sample.

Batch 81157, Metals Method SW6020, sample MW-5A-0414-D, MS/PDS recovered outside the control limits for Manganese due to matrix interference.. The serial dilution for Iron recovered above the RPD limit.

Batch 81208, Metals Method SW6020, sample MW-4A-0414, MS/MSD/PDS/SD recoveries were outside control limits for some few compounds due to matrix interference.

Batch 81212, Metals Method SW6020, sample HS14040510-03, MS/MSD was performed on an unrelated sample .

Batch R231915, Volatile Organics Method SW8260, LCS recovery was above the control limits for Methyl tert-butyl ether. The associated results are Non Detect.

Batch R231915, Volatile Organics Method SW8260, CCV %D was above the control limits for Methyl tert-butyl ether. The associated sample results are Non Detect..

Batch R231915, Volatile Organics Method SW8260, sample HS14040372-11,MS/MSD was performed on an unrelated sample.. Batch R232152, Volatile Organics Method SW8260, sample MW-27-0414, MS/MSD RPD recovered above the control limits for Methyl tert-butyl ether.

Batch R232506, Anions Method E300, sample HS14040847-02, MS/MSD was performed on an unrelated sample.

Batch R232621, Anions Method E300, sample MW-123-0414, MS/MSD recovered above the control limits for chloride due to matrix interference.

Batch R232678, Anions Method E300, sample MW-89-0414, MS/MSD recovered above the control limits for sulfated due to matrix interference.

Batch R232888, Anions Method E300, sample HS14040662-04, MS/MSD was performed on an unrelated sample.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-4A-0414
 Collection Date: 07-Apr-2014 12:35

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:08
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:08
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	15-Apr-2014 19:08
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
2-Butanone	0.0028	J	0.0010	0.010	mg/L	1	15-Apr-2014 19:08
2-Hexanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 19:08
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 19:08
Acetone	0.023		0.0020	0.010	mg/L	1	15-Apr-2014 19:08
Benzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
Bromoform	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
Bromomethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
Carbon disulfide	U		0.00090	0.010	mg/L	1	15-Apr-2014 19:08
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
Chlorobenzene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:08
Chloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
Chloroform	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
Chloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
Ethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
m,p-Xylene	U		0.00060	0.010	mg/L	1	15-Apr-2014 19:08
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
Methylene chloride	U		0.0010	0.010	mg/L	1	15-Apr-2014 19:08
Naphthalene	U		0.00070	0.0050	mg/L	1	15-Apr-2014 19:08
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	15-Apr-2014 19:08
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
o-Xylene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
Styrene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
Toluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-4A-0414
 Collection Date: 07-Apr-2014 12:35

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:08
Trichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:08
Vinyl chloride	U		0.00040	0.0020	mg/L	1	15-Apr-2014 19:08
Xylenes, Total	U		0.0015	0.015	mg/L	1	15-Apr-2014 19:08
Surr: 1,2-Dichloroethane-d4	98.3			70-125	%REC	1	15-Apr-2014 19:08
Surr: 4-Bromofluorobenzene	104			72-125	%REC	1	15-Apr-2014 19:08
Surr: Dibromofluoromethane	100			71-125	%REC	1	15-Apr-2014 19:08
Surr: Toluene-d8	102			75-125	%REC	1	15-Apr-2014 19:08
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.147		0.00200	0.0100	mg/L	2	06-May-2014 01:54
Barium	0.0121		0.00180	0.0100	mg/L	2	03-May-2014 04:00
Calcium	571		0.670	5.00	mg/L	10	05-May-2014 22:35
Chromium	U		0.00200	0.0100	mg/L	2	06-May-2014 01:54
Iron	2.31		0.100	0.400	mg/L	2	06-May-2014 01:54
Lead	U		0.00140	0.0100	mg/L	2	06-May-2014 01:54
Manganese	2.24		0.0250	0.0500	mg/L	10	05-May-2014 22:35
Potassium	4.24		0.100	0.400	mg/L	2	03-May-2014 04:00
Selenium	U		0.00200	0.0100	mg/L	2	06-May-2014 01:54
Sodium	990		0.500	2.00	mg/L	10	05-May-2014 22:35
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	0.342	H	0.0100	0.0500	mg/L	1	22-Apr-2014 00:31
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	22-Apr-2014 00:31
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,600		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	148,000		1000	2500	mg/L	5000	26-Apr-2014 05:05
Fluoride	1.47		0.0500	0.100	mg/L	1	26-Apr-2014 09:56
Sulfate	227,000		1000	2500	mg/L	5000	26-Apr-2014 05:05
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	3.4		0.021	0.053	mg/L	1	16-Apr-2014 11:46
Surr: 2-Fluorobiphenyl	111			60-135	%REC	1	16-Apr-2014 11:46
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	0.199	J	0.150	1.00	mg/L	5	26-Apr-2014 06:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-4A-0414-D
Collection Date: 07-Apr-2014 12:35

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0786		0.00200	0.0100	mg/L	2	25-Apr-2014 04:54
Barium	0.0121		0.00180	0.0100	mg/L	2	25-Apr-2014 04:54
Chromium	U		0.00200	0.0100	mg/L	2	25-Apr-2014 04:54
Iron	0.614		0.156	0.400	mg/L	2	25-Apr-2014 04:54
Lead	U		0.00140	0.0100	mg/L	2	25-Apr-2014 16:25
Manganese	2.36		0.00500	0.0100	mg/L	2	25-Apr-2014 04:54
Selenium	U		0.00200	0.0100	mg/L	2	25-Apr-2014 04:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-5A-0414
 Collection Date: 07-Apr-2014 13:05

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:33
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:33
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	15-Apr-2014 19:33
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
2-Butanone	0.0025	J	0.0010	0.010	mg/L	1	15-Apr-2014 19:33
2-Hexanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 19:33
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 19:33
Acetone	0.011		0.0020	0.010	mg/L	1	15-Apr-2014 19:33
Benzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
Bromoform	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
Bromomethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
Carbon disulfide	U		0.00090	0.010	mg/L	1	15-Apr-2014 19:33
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
Chlorobenzene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:33
Chloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
Chloroform	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
Chloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
Ethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
m,p-Xylene	U		0.00060	0.010	mg/L	1	15-Apr-2014 19:33
Methyl tert-butyl ether	0.0032	J	0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
Methylene chloride	U		0.0010	0.010	mg/L	1	15-Apr-2014 19:33
Naphthalene	U		0.00070	0.0050	mg/L	1	15-Apr-2014 19:33
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	15-Apr-2014 19:33
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
o-Xylene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
Styrene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
Toluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-5A-0414
 Collection Date: 07-Apr-2014 13:05

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:33
Trichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:33
Vinyl chloride	U		0.00040	0.0020	mg/L	1	15-Apr-2014 19:33
Xylenes, Total	U		0.0015	0.015	mg/L	1	15-Apr-2014 19:33
Surr: 1,2-Dichloroethane-d4	99.3			70-125	%REC	1	15-Apr-2014 19:33
Surr: 4-Bromofluorobenzene	104			72-125	%REC	1	15-Apr-2014 19:33
Surr: Dibromofluoromethane	98.2			71-125	%REC	1	15-Apr-2014 19:33
Surr: Toluene-d8	99.8			75-125	%REC	1	15-Apr-2014 19:33
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.106		0.00500	0.0250	mg/L	5	06-May-2014 03:09
Barium	0.0142	J	0.00450	0.0250	mg/L	5	06-May-2014 03:09
Calcium	562		0.670	5.00	mg/L	10	05-May-2014 22:55
Chromium	U		0.00500	0.0250	mg/L	5	06-May-2014 03:09
Iron	7.10		0.250	1.00	mg/L	5	06-May-2014 03:09
Lead	U		0.00350	0.0250	mg/L	5	06-May-2014 03:09
Manganese	1.74		0.0250	0.0500	mg/L	10	05-May-2014 22:55
Potassium	6.58		0.250	1.00	mg/L	5	06-May-2014 03:09
Selenium	U		0.00500	0.0250	mg/L	5	06-May-2014 03:09
Sodium	4,230		5.00	20.0	mg/L	100	06-May-2014 19:58
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	4.48	H	0.0100	0.0500	mg/L	1	22-Apr-2014 00:49
Surr: 4-Bromofluorobenzene	113			70-130	%REC	1	22-Apr-2014 00:49
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	18,100		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	4,710		20.0	50.0	mg/L	100	26-Apr-2014 05:20
Fluoride	3.03		0.0500	0.100	mg/L	1	26-Apr-2014 10:11
Sulfate	8,160		20.0	50.0	mg/L	100	26-Apr-2014 05:20
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	6.1		0.020	0.051	mg/L	1	16-Apr-2014 12:12
Surr: 2-Fluorobiphenyl	121			60-135	%REC	1	16-Apr-2014 12:12
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 06:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-5A-0414-D
Collection Date: 07-Apr-2014 13:05

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0796		0.00500	0.0250	mg/L	5	06-May-2014 23:34
Barium	0.0106	J	0.00450	0.0250	mg/L	5	06-May-2014 23:34
Chromium	U		0.00500	0.0250	mg/L	5	06-May-2014 23:34
Iron	5.40		0.390	1.00	mg/L	5	06-May-2014 23:34
Lead	U		0.00350	0.0250	mg/L	5	06-May-2014 23:34
Manganese	1.62		0.0125	0.0250	mg/L	5	06-May-2014 23:34
Selenium	U		0.00500	0.0250	mg/L	5	06-May-2014 23:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-7A-0414
 Collection Date: 07-Apr-2014 13:35

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:59
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:59
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	15-Apr-2014 19:59
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
2-Butanone	0.0018	J	0.0010	0.010	mg/L	1	15-Apr-2014 19:59
2-Hexanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 19:59
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 19:59
Acetone	0.0041	J	0.0020	0.010	mg/L	1	15-Apr-2014 19:59
Benzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
Bromoform	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
Bromomethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
Carbon disulfide	U		0.00090	0.010	mg/L	1	15-Apr-2014 19:59
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
Chlorobenzene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:59
Chloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
Chloroform	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
Chloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
Ethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
m,p-Xylene	U		0.00060	0.010	mg/L	1	15-Apr-2014 19:59
Methyl tert-butyl ether	0.0018	J	0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
Methylene chloride	U		0.0010	0.010	mg/L	1	15-Apr-2014 19:59
Naphthalene	U		0.00070	0.0050	mg/L	1	15-Apr-2014 19:59
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	15-Apr-2014 19:59
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
o-Xylene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
Styrene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
Toluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 19:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-7A-0414
 Collection Date: 07-Apr-2014 13:35

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 19:59
Trichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 19:59
Vinyl chloride	U		0.00040	0.0020	mg/L	1	15-Apr-2014 19:59
Xylenes, Total	U		0.0015	0.015	mg/L	1	15-Apr-2014 19:59
Surr: 1,2-Dichloroethane-d4	94.7			70-125	%REC	1	15-Apr-2014 19:59
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	15-Apr-2014 19:59
Surr: Dibromofluoromethane	96.2			71-125	%REC	1	15-Apr-2014 19:59
Surr: Toluene-d8	96.6			75-125	%REC	1	15-Apr-2014 19:59
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.0256		0.00200	0.0100	mg/L	2	06-May-2014 03:14
Barium	0.0152		0.00180	0.0100	mg/L	2	03-May-2014 04:46
Calcium	469		0.670	5.00	mg/L	10	06-May-2014 00:29
Chromium	U		0.00200	0.0100	mg/L	2	06-May-2014 03:14
Iron	2.99		0.100	0.400	mg/L	2	06-May-2014 03:14
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 04:46
Manganese	0.509		0.00500	0.0100	mg/L	2	03-May-2014 04:46
Potassium	4.46		0.100	0.400	mg/L	2	03-May-2014 04:46
Selenium	U		0.00200	0.0100	mg/L	2	06-May-2014 03:14
Sodium	1,750		0.500	2.00	mg/L	10	06-May-2014 00:29
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	0.463	H	0.0100	0.0500	mg/L	1	22-Apr-2014 01:07
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	22-Apr-2014 01:07
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	7,760		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	2,670		10.0	25.0	mg/L	50	26-Apr-2014 05:34
Fluoride	1.19		0.0500	0.100	mg/L	1	26-Apr-2014 10:25
Sulfate	3,290		10.0	25.0	mg/L	50	26-Apr-2014 05:34
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.93		0.021	0.052	mg/L	1	16-Apr-2014 12:39
Surr: 2-Fluorobiphenyl	90.8			60-135	%REC	1	16-Apr-2014 12:39
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 07:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-7A-0414-D
Collection Date: 07-Apr-2014 13:35

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0239		0.00200	0.0100	mg/L	2	07-May-2014 19:15
Barium	0.0167		0.00180	0.0100	mg/L	2	07-May-2014 19:15
Chromium	U		0.00200	0.0100	mg/L	2	07-May-2014 19:15
Iron	2.34		0.156	0.400	mg/L	2	07-May-2014 19:15
Lead	U		0.00140	0.0100	mg/L	2	07-May-2014 19:15
Manganese	0.541		0.00500	0.0100	mg/L	2	07-May-2014 19:15
Selenium	U		0.00200	0.0100	mg/L	2	07-May-2014 19:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: EB-5-0414
 Collection Date: 07-Apr-2014 15:30

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 20:25
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 20:25
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	15-Apr-2014 20:25
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
2-Butanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 20:25
2-Hexanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 20:25
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 20:25
Acetone	U		0.0020	0.010	mg/L	1	15-Apr-2014 20:25
Benzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
Bromoform	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
Bromomethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
Carbon disulfide	U		0.00090	0.010	mg/L	1	15-Apr-2014 20:25
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
Chlorobenzene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 20:25
Chloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
Chloroform	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
Chloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
Ethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
m,p-Xylene	U		0.00060	0.010	mg/L	1	15-Apr-2014 20:25
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
Methylene chloride	U		0.0010	0.010	mg/L	1	15-Apr-2014 20:25
Naphthalene	U		0.00070	0.0050	mg/L	1	15-Apr-2014 20:25
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	15-Apr-2014 20:25
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
o-Xylene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
Styrene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
Toluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 20:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: EB-5-0414
 Collection Date: 07-Apr-2014 15:30

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:25
Trichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:25
Vinyl chloride	U		0.00040	0.0020	mg/L	1	15-Apr-2014 20:25
Xylenes, Total	U		0.0015	0.015	mg/L	1	15-Apr-2014 20:25
Surr: 1,2-Dichloroethane-d4	92.9			70-125	%REC	1	15-Apr-2014 20:25
Surr: 4-Bromofluorobenzene	94.4			72-125	%REC	1	15-Apr-2014 20:25
Surr: Dibromofluoromethane	98.1			71-125	%REC	1	15-Apr-2014 20:25
Surr: Toluene-d8	100.0			75-125	%REC	1	15-Apr-2014 20:25
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014	Analyst: ALR
Arsenic	U		0.00100	0.00500	mg/L	1	06-May-2014 03:24
Barium	U		0.000900	0.00500	mg/L	1	06-May-2014 03:24
Calcium	U		0.0670	0.500	mg/L	1	06-May-2014 03:24
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 03:24
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 03:24
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 03:24
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 03:24
Nickel	U		0.00100	0.00500	mg/L	1	06-May-2014 03:24
Potassium	U		0.0500	0.200	mg/L	1	06-May-2014 03:24
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 03:24
Sodium	0.134	J	0.0500	0.200	mg/L	1	06-May-2014 03:24
Vanadium	U		0.000900	0.00500	mg/L	1	06-May-2014 03:24
CYANIDE BY SW9012B		Method:SW9012				Prep:SW9010C / 21-Apr-2014	Analyst: KKB
Cyanide	U		0.00500	0.0200	mg/L	1	26-Apr-2014 12:43
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U	H	0.0100	0.0500	mg/L	1	22-Apr-2014 01:25
Surr: 4-Bromofluorobenzene	119			70-130	%REC	1	22-Apr-2014 01:25
MERCURY BY SW7470A		Method:SW7470				Prep:SW7470 / 29-Apr-2014	Analyst: JCJ
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:36
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	76.0		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	0.693		0.200	0.500	mg/L	1	26-Apr-2014 10:40
Fluoride	U		0.0500	0.100	mg/L	1	26-Apr-2014 10:40
Sulfate	0.810		0.200	0.500	mg/L	1	26-Apr-2014 10:40
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014	Analyst: RPM
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	16-Apr-2014 13:05
Surr: 2-Fluorobiphenyl	61.7			60-135	%REC	1	16-Apr-2014 13:05
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 07:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: EB-5-0414-D
 Collection Date: 07-Apr-2014 15:30

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0107		0.00100	0.00500	mg/L	1	07-May-2014 19:20
Barium	U		0.000900	0.00500	mg/L	1	07-May-2014 19:20
Chromium	U		0.00100	0.00500	mg/L	1	07-May-2014 19:20
Iron	U		0.0780	0.200	mg/L	1	07-May-2014 19:20
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 19:20
Manganese	U		0.00250	0.00500	mg/L	1	07-May-2014 19:20
Nickel	U		0.00100	0.00500	mg/L	1	07-May-2014 19:20
Selenium	U		0.00100	0.00500	mg/L	1	07-May-2014 19:20
Vanadium	U		0.000900	0.00500	mg/L	1	07-May-2014 19:20
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 18-Apr-2014		Analyst: OFO	
Mercury	U		0.0000420	0.000200	mg/L	1	18-Apr-2014 19:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: OCD-8A-0414
 Collection Date: 08-Apr-2014 09:00

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 20:50
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
1,2,4-Trimethylbenzene	0.0010	J	0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 20:50
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	15-Apr-2014 20:50
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
2-Butanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 20:50
2-Hexanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 20:50
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 20:50
Acetone	U		0.0020	0.010	mg/L	1	15-Apr-2014 20:50
Benzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
Bromoform	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
Bromomethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
Carbon disulfide	U		0.00090	0.010	mg/L	1	15-Apr-2014 20:50
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
Chlorobenzene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 20:50
Chloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
Chloroform	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
Chloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
Ethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
m,p-Xylene	U		0.00060	0.010	mg/L	1	15-Apr-2014 20:50
Methyl tert-butyl ether	0.0044	J	0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
Methylene chloride	U		0.0010	0.010	mg/L	1	15-Apr-2014 20:50
Naphthalene	U		0.00070	0.0050	mg/L	1	15-Apr-2014 20:50
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	15-Apr-2014 20:50
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
o-Xylene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
Styrene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
Toluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 20:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: OCD-8A-0414
 Collection Date: 08-Apr-2014 09:00

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 20:50
Trichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 20:50
Vinyl chloride	U		0.00040	0.0020	mg/L	1	15-Apr-2014 20:50
Xylenes, Total	U		0.0015	0.015	mg/L	1	15-Apr-2014 20:50
Surr: 1,2-Dichloroethane-d4	94.5			70-125	%REC	1	15-Apr-2014 20:50
Surr: 4-Bromofluorobenzene	95.8			72-125	%REC	1	15-Apr-2014 20:50
Surr: Dibromofluoromethane	98.1			71-125	%REC	1	15-Apr-2014 20:50
Surr: Toluene-d8	99.4			75-125	%REC	1	15-Apr-2014 20:50
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.0676		0.00200	0.0100	mg/L	2	03-May-2014 04:56
Barium	0.0230		0.00180	0.0100	mg/L	2	03-May-2014 04:56
Calcium	671		0.670	5.00	mg/L	10	06-May-2014 00:34
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 04:56
Iron	7.72		0.100	0.400	mg/L	2	03-May-2014 04:56
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 04:56
Manganese	3.14		0.0250	0.0500	mg/L	10	06-May-2014 00:34
Nickel	0.0279		0.00200	0.0100	mg/L	2	03-May-2014 04:56
Potassium	8.70		0.100	0.400	mg/L	2	03-May-2014 04:56
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 04:56
Sodium	2,170		5.00	20.0	mg/L	100	06-May-2014 20:13
Vanadium	0.00223	J	0.00180	0.0100	mg/L	2	03-May-2014 04:56
CYANIDE BY SW9012B		Method:SW9012				Prep:SW9010C / 21-Apr-2014 Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	26-Apr-2014 12:43
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	0.728		0.0100	0.0500	mg/L	1	22-Apr-2014 13:52
Surr: 4-Bromofluorobenzene	97.3			70-130	%REC	1	22-Apr-2014 13:52
MERCURY BY SW7470A		Method:SW7470				Prep:SW7470 / 29-Apr-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:46
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	10,300		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	3,200		10.0	25.0	mg/L	50	26-Apr-2014 05:49
Fluoride	2.04		0.0500	0.100	mg/L	1	26-Apr-2014 10:54
Sulfate	3,690		10.0	25.0	mg/L	50	26-Apr-2014 05:49
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	2.9		0.020	0.051	mg/L	1	16-Apr-2014 13:31
Surr: 2-Fluorobiphenyl	110			60-135	%REC	1	16-Apr-2014 13:31
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 08:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: OCD-8A-0414-D
 Collection Date: 08-Apr-2014 09:00

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0791		0.00200	0.0100	mg/L	2	07-May-2014 19:30
Barium	0.0240		0.00180	0.0100	mg/L	2	07-May-2014 19:30
Chromium	U		0.00200	0.0100	mg/L	2	07-May-2014 19:30
Iron	8.18		0.156	0.400	mg/L	2	07-May-2014 19:30
Lead	U		0.00140	0.0100	mg/L	2	07-May-2014 19:30
Manganese	3.45		0.00500	0.0100	mg/L	2	07-May-2014 19:30
Nickel	0.0285		0.00200	0.0100	mg/L	2	07-May-2014 19:30
Selenium	U		0.00200	0.0100	mg/L	2	07-May-2014 19:30
Vanadium	0.00185	J	0.00180	0.0100	mg/L	2	07-May-2014 19:30
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 18-Apr-2014		Analyst: OFO	
Mercury	0.0000800	J	0.0000420	0.000200	mg/L	1	18-Apr-2014 19:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: DUP-4-0414
 Collection Date: 08-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 21:15
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 21:15
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	15-Apr-2014 21:15
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
2-Butanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 21:15
2-Hexanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 21:15
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 21:15
Acetone	U		0.0020	0.010	mg/L	1	15-Apr-2014 21:15
Benzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
Bromoform	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
Bromomethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
Carbon disulfide	U		0.00090	0.010	mg/L	1	15-Apr-2014 21:15
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
Chlorobenzene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 21:15
Chloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
Chloroform	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
Chloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
Ethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
m,p-Xylene	U		0.00060	0.010	mg/L	1	15-Apr-2014 21:15
Methyl tert-butyl ether	0.0047	J	0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
Methylene chloride	U		0.0010	0.010	mg/L	1	15-Apr-2014 21:15
Naphthalene	U		0.00070	0.0050	mg/L	1	15-Apr-2014 21:15
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	15-Apr-2014 21:15
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
o-Xylene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
Styrene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
Toluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 21:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: DUP-4-0414
 Collection Date: 08-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:15
Trichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:15
Vinyl chloride	U		0.00040	0.0020	mg/L	1	15-Apr-2014 21:15
Xylenes, Total	U		0.0015	0.015	mg/L	1	15-Apr-2014 21:15
Surr: 1,2-Dichloroethane-d4	96.8			70-125	%REC	1	15-Apr-2014 21:15
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	15-Apr-2014 21:15
Surr: Dibromofluoromethane	97.9			71-125	%REC	1	15-Apr-2014 21:15
Surr: Toluene-d8	97.2			75-125	%REC	1	15-Apr-2014 21:15
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.0683		0.00200	0.0100	mg/L	2	03-May-2014 05:01
Barium	0.0218		0.00180	0.0100	mg/L	2	03-May-2014 05:01
Calcium	657		0.670	5.00	mg/L	10	06-May-2014 00:39
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:01
Iron	7.73		0.100	0.400	mg/L	2	03-May-2014 05:01
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 05:01
Manganese	3.12		0.0250	0.0500	mg/L	10	06-May-2014 00:39
Nickel	0.0279		0.00200	0.0100	mg/L	2	03-May-2014 05:01
Potassium	8.73		0.100	0.400	mg/L	2	03-May-2014 05:01
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:01
Sodium	2,260		5.00	20.0	mg/L	100	06-May-2014 20:18
Vanadium	0.00219	J	0.00180	0.0100	mg/L	2	03-May-2014 05:01
CYANIDE BY SW9012B		Method:SW9012				Prep:SW9010C / 21-Apr-2014 Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	26-Apr-2014 12:43
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	0.764		0.0100	0.0500	mg/L	1	22-Apr-2014 14:08
Surr: 4-Bromofluorobenzene	105			70-130	%REC	1	22-Apr-2014 14:08
MERCURY BY SW7470A		Method:SW7470				Prep:SW7470 / 29-Apr-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:47
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	9,780		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	3,030		10.0	25.0	mg/L	50	28-Apr-2014 23:14
Fluoride	1.92		0.0500	0.100	mg/L	1	26-Apr-2014 11:09
Sulfate	3,330		10.0	25.0	mg/L	50	28-Apr-2014 23:14
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	2.8		0.021	0.052	mg/L	1	16-Apr-2014 13:57
Surr: 2-Fluorobiphenyl	102			60-135	%REC	1	16-Apr-2014 13:57
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 08:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: DUP-4-0414-D
 Collection Date: 08-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-12
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0735		0.00200	0.0100	mg/L	2	07-May-2014 19:35
Barium	0.0235		0.00180	0.0100	mg/L	2	07-May-2014 19:35
Chromium	U		0.00200	0.0100	mg/L	2	07-May-2014 19:35
Iron	8.13		0.156	0.400	mg/L	2	07-May-2014 19:35
Lead	U		0.00140	0.0100	mg/L	2	07-May-2014 19:35
Manganese	3.38		0.00500	0.0100	mg/L	2	07-May-2014 19:35
Nickel	0.0295		0.00200	0.0100	mg/L	2	07-May-2014 19:35
Selenium	U		0.00200	0.0100	mg/L	2	07-May-2014 19:35
Vanadium	0.00193	J	0.00180	0.0100	mg/L	2	07-May-2014 19:35
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 18-Apr-2014		Analyst: OFO	
Mercury	0.00170		0.0000420	0.000200	mg/L	1	18-Apr-2014 19:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: EB-6-0414
 Collection Date: 08-Apr-2014 09:25

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 21:40
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 21:40
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	15-Apr-2014 21:40
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
2-Butanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 21:40
2-Hexanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 21:40
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 21:40
Acetone	U		0.0020	0.010	mg/L	1	15-Apr-2014 21:40
Benzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
Bromoform	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
Bromomethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
Carbon disulfide	U		0.00090	0.010	mg/L	1	15-Apr-2014 21:40
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
Chlorobenzene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 21:40
Chloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
Chloroform	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
Chloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
Ethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
m,p-Xylene	U		0.00060	0.010	mg/L	1	15-Apr-2014 21:40
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
Methylene chloride	U		0.0010	0.010	mg/L	1	15-Apr-2014 21:40
Naphthalene	U		0.00070	0.0050	mg/L	1	15-Apr-2014 21:40
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	15-Apr-2014 21:40
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
o-Xylene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
Styrene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
Toluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 21:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: EB-6-0414
 Collection Date: 08-Apr-2014 09:25

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 21:40
Trichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 21:40
Vinyl chloride	U		0.00040	0.0020	mg/L	1	15-Apr-2014 21:40
Xylenes, Total	U		0.0015	0.015	mg/L	1	15-Apr-2014 21:40
Surr: 1,2-Dichloroethane-d4	96.6			70-125	%REC	1	15-Apr-2014 21:40
Surr: 4-Bromofluorobenzene	103			72-125	%REC	1	15-Apr-2014 21:40
Surr: Dibromofluoromethane	99.9			71-125	%REC	1	15-Apr-2014 21:40
Surr: Toluene-d8	107			75-125	%REC	1	15-Apr-2014 21:40
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	06-May-2014 03:29
Barium	U		0.000900	0.00500	mg/L	1	06-May-2014 03:29
Calcium	U		0.0670	0.500	mg/L	1	06-May-2014 03:29
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 03:29
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 03:29
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 03:29
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 03:29
Nickel	U		0.00100	0.00500	mg/L	1	06-May-2014 03:29
Potassium	U		0.0500	0.200	mg/L	1	06-May-2014 03:29
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 03:29
Sodium	0.0666	J	0.0500	0.200	mg/L	1	06-May-2014 03:29
Vanadium	U		0.000900	0.00500	mg/L	1	06-May-2014 03:29
CYANIDE BY SW9012B			Method:SW9012			Prep:SW9010C / 21-Apr-2014 Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	26-Apr-2014 12:43
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	22-Apr-2014 14:24
Surr: 4-Bromofluorobenzene	98.8			70-130	%REC	1	22-Apr-2014 14:24
MERCURY BY SW7470A			Method:SW7470			Prep:SW7470 / 29-Apr-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:53
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	U		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	U		0.200	0.500	mg/L	1	28-Apr-2014 23:29
Fluoride	0.0630	J	0.0500	0.100	mg/L	1	26-Apr-2014 11:24
Sulfate	U		0.200	0.500	mg/L	1	28-Apr-2014 23:29
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	16-Apr-2014 15:16
Surr: 2-Fluorobiphenyl	65.0			60-135	%REC	1	16-Apr-2014 15:16
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 08:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: EB-6-0414-D
 Collection Date: 08-Apr-2014 09:25

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-14
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	07-May-2014 19:50
Barium	U		0.000900	0.00500	mg/L	1	07-May-2014 19:50
Chromium	U		0.00100	0.00500	mg/L	1	07-May-2014 19:50
Iron	U		0.0780	0.200	mg/L	1	07-May-2014 19:50
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 19:50
Manganese	U		0.00250	0.00500	mg/L	1	07-May-2014 19:50
Nickel	U		0.00100	0.00500	mg/L	1	07-May-2014 19:50
Selenium	U		0.00100	0.00500	mg/L	1	07-May-2014 19:50
Vanadium	U		0.000900	0.00500	mg/L	1	07-May-2014 19:50
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 18-Apr-2014		Analyst: OFO	
Mercury	0.000286		0.0000420	0.000200	mg/L	1	18-Apr-2014 19:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-87-0414
 Collection Date: 08-Apr-2014 09:45

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-15
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 22:06
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 22:06
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	15-Apr-2014 22:06
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
2-Butanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 22:06
2-Hexanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 22:06
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 22:06
Acetone	U		0.0020	0.010	mg/L	1	15-Apr-2014 22:06
Benzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
Bromoform	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
Bromomethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
Carbon disulfide	U		0.00090	0.010	mg/L	1	15-Apr-2014 22:06
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
Chlorobenzene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 22:06
Chloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
Chloroform	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
Chloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
Ethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
m,p-Xylene	U		0.00060	0.010	mg/L	1	15-Apr-2014 22:06
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
Methylene chloride	U		0.0010	0.010	mg/L	1	15-Apr-2014 22:06
Naphthalene	U		0.00070	0.0050	mg/L	1	15-Apr-2014 22:06
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	15-Apr-2014 22:06
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
o-Xylene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
Styrene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
Toluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 22:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-87-0414
 Collection Date: 08-Apr-2014 09:45

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-15
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:06
Trichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:06
Vinyl chloride	U		0.00040	0.0020	mg/L	1	15-Apr-2014 22:06
Xylenes, Total	U		0.0015	0.015	mg/L	1	15-Apr-2014 22:06
Surr: 1,2-Dichloroethane-d4	94.9			70-125	%REC	1	15-Apr-2014 22:06
Surr: 4-Bromofluorobenzene	105			72-125	%REC	1	15-Apr-2014 22:06
Surr: Dibromofluoromethane	96.5			71-125	%REC	1	15-Apr-2014 22:06
Surr: Toluene-d8	99.2			75-125	%REC	1	15-Apr-2014 22:06
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.00862	J	0.00200	0.0100	mg/L	2	03-May-2014 05:21
Barium	0.0168		0.00180	0.0100	mg/L	2	03-May-2014 05:21
Calcium	662		0.670	5.00	mg/L	10	06-May-2014 00:44
Chromium	0.00290	J	0.00200	0.0100	mg/L	2	03-May-2014 05:21
Iron	0.789		0.100	0.400	mg/L	2	03-May-2014 05:21
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 05:21
Manganese	0.103		0.00500	0.0100	mg/L	2	03-May-2014 05:21
Potassium	28.6		0.100	0.400	mg/L	2	03-May-2014 05:21
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:21
Sodium	3,120		5.00	20.0	mg/L	100	06-May-2014 20:23
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	22-Apr-2014 15:11
Surr: 4-Bromofluorobenzene	97.0			70-130	%REC	1	22-Apr-2014 15:11
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	13,600		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	5,340		20.0	50.0	mg/L	100	26-Apr-2014 06:18
Fluoride	1.50		0.250	0.500	mg/L	5	26-Apr-2014 11:38
Sulfate	4,760		20.0	50.0	mg/L	100	26-Apr-2014 06:18
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.23		0.020	0.051	mg/L	1	16-Apr-2014 15:42
Surr: 2-Fluorobiphenyl	78.9			60-135	%REC	1	16-Apr-2014 15:42
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	2.11		0.150	1.00	mg/L	5	26-Apr-2014 09:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-87-0414-D
Collection Date: 08-Apr-2014 09:45

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.00660	J	0.00500	0.0250	mg/L	5	07-May-2014 19:58
Barium	0.0160	J	0.00450	0.0250	mg/L	5	07-May-2014 19:58
Chromium	U		0.00500	0.0250	mg/L	5	07-May-2014 19:58
Iron	U		0.390	1.00	mg/L	5	07-May-2014 19:58
Lead	U		0.00350	0.0250	mg/L	5	07-May-2014 19:58
Manganese	0.0205	J	0.0125	0.0250	mg/L	5	07-May-2014 19:58
Selenium	U		0.00500	0.0250	mg/L	5	07-May-2014 19:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-18A-0414
 Collection Date: 08-Apr-2014 10:25

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-17
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 22:31
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	15-Apr-2014 22:31
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	15-Apr-2014 22:31
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
2-Butanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 22:31
2-Hexanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 22:31
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	15-Apr-2014 22:31
Acetone	U		0.0020	0.010	mg/L	1	15-Apr-2014 22:31
Benzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
Bromoform	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
Bromomethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
Carbon disulfide	U		0.00090	0.010	mg/L	1	15-Apr-2014 22:31
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
Chlorobenzene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 22:31
Chloroethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
Chloroform	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
Chloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
Ethylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
m,p-Xylene	U		0.00060	0.010	mg/L	1	15-Apr-2014 22:31
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
Methylene chloride	U		0.0010	0.010	mg/L	1	15-Apr-2014 22:31
Naphthalene	U		0.00070	0.0050	mg/L	1	15-Apr-2014 22:31
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	15-Apr-2014 22:31
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
o-Xylene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
Styrene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
Toluene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	15-Apr-2014 22:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-18A-0414
 Collection Date: 08-Apr-2014 10:25

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-17
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	15-Apr-2014 22:31
Trichloroethene	U		0.00050	0.0050	mg/L	1	15-Apr-2014 22:31
Vinyl chloride	U		0.00040	0.0020	mg/L	1	15-Apr-2014 22:31
Xylenes, Total	U		0.0015	0.015	mg/L	1	15-Apr-2014 22:31
Surr: 1,2-Dichloroethane-d4	99.6			70-125	%REC	1	15-Apr-2014 22:31
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	15-Apr-2014 22:31
Surr: Dibromofluoromethane	99.2			71-125	%REC	1	15-Apr-2014 22:31
Surr: Toluene-d8	98.5			75-125	%REC	1	15-Apr-2014 22:31
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	U		0.0100	0.0500	mg/L	10	06-May-2014 20:03
Barium	0.0135		0.00180	0.0100	mg/L	2	03-May-2014 05:26
Calcium	723		0.670	5.00	mg/L	10	06-May-2014 00:49
Chromium	U		0.0100	0.0500	mg/L	10	06-May-2014 20:03
Iron	U		0.500	2.00	mg/L	10	06-May-2014 20:03
Lead	U		0.00700	0.0500	mg/L	10	06-May-2014 20:03
Manganese	0.189		0.0250	0.0500	mg/L	10	06-May-2014 20:03
Nickel	U		0.0100	0.0500	mg/L	10	06-May-2014 20:03
Potassium	61.4		0.100	0.400	mg/L	2	03-May-2014 05:26
Selenium	U		0.0100	0.0500	mg/L	10	06-May-2014 20:03
Sodium	6,620		5.00	20.0	mg/L	100	06-May-2014 20:28
Vanadium	U		0.00900	0.0500	mg/L	10	06-May-2014 20:03
CYANIDE BY SW9012B		Method:SW9012		Prep:SW9010C / 21-Apr-2014		Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	26-Apr-2014 12:43
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:54
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	27,700		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	10,200		100	250	mg/L	500	28-Apr-2014 14:00
Fluoride	3.63		0.0500	0.100	mg/L	1	26-Apr-2014 11:53
Sulfate	6,760		100	250	mg/L	500	28-Apr-2014 14:00
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 14-Apr-2014		Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	16-Apr-2014 16:08
Surr: 2-Fluorobiphenyl	66.4			60-135	%REC	1	16-Apr-2014 16:08
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	2.61		0.150	1.00	mg/L	5	26-Apr-2014 09:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-18A-0414-D
 Collection Date: 08-Apr-2014 10:25

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-18
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	U		0.0100	0.0500	mg/L	10	07-May-2014 20:03
Barium	0.0166	J	0.00900	0.0500	mg/L	10	07-May-2014 20:03
Chromium	U		0.0100	0.0500	mg/L	10	07-May-2014 20:03
Iron	U		0.780	2.00	mg/L	10	07-May-2014 20:03
Lead	U		0.00700	0.0500	mg/L	10	07-May-2014 20:03
Manganese	0.176		0.0250	0.0500	mg/L	10	07-May-2014 20:03
Nickel	U		0.0100	0.0500	mg/L	10	07-May-2014 20:03
Selenium	0.0323	J	0.0100	0.0500	mg/L	10	07-May-2014 20:03
Vanadium	U		0.00900	0.0500	mg/L	10	07-May-2014 20:03
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 18-Apr-2014		Analyst: OFO	
Mercury	U		0.0000420	0.000200	mg/L	1	18-Apr-2014 19:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-70-0414
 Collection Date: 08-Apr-2014 11:10

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-19
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:24
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:24
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:24
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
2-Butanone	0.0036	J	0.0010	0.010	mg/L	1	18-Apr-2014 16:24
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:24
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:24
Acetone	0.011		0.0020	0.010	mg/L	1	18-Apr-2014 16:24
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 16:24
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:24
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 16:24
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:24
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:24
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 16:24
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-70-0414
 Collection Date: 08-Apr-2014 11:10

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-19
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 16:24
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 16:24
Surr: 1,2-Dichloroethane-d4	104			70-125	%REC	1	18-Apr-2014 16:24
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	18-Apr-2014 16:24
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 16:24
Surr: Toluene-d8	100			75-125	%REC	1	18-Apr-2014 16:24
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.0286		0.00200	0.0100	mg/L	2	03-May-2014 05:31
Barium	0.0157		0.00180	0.0100	mg/L	2	03-May-2014 05:31
Calcium	697		0.670	5.00	mg/L	10	06-May-2014 00:54
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:31
Iron	3.36		0.100	0.400	mg/L	2	03-May-2014 05:31
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 05:31
Manganese	0.262		0.00500	0.0100	mg/L	2	03-May-2014 05:31
Potassium	5.38		0.100	0.400	mg/L	2	03-May-2014 05:31
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:31
Sodium	729		0.500	2.00	mg/L	10	06-May-2014 00:54
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	1.42		0.0100	0.0500	mg/L	1	22-Apr-2014 15:27
Surr: 4-Bromofluorobenzene	99.8			70-130	%REC	1	22-Apr-2014 15:27
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,080		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	1,310		10.0	25.0	mg/L	50	26-Apr-2014 06:47
Fluoride	0.560		0.0500	0.100	mg/L	1	26-Apr-2014 12:07
Sulfate	2,950		10.0	25.0	mg/L	50	26-Apr-2014 06:47
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.53		0.020	0.051	mg/L	1	16-Apr-2014 16:34
Surr: 2-Fluorobiphenyl	82.0			60-135	%REC	1	16-Apr-2014 16:34
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	0.210	J	0.150	1.00	mg/L	5	26-Apr-2014 10:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-70-0414-D
Collection Date: 08-Apr-2014 11:10

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0240		0.00100	0.00500	mg/L	1	07-May-2014 20:14
Barium	0.0154		0.000900	0.00500	mg/L	1	07-May-2014 20:14
Chromium	U		0.00100	0.00500	mg/L	1	07-May-2014 20:14
Iron	0.922		0.0780	0.200	mg/L	1	07-May-2014 20:14
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 20:14
Manganese	0.302		0.00250	0.00500	mg/L	1	07-May-2014 20:14
Selenium	U		0.00100	0.00500	mg/L	1	07-May-2014 20:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-124-0414
 Collection Date: 08-Apr-2014 11:40

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-21
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:48
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:48
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:48
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:48
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:48
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:48
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 16:48
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 16:48
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:48
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 16:48
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:48
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:48
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 16:48
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-124-0414
 Collection Date: 08-Apr-2014 11:40

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-21
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:48
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:48
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 16:48
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 16:48
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	18-Apr-2014 16:48
Surr: 4-Bromofluorobenzene	98.8			72-125	%REC	1	18-Apr-2014 16:48
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 16:48
Surr: Toluene-d8	96.9			75-125	%REC	1	18-Apr-2014 16:48
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.00952	J	0.00200	0.0100	mg/L	2	03-May-2014 05:36
Barium	0.0216		0.00180	0.0100	mg/L	2	03-May-2014 05:36
Calcium	798		0.670	5.00	mg/L	10	06-May-2014 01:09
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:36
Iron	2.48		0.100	0.400	mg/L	2	03-May-2014 05:36
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 05:36
Manganese	0.479		0.00500	0.0100	mg/L	2	03-May-2014 05:36
Potassium	6.94		0.100	0.400	mg/L	2	03-May-2014 05:36
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:36
Sodium	1,610		0.500	2.00	mg/L	10	06-May-2014 01:09
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	22-Apr-2014 16:14
Surr: 4-Bromofluorobenzene	98.4			70-130	%REC	1	22-Apr-2014 16:14
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	10,000		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	3,380		10.0	25.0	mg/L	50	26-Apr-2014 07:31
Fluoride	0.968		0.0500	0.100	mg/L	1	26-Apr-2014 12:51
Sulfate	3,800		10.0	25.0	mg/L	50	26-Apr-2014 07:31
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	16-Apr-2014 17:00
Surr: 2-Fluorobiphenyl	71.4			60-135	%REC	1	16-Apr-2014 17:00
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 11:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-124-0414-D
Collection Date: 08-Apr-2014 11:40

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-22
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.00439	J	0.00200	0.0100	mg/L	2	07-May-2014 20:19
Barium	0.0241		0.00180	0.0100	mg/L	2	07-May-2014 20:19
Chromium	U		0.00200	0.0100	mg/L	2	07-May-2014 20:19
Iron	0.613		0.156	0.400	mg/L	2	07-May-2014 20:19
Lead	U		0.00140	0.0100	mg/L	2	07-May-2014 20:19
Manganese	0.518		0.00500	0.0100	mg/L	2	07-May-2014 20:19
Selenium	U		0.00200	0.0100	mg/L	2	07-May-2014 20:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-88-0414
 Collection Date: 08-Apr-2014 12:45

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-23
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:12
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:12
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 17:12
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:12
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:12
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:12
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 17:12
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 17:12
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:12
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 17:12
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:12
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 17:12
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 17:12
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-88-0414
 Collection Date: 08-Apr-2014 12:45

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-23
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:12
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:12
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 17:12
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 17:12
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	18-Apr-2014 17:12
Surr: 4-Bromofluorobenzene	99.4			72-125	%REC	1	18-Apr-2014 17:12
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 17:12
Surr: Toluene-d8	97.4			75-125	%REC	1	18-Apr-2014 17:12
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.0106		0.00200	0.0100	mg/L	2	03-May-2014 05:40
Barium	0.0115		0.00180	0.0100	mg/L	2	03-May-2014 05:40
Calcium	377		0.670	5.00	mg/L	10	06-May-2014 01:14
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:40
Iron	U		0.100	0.400	mg/L	2	03-May-2014 05:40
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 05:40
Manganese	0.796		0.00500	0.0100	mg/L	2	03-May-2014 05:40
Potassium	3.11		0.100	0.400	mg/L	2	03-May-2014 05:40
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:40
Sodium	1,330		0.500	2.00	mg/L	10	06-May-2014 01:14
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	0.0497	J	0.0100	0.0500	mg/L	1	22-Apr-2014 16:30
Surr: 4-Bromofluorobenzene	97.3			70-130	%REC	1	22-Apr-2014 16:30
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	7,340		5.00	10.0	mg/L	1	14-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	2,000		10.0	25.0	mg/L	50	26-Apr-2014 07:45
Fluoride	1.26		0.0500	0.100	mg/L	1	26-Apr-2014 13:05
Sulfate	2,820		10.0	25.0	mg/L	50	26-Apr-2014 07:45
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.37		0.021	0.052	mg/L	1	16-Apr-2014 17:27
Surr: 2-Fluorobiphenyl	72.6			60-135	%REC	1	16-Apr-2014 17:27
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 11:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-88-0414-D
Collection Date: 08-Apr-2014 12:45

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-24
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0106		0.00200	0.0100	mg/L	2	07-May-2014 20:23
Barium	0.0130		0.00180	0.0100	mg/L	2	07-May-2014 20:23
Chromium	U		0.00200	0.0100	mg/L	2	07-May-2014 20:23
Iron	U		0.156	0.400	mg/L	2	07-May-2014 20:23
Lead	U		0.00140	0.0100	mg/L	2	07-May-2014 20:23
Manganese	0.914		0.00500	0.0100	mg/L	2	07-May-2014 20:23
Selenium	U		0.00200	0.0100	mg/L	2	07-May-2014 20:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-22A-0414
 Collection Date: 08-Apr-2014 13:15

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-25
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:36
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:36
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 17:36
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
2-Butanone	0.0070	J	0.0010	0.010	mg/L	1	18-Apr-2014 17:36
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:36
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:36
Acetone	0.019		0.0020	0.010	mg/L	1	18-Apr-2014 17:36
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 17:36
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:36
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 17:36
Methyl tert-butyl ether	0.0055		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:36
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 17:36
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 17:36
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-22A-0414
 Collection Date: 08-Apr-2014 13:15

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-25
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:36
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:36
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 17:36
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 17:36
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	18-Apr-2014 17:36
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	18-Apr-2014 17:36
Surr: Dibromofluoromethane	98.9			71-125	%REC	1	18-Apr-2014 17:36
Surr: Toluene-d8	99.6			75-125	%REC	1	18-Apr-2014 17:36
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.0568		0.00200	0.0100	mg/L	2	03-May-2014 05:45
Barium	0.0153		0.00180	0.0100	mg/L	2	03-May-2014 05:45
Calcium	514		0.670	5.00	mg/L	10	06-May-2014 01:19
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:45
Iron	2.19		0.100	0.400	mg/L	2	03-May-2014 05:45
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 05:45
Manganese	3.61		0.0250	0.0500	mg/L	10	06-May-2014 01:19
Potassium	4.02		0.100	0.400	mg/L	2	03-May-2014 05:45
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 05:45
Sodium	1,290		0.500	2.00	mg/L	10	06-May-2014 01:19
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	3.46		0.0100	0.0500	mg/L	1	22-Apr-2014 16:46
Surr: 4-Bromofluorobenzene	128			70-130	%REC	1	22-Apr-2014 16:46
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	6,640		5.00	10.0	mg/L	1	15-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	2,290		10.0	25.0	mg/L	50	26-Apr-2014 08:00
Fluoride	0.766		0.0500	0.100	mg/L	1	26-Apr-2014 13:20
Sulfate	2,540		10.0	25.0	mg/L	50	26-Apr-2014 08:00
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	5.8		0.021	0.052	mg/L	1	16-Apr-2014 17:53
Surr: 2-Fluorobiphenyl	121			60-135	%REC	1	16-Apr-2014 17:53
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 12:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-22A-0414-D
Collection Date: 08-Apr-2014 13:15

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-26
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0418		0.00200	0.0100	mg/L	2	07-May-2014 21:57
Barium	0.0154		0.00180	0.0100	mg/L	2	07-May-2014 21:57
Chromium	U		0.00200	0.0100	mg/L	2	07-May-2014 21:57
Iron	0.271	J	0.156	0.400	mg/L	2	07-May-2014 21:57
Lead	U		0.00140	0.0100	mg/L	2	07-May-2014 21:57
Manganese	3.58		0.0250	0.0500	mg/L	10	08-May-2014 21:33
Selenium	0.00322	J	0.00200	0.0100	mg/L	2	07-May-2014 21:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-10-0414
 Collection Date: 08-Apr-2014 13:45

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-27
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:00
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:00
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:00
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:00
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:00
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:00
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 18:00
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 18:00
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:00
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 18:00
Methyl tert-butyl ether	0.0020	J	0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:00
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:00
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 18:00
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-10-0414
 Collection Date: 08-Apr-2014 13:45

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-27
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:00
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:00
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 18:00
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 18:00
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	18-Apr-2014 18:00
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	18-Apr-2014 18:00
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 18:00
Surr: Toluene-d8	99.1			75-125	%REC	1	18-Apr-2014 18:00
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.0211		0.00200	0.0100	mg/L	2	03-May-2014 07:19
Barium	0.0134		0.00180	0.0100	mg/L	2	03-May-2014 07:19
Calcium	545		0.670	5.00	mg/L	10	06-May-2014 01:24
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 07:19
Iron	U		0.100	0.400	mg/L	2	03-May-2014 07:19
Lead	U		0.00140	0.0100	mg/L	2	06-May-2014 03:54
Manganese	2.70		0.00500	0.0100	mg/L	2	03-May-2014 07:19
Potassium	4.06		0.100	0.400	mg/L	2	03-May-2014 07:19
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 07:19
Sodium	1,060		0.500	2.00	mg/L	10	06-May-2014 01:24
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	1.08		0.0100	0.0500	mg/L	1	22-Apr-2014 17:02
Surr: 4-Bromofluorobenzene	105			70-130	%REC	1	22-Apr-2014 17:02
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,540		5.00	10.0	mg/L	1	15-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	1,660		10.0	25.0	mg/L	50	26-Apr-2014 08:14
Fluoride	0.551		0.0500	0.100	mg/L	1	26-Apr-2014 13:35
Sulfate	2,290		10.0	25.0	mg/L	50	26-Apr-2014 08:14
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	2.0		0.021	0.052	mg/L	1	16-Apr-2014 18:19
Surr: 2-Fluorobiphenyl	120			60-135	%REC	1	16-Apr-2014 18:19
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 12:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-10-0414-D
Collection Date: 08-Apr-2014 13:45

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-28
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0195		0.00200	0.0100	mg/L	2	07-May-2014 22:02
Barium	0.0114		0.00180	0.0100	mg/L	2	07-May-2014 22:02
Chromium	U		0.00200	0.0100	mg/L	2	07-May-2014 22:02
Iron	U		0.156	0.400	mg/L	2	07-May-2014 22:02
Lead	U		0.00140	0.0100	mg/L	2	07-May-2014 22:02
Manganese	2.75		0.00500	0.0100	mg/L	2	07-May-2014 22:02
Selenium	U		0.00200	0.0100	mg/L	2	07-May-2014 22:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-27-0414
 Collection Date: 09-Apr-2014 08:00

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-29
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 12:53
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 12:53
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 12:53
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 12:53
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 12:53
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 12:53
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 12:53
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 12:53
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 12:53
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 12:53
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 12:53
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 12:53
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 12:53
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 12:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-27-0414
 Collection Date: 09-Apr-2014 08:00

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-29
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 12:53
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 12:53
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 12:53
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 12:53
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	18-Apr-2014 12:53
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	18-Apr-2014 12:53
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 12:53
Surr: Toluene-d8	97.7			75-125	%REC	1	18-Apr-2014 12:53
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.00249	J	0.00100	0.00500	mg/L	1	06-May-2014 04:03
Barium	0.0166		0.000900	0.00500	mg/L	1	06-May-2014 04:03
Calcium	431		0.670	5.00	mg/L	10	06-May-2014 01:29
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 04:03
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 04:03
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 04:03
Manganese	0.00554		0.00250	0.00500	mg/L	1	06-May-2014 04:03
Potassium	9.89		0.0500	0.200	mg/L	1	06-May-2014 04:03
Selenium	0.0192		0.00100	0.00500	mg/L	1	06-May-2014 04:03
Sodium	159		0.500	2.00	mg/L	10	06-May-2014 01:29
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,600		5.00	10.0	mg/L	1	16-Apr-2014 17:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	148		10.0	25.0	mg/L	50	26-Apr-2014 08:29
Fluoride	0.983		0.0500	0.100	mg/L	1	26-Apr-2014 13:49
Sulfate	1,600		10.0	25.0	mg/L	50	26-Apr-2014 08:29
TPH DRO/ORO BY SW8015C			Method:SW8015M			Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	17-Apr-2014 17:27
Surr: 2-Fluorobiphenyl	62.0			60-135	%REC	1	17-Apr-2014 17:27
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	0.632	J	0.150	1.00	mg/L	5	26-Apr-2014 12:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-27-0414-D
Collection Date: 09-Apr-2014 08:00

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-30
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.00355	J	0.00100	0.00500	mg/L	1	07-May-2014 22:07
Barium	0.0150		0.000900	0.00500	mg/L	1	07-May-2014 22:07
Chromium	U		0.00100	0.00500	mg/L	1	07-May-2014 22:07
Iron	U		0.0780	0.200	mg/L	1	07-May-2014 22:07
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 22:07
Manganese	0.00617		0.00250	0.00500	mg/L	1	07-May-2014 22:07
Selenium	0.0193		0.00100	0.00500	mg/L	1	07-May-2014 22:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-89-0414
 Collection Date: 09-Apr-2014 08:35

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-31
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:24
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:24
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:24
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:24
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:24
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:24
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 18:24
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 18:24
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:24
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 18:24
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:24
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:24
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 18:24
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-89-0414
 Collection Date: 09-Apr-2014 08:35

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-31
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:24
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:24
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 18:24
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 18:24
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	18-Apr-2014 18:24
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	18-Apr-2014 18:24
Surr: Dibromofluoromethane	98.9			71-125	%REC	1	18-Apr-2014 18:24
Surr: Toluene-d8	96.8			75-125	%REC	1	18-Apr-2014 18:24
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: ALR	
Arsenic	0.0128		0.00100	0.00500	mg/L	1	06-May-2014 04:08
Barium	0.0140		0.000900	0.00500	mg/L	1	06-May-2014 04:08
Calcium	542		0.670	5.00	mg/L	10	06-May-2014 01:34
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 04:08
Iron	0.195	J	0.0500	0.200	mg/L	1	06-May-2014 04:08
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 04:08
Manganese	0.537		0.0250	0.0500	mg/L	10	06-May-2014 01:34
Potassium	10.5		0.100	0.400	mg/L	2	03-May-2014 07:29
Selenium	0.0188		0.00100	0.00500	mg/L	1	06-May-2014 04:08
Sodium	188		0.500	2.00	mg/L	10	06-May-2014 01:34
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	3,360		5.00	10.0	mg/L	1	16-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	248		10.0	25.0	mg/L	50	26-Apr-2014 08:44
Fluoride	2.40		0.0500	0.100	mg/L	1	26-Apr-2014 14:04
Sulfate	2,030		10.0	25.0	mg/L	50	26-Apr-2014 08:44
TPH DRO/ORO BY SW8015C		Method:SW8015M				Analyst: RPM	
TPH (Diesel Range)	0.21		0.020	0.051	mg/L	1	17-Apr-2014 17:53
Surr: 2-Fluorobiphenyl	71.8			60-135	%REC	1	17-Apr-2014 17:53
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	1.34		0.150	1.00	mg/L	5	26-Apr-2014 13:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-89-0414-D
Collection Date: 09-Apr-2014 08:35

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-32
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.00959		0.00100	0.00500	mg/L	1	08-May-2014 21:38
Barium	0.0135		0.000900	0.00500	mg/L	1	07-May-2014 22:17
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 21:38
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 21:38
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 22:17
Manganese	0.528		0.00250	0.00500	mg/L	1	08-May-2014 21:38
Selenium	0.0182		0.00100	0.00500	mg/L	1	08-May-2014 21:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: EB-7-0414
 Collection Date: 09-Apr-2014 09:05

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-33
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:00
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:00
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:00
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:00
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:00
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:00
Acetone	0.0030	J	0.0020	0.010	mg/L	1	18-Apr-2014 16:00
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 16:00
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:00
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 16:00
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:00
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:00
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 16:00
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: EB-7-0414
 Collection Date: 09-Apr-2014 09:05

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-33
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:00
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:00
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 16:00
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 16:00
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	18-Apr-2014 16:00
Surr: 4-Bromofluorobenzene	99.3			72-125	%REC	1	18-Apr-2014 16:00
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 16:00
Surr: Toluene-d8	97.8			75-125	%REC	1	18-Apr-2014 16:00
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014 Analyst: SKS			
Arsenic	U		0.00100	0.00500	mg/L	1	05-May-2014 12:13
Barium	U		0.000900	0.00500	mg/L	1	05-May-2014 12:13
Calcium	U		0.0670	0.500	mg/L	1	05-May-2014 12:13
Chromium	U		0.00100	0.00500	mg/L	1	05-May-2014 12:13
Iron	U		0.0500	0.200	mg/L	1	05-May-2014 12:13
Lead	U		0.000700	0.00500	mg/L	1	05-May-2014 12:13
Manganese	U		0.00250	0.00500	mg/L	1	05-May-2014 12:13
Nickel	U		0.00100	0.00500	mg/L	1	05-May-2014 12:13
Potassium	U		0.0500	0.200	mg/L	1	05-May-2014 12:13
Selenium	U		0.00100	0.00500	mg/L	1	05-May-2014 12:13
Sodium	U		0.0500	0.200	mg/L	1	05-May-2014 12:13
Vanadium	U		0.000900	0.00500	mg/L	1	05-May-2014 12:13
CYANIDE BY SW9012B		Method:SW9012		Prep:SW9010C / 21-Apr-2014 Analyst: KKB			
Cyanide	U		0.00500	0.0200	mg/L	1	26-Apr-2014 12:43
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	23-Apr-2014 13:40
Surr: 4-Bromofluorobenzene	117			70-130	%REC	1	23-Apr-2014 13:40
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014 Analyst: JCJ			
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:56
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	U		5.00	10.0	mg/L	1	16-Apr-2014 17:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	U		0.200	0.500	mg/L	1	23-Apr-2014 23:59
Fluoride	U		0.0500	0.100	mg/L	1	23-Apr-2014 23:59
Sulfate	U		0.200	0.500	mg/L	1	23-Apr-2014 23:59
TPH DRO/ORO BY SW8015C		Method:SW8015M		Analyst: RPM			
TPH (Diesel Range)	U		0.021	0.053	mg/L	1	17-Apr-2014 18:20
Surr: 2-Fluorobiphenyl	60.3			60-135	%REC	1	17-Apr-2014 18:20
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: EB-7-0414-D
 Collection Date: 09-Apr-2014 09:05

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-34
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	07-May-2014 22:22
Barium	U		0.000900	0.00500	mg/L	1	07-May-2014 22:22
Chromium	U		0.00100	0.00500	mg/L	1	07-May-2014 22:22
Iron	U		0.0780	0.200	mg/L	1	07-May-2014 22:22
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 22:22
Manganese	U		0.00250	0.00500	mg/L	1	07-May-2014 22:22
Nickel	U		0.00100	0.00500	mg/L	1	07-May-2014 22:22
Selenium	U		0.00100	0.00500	mg/L	1	07-May-2014 22:22
Vanadium	U		0.000900	0.00500	mg/L	1	07-May-2014 22:22
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 23-Apr-2014		Analyst: OFO	
Mercury	0.00306		0.0000420	0.000200	mg/L	1	23-Apr-2014 18:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-16-0414
 Collection Date: 09-Apr-2014 09:30

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-35
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:48
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:48
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:48
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:48
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:48
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:48
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 18:48
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 18:48
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:48
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 18:48
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:48
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:48
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 18:48
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-16-0414
 Collection Date: 09-Apr-2014 09:30

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-35
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:48
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:48
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 18:48
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 18:48
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	18-Apr-2014 18:48
Surr: 4-Bromofluorobenzene	100.0			72-125	%REC	1	18-Apr-2014 18:48
Surr: Dibromofluoromethane	102			71-125	%REC	1	18-Apr-2014 18:48
Surr: Toluene-d8	97.9			75-125	%REC	1	18-Apr-2014 18:48
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: SKS	
Arsenic	0.00470	J	0.00200	0.0100	mg/L	2	03-May-2014 04:05
Barium	0.0151		0.00180	0.0100	mg/L	2	03-May-2014 04:05
Calcium	531		1.34	10.0	mg/L	20	05-May-2014 12:17
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 04:05
Iron	U		0.100	0.400	mg/L	2	03-May-2014 04:05
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 04:05
Manganese	0.244		0.00500	0.0100	mg/L	2	03-May-2014 04:05
Potassium	8.99		0.100	0.400	mg/L	2	03-May-2014 04:05
Selenium	0.00322	J	0.00200	0.0100	mg/L	2	03-May-2014 04:05
Sodium	388		1.00	4.00	mg/L	20	05-May-2014 12:17
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	4,020		5.00	10.0	mg/L	1	16-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	422		1.00	2.50	mg/L	5	25-Apr-2014 01:29
Fluoride	2.79		0.0500	0.100	mg/L	1	24-Apr-2014 00:24
Sulfate	2,170		10.0	25.0	mg/L	50	26-Apr-2014 02:54
TPH DRO/ORO BY SW8015C		Method:SW8015M				Analyst: RPM	
TPH (Diesel Range)	0.058		0.021	0.052	mg/L	1	17-Apr-2014 18:46
Surr: 2-Fluorobiphenyl	72.5			60-135	%REC	1	17-Apr-2014 18:46
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	0.269	J	0.150	1.00	mg/L	5	26-Apr-2014 14:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-16-0414-D
Collection Date: 09-Apr-2014 09:30

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-36
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.00546		0.00100	0.00500	mg/L	1	08-May-2014 21:48
Barium	0.0144		0.000900	0.00500	mg/L	1	07-May-2014 22:37
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 21:48
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 21:48
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 22:37
Manganese	0.125		0.00250	0.00500	mg/L	1	08-May-2014 21:48
Selenium	U		0.00100	0.00500	mg/L	1	08-May-2014 21:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-26-0414
 Collection Date: 09-Apr-2014 10:05

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-37
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:11
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:11
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:11
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:11
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:11
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:11
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 19:11
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 19:11
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:11
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 19:11
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:11
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:11
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 19:11
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-26-0414
 Collection Date: 09-Apr-2014 10:05

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-37
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:11
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:11
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 19:11
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 19:11
Surr: 1,2-Dichloroethane-d4	104			70-125	%REC	1	18-Apr-2014 19:11
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	18-Apr-2014 19:11
Surr: Dibromofluoromethane	100			71-125	%REC	1	18-Apr-2014 19:11
Surr: Toluene-d8	98.2			75-125	%REC	1	18-Apr-2014 19:11
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: SKS	
Arsenic	0.00413	J	0.00200	0.0100	mg/L	2	03-May-2014 04:09
Barium	0.00878	J	0.00180	0.0100	mg/L	2	03-May-2014 04:09
Calcium	718		1.34	10.0	mg/L	20	05-May-2014 12:22
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 04:09
Iron	U		0.100	0.400	mg/L	2	03-May-2014 04:09
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 04:09
Manganese	0.731		0.00500	0.0100	mg/L	2	03-May-2014 04:09
Potassium	6.01		0.100	0.400	mg/L	2	03-May-2014 04:09
Selenium	0.0241		0.00200	0.0100	mg/L	2	03-May-2014 04:09
Sodium	662		1.00	4.00	mg/L	20	05-May-2014 12:22
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	8,280		5.00	10.0	mg/L	1	16-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	953		20.0	50.0	mg/L	100	25-Apr-2014 01:53
Fluoride	2.16		0.0500	0.100	mg/L	1	24-Apr-2014 01:36
Sulfate	4,330		20.0	50.0	mg/L	100	25-Apr-2014 01:53
TPH DRO/ORO BY SW8015C		Method:SW8015M				Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	17-Apr-2014 20:04
Surr: 2-Fluorobiphenyl	64.9			60-135	%REC	1	17-Apr-2014 20:04
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	0.252	J	0.150	1.00	mg/L	5	26-Apr-2014 14:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-26-0414-D
Collection Date: 09-Apr-2014 10:05

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-38
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.00617	J	0.00200	0.0100	mg/L	2	07-May-2014 22:42
Barium	0.00866	J	0.00180	0.0100	mg/L	2	07-May-2014 22:42
Chromium	U		0.00200	0.0100	mg/L	2	07-May-2014 22:42
Iron	U		0.156	0.400	mg/L	2	07-May-2014 22:42
Lead	U		0.00140	0.0100	mg/L	2	07-May-2014 22:42
Manganese	0.520		0.00500	0.0100	mg/L	2	07-May-2014 22:42
Selenium	0.0309		0.00200	0.0100	mg/L	2	07-May-2014 22:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-17-0414
 Collection Date: 09-Apr-2014 10:45

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-39
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: SKS	
Arsenic	U		0.00200	0.0100	mg/L	2	03-May-2014 04:14
Barium	0.0152		0.00180	0.0100	mg/L	2	03-May-2014 04:14
Calcium	395		1.34	10.0	mg/L	20	05-May-2014 12:27
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 04:14
Iron	U		0.100	0.400	mg/L	2	03-May-2014 04:14
Lead	0.00724	J	0.00140	0.0100	mg/L	2	03-May-2014 04:14
Manganese	U		0.00500	0.0100	mg/L	2	03-May-2014 04:14
Potassium	2.31		0.100	0.400	mg/L	2	03-May-2014 04:14
Selenium	0.0104		0.00200	0.0100	mg/L	2	03-May-2014 04:14
Sodium	72.2		0.100	0.400	mg/L	2	03-May-2014 04:14
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,340		5.00	10.0	mg/L	1	16-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	174		1.00	2.50	mg/L	5	25-Apr-2014 02:18
Fluoride	1.19		0.0500	0.100	mg/L	1	24-Apr-2014 02:00
Sulfate	1,200		10.0	25.0	mg/L	50	26-Apr-2014 03:09
TPH DRO/ORO BY SW8015C		Method:SW8015M				Analyst: RPM	
TPH (Diesel Range)	0.038	J	0.021	0.051	mg/L	1	17-Apr-2014 20:31
Surr: 2-Fluorobiphenyl	68.5			60-135	%REC	1	17-Apr-2014 20:31
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	2.19		0.150	1.00	mg/L	5	26-Apr-2014 14:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-17-0414-D
Collection Date: 09-Apr-2014 10:45

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-40
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.00217	J	0.00100	0.00500	mg/L	1	07-May-2014 22:52
Barium	0.0139		0.000900	0.00500	mg/L	1	07-May-2014 22:52
Chromium	0.00184	J	0.00100	0.00500	mg/L	1	07-May-2014 22:52
Iron	U		0.0780	0.200	mg/L	1	07-May-2014 22:52
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 22:52
Manganese	U		0.00250	0.00500	mg/L	1	07-May-2014 22:52
Selenium	0.00918		0.00100	0.00500	mg/L	1	07-May-2014 22:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: Trip Blank 032814-13
 Collection Date: 09-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-41
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 15:38
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 15:38
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 15:38
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 15:38
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 15:38
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 15:38
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 15:38
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 15:38
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 15:38
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 15:38
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 15:38
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 15:38
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 15:38
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 15:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: Trip Blank 032814-13
Collection Date: 09-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-41
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 15:38
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 15:38
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 15:38
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 15:38
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	18-Apr-2014 15:38
Surr: 4-Bromofluorobenzene	100			72-125	%REC	1	18-Apr-2014 15:38
Surr: Dibromofluoromethane	102			71-125	%REC	1	18-Apr-2014 15:38
Surr: Toluene-d8	97.5			75-125	%REC	1	18-Apr-2014 15:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-123-0414
 Collection Date: 08-Apr-2014 14:15

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-42
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:35
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:35
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:35
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:35
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:35
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:35
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 19:35
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 19:35
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:35
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 19:35
Methyl tert-butyl ether	0.0014	J	0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:35
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:35
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 19:35
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA-Artesia Refinery -Sitewide GW
 Sample ID: MW-123-0414
 Collection Date: 08-Apr-2014 14:15

ANALYTICAL REPORT

WorkOrder:HS14040557
 Lab ID:HS14040557-42
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:35
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:35
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 19:35
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 19:35
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	18-Apr-2014 19:35
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	18-Apr-2014 19:35
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 19:35
Surr: Toluene-d8	99.1			75-125	%REC	1	18-Apr-2014 19:35
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 25-Apr-2014 Analyst: SKS	
Arsenic	0.0226		0.00200	0.0100	mg/L	2	03-May-2014 04:19
Barium	0.0175		0.00180	0.0100	mg/L	2	03-May-2014 04:19
Calcium	539		1.34	10.0	mg/L	20	05-May-2014 12:31
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 04:19
Iron	0.102	J	0.100	0.400	mg/L	2	03-May-2014 04:19
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 04:19
Manganese	2.66		0.00500	0.0100	mg/L	2	03-May-2014 04:19
Potassium	4.25		0.100	0.400	mg/L	2	03-May-2014 04:19
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 04:19
Sodium	1,170		1.00	4.00	mg/L	20	05-May-2014 12:31
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	22-Apr-2014 19:41
Surr: 4-Bromofluorobenzene	98.9			70-130	%REC	1	22-Apr-2014 19:41
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,900		5.00	10.0	mg/L	1	15-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	1,680		10.0	25.0	mg/L	50	26-Apr-2014 03:24
Fluoride	1.21		0.0500	0.100	mg/L	1	24-Apr-2014 02:24
Sulfate	2,050		10.0	25.0	mg/L	50	26-Apr-2014 03:24
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 14-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	2.8		0.021	0.052	mg/L	1	16-Apr-2014 18:45
Surr: 2-Fluorobiphenyl	95.2			60-135	%REC	1	16-Apr-2014 18:45
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	26-Apr-2014 16:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Sample ID: MW-123-0414-D
Collection Date: 08-Apr-2014 14:15

ANALYTICAL REPORT

WorkOrder:HS14040557
Lab ID:HS14040557-43
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 24-Apr-2014		Analyst: ALR	
Arsenic	0.0276		0.00200	0.0100	mg/L	2	07-May-2014 22:56
Barium	0.0207		0.00180	0.0100	mg/L	2	07-May-2014 22:56
Chromium	U		0.00200	0.0100	mg/L	2	07-May-2014 22:56
Iron	U		0.156	0.400	mg/L	2	07-May-2014 22:56
Lead	U		0.00140	0.0100	mg/L	2	07-May-2014 22:56
Manganese	2.94		0.00500	0.0100	mg/L	2	07-May-2014 22:56
Selenium	U		0.00200	0.0100	mg/L	2	07-May-2014 22:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
WorkOrder: HS14040557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 80756	Test Name : TPH DRO/ORO BY SW8015C			Matrix: Water		
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35		14 Apr 2014 09:00	16 Apr 2014 11:46	1
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05		14 Apr 2014 09:00	16 Apr 2014 12:12	1
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35		14 Apr 2014 09:00	16 Apr 2014 12:39	1
HS14040557-07	EB-5-0414	07 Apr 2014 15:30		14 Apr 2014 09:00	16 Apr 2014 13:05	1
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00		14 Apr 2014 09:00	16 Apr 2014 13:31	1
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00		14 Apr 2014 09:00	16 Apr 2014 13:57	1
HS14040557-13	EB-6-0414	08 Apr 2014 09:25		14 Apr 2014 09:00	16 Apr 2014 15:16	1
HS14040557-15	MW-87-0414	08 Apr 2014 09:45		14 Apr 2014 09:00	16 Apr 2014 15:42	1
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25		14 Apr 2014 09:00	16 Apr 2014 16:08	1
HS14040557-19	MW-70-0414	08 Apr 2014 11:10		14 Apr 2014 09:00	16 Apr 2014 16:34	1
HS14040557-21	MW-124-0414	08 Apr 2014 11:40		14 Apr 2014 09:00	16 Apr 2014 17:00	1
HS14040557-23	MW-88-0414	08 Apr 2014 12:45		14 Apr 2014 09:00	16 Apr 2014 17:27	1
HS14040557-25	MW-22A-0414	08 Apr 2014 13:15		14 Apr 2014 09:00	16 Apr 2014 17:53	1
HS14040557-27	MW-10-0414	08 Apr 2014 13:45		14 Apr 2014 09:00	16 Apr 2014 18:19	1
HS14040557-42	MW-123-0414	08 Apr 2014 14:15		14 Apr 2014 09:00	16 Apr 2014 18:45	1
Batch ID 80838A	Test Name : TPH DRO/ORO BY SW8015C			Matrix: Water		
HS14040557-29	MW-27-0414	09 Apr 2014 08:00		16 Apr 2014 09:00	17 Apr 2014 17:27	1
HS14040557-31	MW-89-0414	09 Apr 2014 08:35		16 Apr 2014 09:00	17 Apr 2014 17:53	1
HS14040557-33	EB-7-0414	09 Apr 2014 09:05		16 Apr 2014 09:00	17 Apr 2014 18:20	1
HS14040557-35	MW-16-0414	09 Apr 2014 09:30		16 Apr 2014 09:00	17 Apr 2014 18:46	1
HS14040557-37	MW-26-0414	09 Apr 2014 10:05		16 Apr 2014 09:00	17 Apr 2014 20:04	1
HS14040557-39	MW-17-0414	09 Apr 2014 10:45		16 Apr 2014 09:00	17 Apr 2014 20:31	1
Batch ID 80929	Test Name : DISSOLVED MERCURY BY SW7470A			Matrix: Water		
HS14040557-08	EB-5-0414-D	07 Apr 2014 15:30		18 Apr 2014 13:12	18 Apr 2014 19:45	1
HS14040557-10	OCD-8A-0414-D	08 Apr 2014 09:00		18 Apr 2014 13:12	18 Apr 2014 19:47	1
HS14040557-12	DUP-4-0414-D	08 Apr 2014 00:00		18 Apr 2014 13:12	18 Apr 2014 19:48	1
HS14040557-14	EB-6-0414-D	08 Apr 2014 09:25		18 Apr 2014 13:12	18 Apr 2014 19:50	1
HS14040557-18	MW-18A-0414-D	08 Apr 2014 10:25		18 Apr 2014 13:12	18 Apr 2014 19:52	1
Batch ID 81075	Test Name : DISSOLVED MERCURY BY SW7470A			Matrix: Water		
HS14040557-34	EB-7-0414-D	09 Apr 2014 09:05		23 Apr 2014 10:39	23 Apr 2014 18:44	1
Batch ID 81156	Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water		
HS14040557-02	MW-4A-0414-D	07 Apr 2014 12:35		24 Apr 2014 11:00	25 Apr 2014 16:25	2
HS14040557-02	MW-4A-0414-D	07 Apr 2014 12:35		24 Apr 2014 11:00	25 Apr 2014 04:54	2

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
WorkOrder: HS14040557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81157	Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water		
HS14040557-04	MW-5A-0414-D	07 Apr 2014 13:05		24 Apr 2014 11:00	06 May 2014 23:34	5
HS14040557-06	MW-7A-0414-D	07 Apr 2014 13:35		24 Apr 2014 11:00	07 May 2014 19:15	2
HS14040557-08	EB-5-0414-D	07 Apr 2014 15:30		24 Apr 2014 11:00	07 May 2014 19:20	1
HS14040557-10	OCD-8A-0414-D	08 Apr 2014 09:00		24 Apr 2014 11:00	07 May 2014 19:30	2
HS14040557-12	DUP-4-0414-D	08 Apr 2014 00:00		24 Apr 2014 11:00	07 May 2014 19:35	2
HS14040557-14	EB-6-0414-D	08 Apr 2014 09:25		24 Apr 2014 11:00	07 May 2014 19:50	1
HS14040557-16	MW-87-0414-D	08 Apr 2014 09:45		24 Apr 2014 11:00	07 May 2014 19:58	5
HS14040557-18	MW-18A-0414-D	08 Apr 2014 10:25		24 Apr 2014 11:00	07 May 2014 20:03	10
HS14040557-20	MW-70-0414-D	08 Apr 2014 11:10		24 Apr 2014 11:00	07 May 2014 20:14	1
HS14040557-22	MW-124-0414-D	08 Apr 2014 11:40		24 Apr 2014 11:00	07 May 2014 20:19	2
HS14040557-24	MW-88-0414-D	08 Apr 2014 12:45		24 Apr 2014 11:00	07 May 2014 20:23	2
HS14040557-26	MW-22A-0414-D	08 Apr 2014 13:15		24 Apr 2014 11:00	08 May 2014 21:33	10
HS14040557-26	MW-22A-0414-D	08 Apr 2014 13:15		24 Apr 2014 11:00	07 May 2014 21:57	2
HS14040557-28	MW-10-0414-D	08 Apr 2014 13:45		24 Apr 2014 11:00	07 May 2014 22:02	2
HS14040557-30	MW-27-0414-D	09 Apr 2014 08:00		24 Apr 2014 11:00	07 May 2014 22:07	1
HS14040557-32	MW-89-0414-D	09 Apr 2014 08:35		24 Apr 2014 11:00	08 May 2014 21:38	1
HS14040557-32	MW-89-0414-D	09 Apr 2014 08:35		24 Apr 2014 11:00	07 May 2014 22:17	1
HS14040557-34	EB-7-0414-D	09 Apr 2014 09:05		24 Apr 2014 11:00	07 May 2014 22:22	1
HS14040557-36	MW-16-0414-D	09 Apr 2014 09:30		24 Apr 2014 11:00	08 May 2014 21:48	1
HS14040557-36	MW-16-0414-D	09 Apr 2014 09:30		24 Apr 2014 11:00	07 May 2014 22:37	1
HS14040557-38	MW-26-0414-D	09 Apr 2014 10:05		24 Apr 2014 11:00	07 May 2014 22:42	2
HS14040557-40	MW-17-0414-D	09 Apr 2014 10:45		24 Apr 2014 11:00	07 May 2014 22:52	1
HS14040557-43	MW-123-0414-D	08 Apr 2014 14:15		24 Apr 2014 11:00	07 May 2014 22:56	2

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
WorkOrder: HS14040557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81208	Test Name : ICP-MS METALS BY SW6020A			Matrix: Water		
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35		25 Apr 2014 10:00	06 May 2014 01:54	2
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35		25 Apr 2014 10:00	05 May 2014 22:35	10
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35		25 Apr 2014 10:00	03 May 2014 04:00	2
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05		25 Apr 2014 10:00	06 May 2014 19:58	100
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05		25 Apr 2014 10:00	06 May 2014 03:09	5
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05		25 Apr 2014 10:00	05 May 2014 22:55	10
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35		25 Apr 2014 10:00	06 May 2014 03:14	2
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35		25 Apr 2014 10:00	06 May 2014 00:29	10
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35		25 Apr 2014 10:00	03 May 2014 04:46	2
HS14040557-07	EB-5-0414	07 Apr 2014 15:30		25 Apr 2014 10:00	06 May 2014 03:24	1
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00		25 Apr 2014 10:00	06 May 2014 20:13	100
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00		25 Apr 2014 10:00	06 May 2014 00:34	10
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00		25 Apr 2014 10:00	03 May 2014 04:56	2
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00		25 Apr 2014 10:00	06 May 2014 20:18	100
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00		25 Apr 2014 10:00	06 May 2014 00:39	10
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00		25 Apr 2014 10:00	03 May 2014 05:01	2
HS14040557-13	EB-6-0414	08 Apr 2014 09:25		25 Apr 2014 10:00	06 May 2014 03:29	1
HS14040557-15	MW-87-0414	08 Apr 2014 09:45		25 Apr 2014 10:00	06 May 2014 20:23	100
HS14040557-15	MW-87-0414	08 Apr 2014 09:45		25 Apr 2014 10:00	06 May 2014 00:44	10
HS14040557-15	MW-87-0414	08 Apr 2014 09:45		25 Apr 2014 10:00	03 May 2014 05:21	2
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25		25 Apr 2014 10:00	06 May 2014 20:28	100
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25		25 Apr 2014 10:00	06 May 2014 20:03	10
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25		25 Apr 2014 10:00	06 May 2014 00:49	10
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25		25 Apr 2014 10:00	03 May 2014 05:26	2
HS14040557-19	MW-70-0414	08 Apr 2014 11:10		25 Apr 2014 10:00	06 May 2014 00:54	10
HS14040557-19	MW-70-0414	08 Apr 2014 11:10		25 Apr 2014 10:00	03 May 2014 05:31	2
HS14040557-21	MW-124-0414	08 Apr 2014 11:40		25 Apr 2014 10:00	06 May 2014 01:09	10
HS14040557-21	MW-124-0414	08 Apr 2014 11:40		25 Apr 2014 10:00	03 May 2014 05:36	2
HS14040557-23	MW-88-0414	08 Apr 2014 12:45		25 Apr 2014 10:00	06 May 2014 01:14	10
HS14040557-23	MW-88-0414	08 Apr 2014 12:45		25 Apr 2014 10:00	03 May 2014 05:40	2
HS14040557-25	MW-22A-0414	08 Apr 2014 13:15		25 Apr 2014 10:00	06 May 2014 01:19	10
HS14040557-25	MW-22A-0414	08 Apr 2014 13:15		25 Apr 2014 10:00	03 May 2014 05:45	2
HS14040557-27	MW-10-0414	08 Apr 2014 13:45		25 Apr 2014 10:00	06 May 2014 03:54	2
HS14040557-27	MW-10-0414	08 Apr 2014 13:45		25 Apr 2014 10:00	06 May 2014 01:24	10
HS14040557-27	MW-10-0414	08 Apr 2014 13:45		25 Apr 2014 10:00	03 May 2014 07:19	2
HS14040557-29	MW-27-0414	09 Apr 2014 08:00		25 Apr 2014 10:00	06 May 2014 04:03	1
HS14040557-29	MW-27-0414	09 Apr 2014 08:00		25 Apr 2014 10:00	06 May 2014 01:29	10
HS14040557-31	MW-89-0414	09 Apr 2014 08:35		25 Apr 2014 10:00	06 May 2014 04:08	1
HS14040557-31	MW-89-0414	09 Apr 2014 08:35		25 Apr 2014 10:00	06 May 2014 01:34	10
HS14040557-31	MW-89-0414	09 Apr 2014 08:35		25 Apr 2014 10:00	03 May 2014 07:29	2

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
WorkOrder: HS14040557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81212 Test Name : ICP-MS METALS BY SW6020A Matrix: Water						
HS14040557-33	EB-7-0414	09 Apr 2014 09:05		25 Apr 2014 11:00	05 May 2014 12:13	1
HS14040557-35	MW-16-0414	09 Apr 2014 09:30		25 Apr 2014 11:00	05 May 2014 12:17	20
HS14040557-35	MW-16-0414	09 Apr 2014 09:30		25 Apr 2014 11:00	03 May 2014 04:05	2
HS14040557-37	MW-26-0414	09 Apr 2014 10:05		25 Apr 2014 11:00	05 May 2014 12:22	20
HS14040557-37	MW-26-0414	09 Apr 2014 10:05		25 Apr 2014 11:00	03 May 2014 04:09	2
HS14040557-39	MW-17-0414	09 Apr 2014 10:45		25 Apr 2014 11:00	05 May 2014 12:27	20
HS14040557-39	MW-17-0414	09 Apr 2014 10:45		25 Apr 2014 11:00	03 May 2014 04:14	2
HS14040557-42	MW-123-0414	08 Apr 2014 14:15		25 Apr 2014 11:00	05 May 2014 12:31	20
HS14040557-42	MW-123-0414	08 Apr 2014 14:15		25 Apr 2014 11:00	03 May 2014 04:19	2
Batch ID 81311 Test Name : MERCURY BY SW7470A Matrix: Water						
HS14040557-07	EB-5-0414	07 Apr 2014 15:30		29 Apr 2014 10:19	29 Apr 2014 14:36	1
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00		29 Apr 2014 10:19	29 Apr 2014 14:46	1
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00		29 Apr 2014 10:19	29 Apr 2014 14:47	1
HS14040557-13	EB-6-0414	08 Apr 2014 09:25		29 Apr 2014 10:19	29 Apr 2014 14:53	1
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25		29 Apr 2014 10:19	29 Apr 2014 14:54	1
HS14040557-33	EB-7-0414	09 Apr 2014 09:05		29 Apr 2014 10:19	29 Apr 2014 14:56	1
Batch ID R231915 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35			15 Apr 2014 19:08	1
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05			15 Apr 2014 19:33	1
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35			15 Apr 2014 19:59	1
HS14040557-07	EB-5-0414	07 Apr 2014 15:30			15 Apr 2014 20:25	1
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00			15 Apr 2014 20:50	1
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00			15 Apr 2014 21:15	1
HS14040557-13	EB-6-0414	08 Apr 2014 09:25			15 Apr 2014 21:40	1
HS14040557-15	MW-87-0414	08 Apr 2014 09:45			15 Apr 2014 22:06	1
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25			15 Apr 2014 22:31	1

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
WorkOrder: HS14040557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R231920 Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C Matrix: Water						
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35			14 Apr 2014 17:50	1
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05			14 Apr 2014 17:50	1
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35			14 Apr 2014 17:50	1
HS14040557-07	EB-5-0414	07 Apr 2014 15:30			14 Apr 2014 17:50	1
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00			14 Apr 2014 17:50	1
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00			14 Apr 2014 17:50	1
HS14040557-13	EB-6-0414	08 Apr 2014 09:25			14 Apr 2014 17:50	1
HS14040557-15	MW-87-0414	08 Apr 2014 09:45			14 Apr 2014 17:50	1
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25			14 Apr 2014 17:50	1
HS14040557-19	MW-70-0414	08 Apr 2014 11:10			14 Apr 2014 17:50	1
HS14040557-21	MW-124-0414	08 Apr 2014 11:40			14 Apr 2014 17:50	1
HS14040557-23	MW-88-0414	08 Apr 2014 12:45			14 Apr 2014 17:50	1
Batch ID R232000 Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C Matrix: Water						
HS14040557-25	MW-22A-0414	08 Apr 2014 13:15			15 Apr 2014 17:50	1
HS14040557-27	MW-10-0414	08 Apr 2014 13:45			15 Apr 2014 17:50	1
HS14040557-42	MW-123-0414	08 Apr 2014 14:15			15 Apr 2014 17:50	1
Batch ID R232077 Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C Matrix: Water						
HS14040557-29	MW-27-0414	09 Apr 2014 08:00			16 Apr 2014 17:50	1
HS14040557-31	MW-89-0414	09 Apr 2014 08:35			16 Apr 2014 17:50	1
HS14040557-33	EB-7-0414	09 Apr 2014 09:05			16 Apr 2014 17:50	1
HS14040557-35	MW-16-0414	09 Apr 2014 09:30			16 Apr 2014 17:50	1
HS14040557-37	MW-26-0414	09 Apr 2014 10:05			16 Apr 2014 17:50	1
HS14040557-39	MW-17-0414	09 Apr 2014 10:45			16 Apr 2014 17:50	1
Batch ID R232152 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040557-19	MW-70-0414	08 Apr 2014 11:10			18 Apr 2014 16:24	1
HS14040557-21	MW-124-0414	08 Apr 2014 11:40			18 Apr 2014 16:48	1
HS14040557-23	MW-88-0414	08 Apr 2014 12:45			18 Apr 2014 17:12	1
HS14040557-25	MW-22A-0414	08 Apr 2014 13:15			18 Apr 2014 17:36	1
HS14040557-27	MW-10-0414	08 Apr 2014 13:45			18 Apr 2014 18:00	1
HS14040557-29	MW-27-0414	09 Apr 2014 08:00			18 Apr 2014 12:53	1
HS14040557-31	MW-89-0414	09 Apr 2014 08:35			18 Apr 2014 18:24	1
HS14040557-33	EB-7-0414	09 Apr 2014 09:05			18 Apr 2014 16:00	1
HS14040557-35	MW-16-0414	09 Apr 2014 09:30			18 Apr 2014 18:48	1
HS14040557-37	MW-26-0414	09 Apr 2014 10:05			18 Apr 2014 19:11	1
HS14040557-41	Trip Blank 032814-13	09 Apr 2014 00:00			18 Apr 2014 15:38	1
HS14040557-42	MW-123-0414	08 Apr 2014 14:15			18 Apr 2014 19:35	1

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
WorkOrder: HS14040557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R232301 Test Name : GASOLINE RANGE ORGANICS BY SW8015C Matrix: Water						
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35			22 Apr 2014 00:31	1
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05			22 Apr 2014 00:49	1
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35			22 Apr 2014 01:07	1
HS14040557-07	EB-5-0414	07 Apr 2014 15:30			22 Apr 2014 01:25	1
Batch ID R232364 Test Name : GASOLINE RANGE ORGANICS BY SW8015C Matrix: Water						
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00			22 Apr 2014 13:52	1
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00			22 Apr 2014 14:08	1
HS14040557-13	EB-6-0414	08 Apr 2014 09:25			22 Apr 2014 14:24	1
HS14040557-15	MW-87-0414	08 Apr 2014 09:45			22 Apr 2014 15:11	1
HS14040557-19	MW-70-0414	08 Apr 2014 11:10			22 Apr 2014 15:27	1
HS14040557-21	MW-124-0414	08 Apr 2014 11:40			22 Apr 2014 16:14	1
HS14040557-23	MW-88-0414	08 Apr 2014 12:45			22 Apr 2014 16:30	1
HS14040557-25	MW-22A-0414	08 Apr 2014 13:15			22 Apr 2014 16:46	1
HS14040557-27	MW-10-0414	08 Apr 2014 13:45			22 Apr 2014 17:02	1
HS14040557-42	MW-123-0414	08 Apr 2014 14:15			22 Apr 2014 19:41	1
Batch ID R232458 Test Name : GASOLINE RANGE ORGANICS BY SW8015C Matrix: Water						
HS14040557-33	EB-7-0414	09 Apr 2014 09:05			23 Apr 2014 13:40	1
Batch ID R232506 Test Name : ANIONS BY E300.0 Matrix: Water						
HS14040557-33	EB-7-0414	09 Apr 2014 09:05			23 Apr 2014 23:59	1
HS14040557-35	MW-16-0414	09 Apr 2014 09:30			24 Apr 2014 00:24	1
HS14040557-37	MW-26-0414	09 Apr 2014 10:05			24 Apr 2014 01:36	1
HS14040557-39	MW-17-0414	09 Apr 2014 10:45			24 Apr 2014 02:00	1
HS14040557-42	MW-123-0414	08 Apr 2014 14:15			24 Apr 2014 02:24	1
Batch ID R232565 Test Name : ANIONS BY E300.0 Matrix: Water						
HS14040557-35	MW-16-0414	09 Apr 2014 09:30			25 Apr 2014 01:29	5
HS14040557-37	MW-26-0414	09 Apr 2014 10:05			25 Apr 2014 01:53	100
HS14040557-39	MW-17-0414	09 Apr 2014 10:45			25 Apr 2014 02:18	5
Batch ID R232593 Test Name : CYANIDE BY SW9012B Matrix: Water						
HS14040557-07	EB-5-0414	07 Apr 2014 15:30		21 Apr 2014 03:48	26 Apr 2014 12:43	1
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00		21 Apr 2014 03:48	26 Apr 2014 12:43	1
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00		21 Apr 2014 03:48	26 Apr 2014 12:43	1
HS14040557-13	EB-6-0414	08 Apr 2014 09:25		21 Apr 2014 03:48	26 Apr 2014 12:43	1
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25		21 Apr 2014 03:48	26 Apr 2014 12:43	1
HS14040557-33	EB-7-0414	09 Apr 2014 09:05		21 Apr 2014 03:48	26 Apr 2014 12:43	1

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
WorkOrder: HS14040557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R232621 Test Name : ANIONS BY E300.0 Matrix: Water						
HS14040557-35	MW-16-0414	09 Apr 2014 09:30			26 Apr 2014 02:54	50
HS14040557-39	MW-17-0414	09 Apr 2014 10:45			26 Apr 2014 03:09	50
HS14040557-42	MW-123-0414	08 Apr 2014 14:15			26 Apr 2014 03:24	50
Batch ID R232678 Test Name : ANIONS BY E300.0 Matrix: Water						
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35			26 Apr 2014 09:56	1
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35			26 Apr 2014 05:05	5000
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05			26 Apr 2014 10:11	1
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05			26 Apr 2014 05:20	100
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35			26 Apr 2014 10:25	1
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35			26 Apr 2014 05:34	50
HS14040557-07	EB-5-0414	07 Apr 2014 15:30			26 Apr 2014 10:40	1
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00			26 Apr 2014 10:54	1
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00			26 Apr 2014 05:49	50
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00			26 Apr 2014 11:09	1
HS14040557-13	EB-6-0414	08 Apr 2014 09:25			26 Apr 2014 11:24	1
HS14040557-15	MW-87-0414	08 Apr 2014 09:45			26 Apr 2014 11:38	5
HS14040557-15	MW-87-0414	08 Apr 2014 09:45			26 Apr 2014 06:18	100
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25			26 Apr 2014 11:53	1
HS14040557-19	MW-70-0414	08 Apr 2014 11:10			26 Apr 2014 12:07	1
HS14040557-19	MW-70-0414	08 Apr 2014 11:10			26 Apr 2014 06:47	50
HS14040557-21	MW-124-0414	08 Apr 2014 11:40			26 Apr 2014 12:51	1
HS14040557-21	MW-124-0414	08 Apr 2014 11:40			26 Apr 2014 07:31	50
HS14040557-23	MW-88-0414	08 Apr 2014 12:45			26 Apr 2014 13:05	1
HS14040557-23	MW-88-0414	08 Apr 2014 12:45			26 Apr 2014 07:45	50
HS14040557-25	MW-22A-0414	08 Apr 2014 13:15			26 Apr 2014 13:20	1
HS14040557-25	MW-22A-0414	08 Apr 2014 13:15			26 Apr 2014 08:00	50
HS14040557-27	MW-10-0414	08 Apr 2014 13:45			26 Apr 2014 13:35	1
HS14040557-27	MW-10-0414	08 Apr 2014 13:45			26 Apr 2014 08:14	50
HS14040557-29	MW-27-0414	09 Apr 2014 08:00			26 Apr 2014 13:49	1
HS14040557-29	MW-27-0414	09 Apr 2014 08:00			26 Apr 2014 08:29	50
HS14040557-31	MW-89-0414	09 Apr 2014 08:35			26 Apr 2014 14:04	1
HS14040557-31	MW-89-0414	09 Apr 2014 08:35			26 Apr 2014 08:44	50
Batch ID R232786 Test Name : ANIONS BY E300.0 Matrix: Water						
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25			28 Apr 2014 14:00	500
Batch ID R232888 Test Name : ANIONS BY E300.0 Matrix: Water						
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00			28 Apr 2014 23:14	50
HS14040557-13	EB-6-0414	08 Apr 2014 09:25			28 Apr 2014 23:29	1

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
WorkOrder: HS14040557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID	R232934	Test Name : NITRATE/NITRITE BY E300.0			Matrix: Water	
HS14040557-01	MW-4A-0414	07 Apr 2014 12:35			26 Apr 2014 06:26	5
HS14040557-03	MW-5A-0414	07 Apr 2014 13:05			26 Apr 2014 06:50	5
HS14040557-05	MW-7A-0414	07 Apr 2014 13:35			26 Apr 2014 07:14	5
HS14040557-07	EB-5-0414	07 Apr 2014 15:30			26 Apr 2014 07:38	5
HS14040557-09	OCD-8A-0414	08 Apr 2014 09:00			26 Apr 2014 08:02	5
HS14040557-11	DUP-4-0414	08 Apr 2014 00:00			26 Apr 2014 08:27	5
HS14040557-13	EB-6-0414	08 Apr 2014 09:25			26 Apr 2014 08:51	5
HS14040557-15	MW-87-0414	08 Apr 2014 09:45			26 Apr 2014 09:15	5
HS14040557-17	MW-18A-0414	08 Apr 2014 10:25			26 Apr 2014 09:39	5
HS14040557-19	MW-70-0414	08 Apr 2014 11:10			26 Apr 2014 10:03	5
HS14040557-21	MW-124-0414	08 Apr 2014 11:40			26 Apr 2014 11:15	5
HS14040557-23	MW-88-0414	08 Apr 2014 12:45			26 Apr 2014 11:40	5
HS14040557-25	MW-22A-0414	08 Apr 2014 13:15			26 Apr 2014 12:04	5
HS14040557-27	MW-10-0414	08 Apr 2014 13:45			26 Apr 2014 12:28	5
HS14040557-29	MW-27-0414	09 Apr 2014 08:00			26 Apr 2014 12:52	5
HS14040557-31	MW-89-0414	09 Apr 2014 08:35			26 Apr 2014 13:16	5
HS14040557-33	EB-7-0414	09 Apr 2014 09:05			26 Apr 2014 13:40	5
HS14040557-35	MW-16-0414	09 Apr 2014 09:30			26 Apr 2014 14:04	5
HS14040557-37	MW-26-0414	09 Apr 2014 10:05			26 Apr 2014 14:29	5
HS14040557-39	MW-17-0414	09 Apr 2014 10:45			26 Apr 2014 14:53	5
HS14040557-42	MW-123-0414	08 Apr 2014 14:15			26 Apr 2014 16:05	5

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 80756		Instrument: FID-16		Method: SW8015M	
MBLK	Sample ID: LBLKW-80756	Units: mg/L		Analysis Date: 16-Apr-2014 10:28	
Client ID:	Run ID: FID-16_232373	SeqNo: 2804898		PrepDate: 14-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
TPH (Diesel Range)	U	0.050			
Surr: 2-Fluorobiphenyl	0.03752	0.0050	0.06061	0 61.9	60 - 135
LCS	Sample ID: LLC SW-80756	Units: mg/L		Analysis Date: 16-Apr-2014 10:54	
Client ID:	Run ID: FID-16_232373	SeqNo: 2804899		PrepDate: 14-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
TPH (Diesel Range)	0.5346	0.050	0.6061	0 88.2	70 - 130
Surr: 2-Fluorobiphenyl	0.05274	0.0050	0.06061	0 87.0	60 - 135
LCSD	Sample ID: LLCSD-80756	Units: mg/L		Analysis Date: 16-Apr-2014 11:20	
Client ID:	Run ID: FID-16_232373	SeqNo: 2804900		PrepDate: 14-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
TPH (Diesel Range)	0.6004	0.050	0.6061	0 99.1	70 - 130 0.5346 11.6 20
Surr: 2-Fluorobiphenyl	0.05421	0.0050	0.06061	0 89.4	60 - 135 0.05274 2.74 20
The following samples were analyzed in this batch:					
HS14040557-01		HS14040557-03		HS14040557-05	
HS14040557-09		HS14040557-11		HS14040557-13	
HS14040557-17		HS14040557-19		HS14040557-21	
HS14040557-25		HS14040557-27		HS14040557-42	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 80838A		Instrument: FID-16		Method: SW8015M	
MBLK	Sample ID: LBLKW-80838	Units: mg/L		Analysis Date: 17-Apr-2014 14:32	
Client ID:	Run ID: FID-16_232252	SeqNo: 2803804		PrepDate: 16-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) U 0.050

Surr: 2-Fluorobiphenyl 0.04547 0.0050 0.06061 0 75.0 60 - 135

LCS	Sample ID: LLCSSW-80838	Units: mg/L		Analysis Date: 17-Apr-2014 14:58	
Client ID:	Run ID: FID-16_232252	SeqNo: 2803805		PrepDate: 16-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) 0.5371 0.050 0.6061 0 88.6 70 - 130

Surr: 2-Fluorobiphenyl 0.05148 0.0050 0.06061 0 84.9 60 - 135

LCSD	Sample ID: LLCSDW-80838	Units: mg/L		Analysis Date: 17-Apr-2014 15:24	
Client ID:	Run ID: FID-16_232252	SeqNo: 2803806		PrepDate: 16-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) 0.5791 0.050 0.6061 0 95.5 70 - 130 0.5371 7.53 20

Surr: 2-Fluorobiphenyl 0.04933 0.0050 0.06061 0 81.4 60 - 135 0.05148 4.25 20

The following samples were analyzed in this batch:

HS14040557-29	HS14040557-31	HS14040557-33	HS14040557-35
HS14040557-37	HS14040557-39		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232301		Instrument: FID-9		Method: SW8015					
MBLK	Sample ID: GBLKW-140421	Units: mg/L		Analysis Date: 21-Apr-2014 21:48					
Client ID:	Run ID: FID-9_232301	SeqNo: 2802865		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	U	0.0500							
Surr: 4-Bromofluorobenzene	0.1129	0.00500	0.1	0	113	70 - 130			
LCS	Sample ID: GLCSW-140421	Units: mg/L		Analysis Date: 21-Apr-2014 21:12					
Client ID:	Run ID: FID-9_232301	SeqNo: 2802864		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.075	0.0500	1	0	107	70 - 130			
Surr: 4-Bromofluorobenzene	0.1145	0.00500	0.1	0	114	70 - 130			
LCSD	Sample ID: GLCSDW1-140421	Units: mg/L		Analysis Date: 22-Apr-2014 12:46					
Client ID:	Run ID: FID-9_232301	SeqNo: 2803871		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.044	0.0500	1	0	104	70 - 130	1.075	2.91	30
Surr: 4-Bromofluorobenzene	0.1195	0.00500	0.1	0	120	70 - 130	0.1145	4.31	30
MS	Sample ID: HS14040529-08MS	Units: mg/L		Analysis Date: 22-Apr-2014 11:12					
Client ID:	Run ID: FID-9_232301	SeqNo: 2803869		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	0.9625	0.0500	1	0.03092	93.2	70 - 130			
Surr: 4-Bromofluorobenzene	0.01187	0.00500	0.1	0	11.9	70 - 130			S
MSD	Sample ID: HS14040529-08MSD	Units: mg/L		Analysis Date: 22-Apr-2014 11:31					
Client ID:	Run ID: FID-9_232301	SeqNo: 2803870		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	0.9129	0.0500	1	0.03092	88.2	70 - 130	0.9625	5.3	30
Surr: 4-Bromofluorobenzene	0.01185	0.00500	0.1	0	11.9	70 - 130	0.01187	0.177	30 S
The following samples were analyzed in this batch:									
HS14040557-01		HS14040557-03		HS14040557-05		HS14040557-07			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232364		Instrument: FID-14		Method: SW8015	
MBLK	Sample ID: GBLKW1-140422	Units: mg/L		Analysis Date: 22-Apr-2014 13:36	
Client ID:	Run ID: FID-14_232364	SeqNo: 2804584		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Gasoline Range Organics U 0.0500

Surr: 4-Bromofluorobenzene 0.0956 0.00500 0.1 0 95.6 70 - 130

LCS	Sample ID: GLCSW1-140422	Units: mg/L		Analysis Date: 22-Apr-2014 13:20	
Client ID:	Run ID: FID-14_232364	SeqNo: 2804583		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Gasoline Range Organics 0.9021 0.0500 1 0 90.2 70 - 130

Surr: 4-Bromofluorobenzene 0.1018 0.00500 0.1 0 102 70 - 130

MS	Sample ID: HS14040557-13MS	Units: mg/L		Analysis Date: 22-Apr-2014 14:39	
Client ID: EB-6-0414	Run ID: FID-14_232364	SeqNo: 2804588		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Gasoline Range Organics 0.8987 0.0500 1 0 89.9 70 - 130

Surr: 4-Bromofluorobenzene 0.1028 0.00500 0.1 0 103 70 - 130

MSD	Sample ID: HS14040557-13MSD	Units: mg/L		Analysis Date: 22-Apr-2014 14:55	
Client ID: EB-6-0414	Run ID: FID-14_232364	SeqNo: 2804589		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Gasoline Range Organics 0.8124 0.0500 1 0 81.2 70 - 130 0.8987 10.1 30

Surr: 4-Bromofluorobenzene 0.1054 0.00500 0.1 0 105 70 - 130 0.1028 2.56 30

The following samples were analyzed in this batch:

HS14040557-09	HS14040557-11	HS14040557-13	HS14040557-15
HS14040557-19	HS14040557-21	HS14040557-23	HS14040557-25
HS14040557-27	HS14040557-42		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232458		Instrument: FID-9		Method: SW8015					
MBLK	Sample ID: GBLKW-140423	Units: mg/L		Analysis Date: 23-Apr-2014 12:45					
Client ID:	Run ID: FID-9_232458	SeqNo: 2806836		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	U	0.0500							
Surr: 4-Bromofluorobenzene	0.1076	0.00500	0.1	0	108	70 - 130			
LCS	Sample ID: GLCSW-140423	Units: mg/L		Analysis Date: 23-Apr-2014 12:08					
Client ID:	Run ID: FID-9_232458	SeqNo: 2806835		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.126	0.0500	1	0	113	70 - 130			
Surr: 4-Bromofluorobenzene	0.08463	0.00500	0.1	0	84.6	70 - 130			
MS	Sample ID: HS14040510-03MS	Units: mg/L		Analysis Date: 23-Apr-2014 14:35					
Client ID:	Run ID: FID-9_232458	SeqNo: 2806839		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.055	0.0500	1	0	106	70 - 130			
Surr: 4-Bromofluorobenzene	0.1175	0.00500	0.1	0	118	70 - 130			
MSD	Sample ID: HS14040510-03MSD	Units: mg/L		Analysis Date: 23-Apr-2014 14:53					
Client ID:	Run ID: FID-9_232458	SeqNo: 2806840		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.061	0.0500	1	0	106	70 - 130	1.055	0.541	30
Surr: 4-Bromofluorobenzene	0.1195	0.00500	0.1	0	120	70 - 130	0.1175	1.69	30
The following samples were analyzed in this batch: HS14040557-33									

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 80929		Instrument: HG03		Method: SW7470	
MBLK	Sample ID: GBLKW3-041814	Units: mg/L		Analysis Date: 18-Apr-2014 19:02	
Client ID:	Run ID: HG03_231958	SeqNo: 2800509		PrepDate: 18-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200			
LCS	Sample ID: GLCSW3-041814	Units: mg/L		Analysis Date: 18-Apr-2014 19:04	
Client ID:	Run ID: HG03_231958	SeqNo: 2800510		PrepDate: 18-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.0054	0.000200	0.005	0 108	80 - 120
MS	Sample ID: HS14040428-01MS	Units: mg/L		Analysis Date: 18-Apr-2014 19:09	
Client ID:	Run ID: HG03_231958	SeqNo: 2800513		PrepDate: 18-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00533	0.000200	0.005	-0.000036 107	80 - 120
MSD	Sample ID: HS14040428-01MSD	Units: mg/L		Analysis Date: 18-Apr-2014 19:12	
Client ID:	Run ID: HG03_231958	SeqNo: 2800514		PrepDate: 18-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00545	0.000200	0.005	-0.000036 110	80 - 120 0.00533 2.23 20
DUP	Sample ID: HS14040428-01DUP	Units: mg/L		Analysis Date: 18-Apr-2014 19:07	
Client ID:	Run ID: HG03_231958	SeqNo: 2800512		PrepDate: 18-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200		-0.000036	0 20
The following samples were analyzed in this batch:					
HS14040557-08 HS14040557-10 HS14040557-12 HS14040557-14 HS14040557-18					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81075		Instrument: HG03		Method: SW7470	
MBLK	Sample ID: GBLKW1-042314	Units: mg/L		Analysis Date: 23-Apr-2014 13:22	
Client ID:	Run ID: HG03_232347	SeqNo: 2806912		PrepDate: 23-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200			
LCS	Sample ID: GLCSW1-042314	Units: mg/L		Analysis Date: 23-Apr-2014 13:23	
Client ID:	Run ID: HG03_232347	SeqNo: 2806913		PrepDate: 23-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00503	0.000200	0.005	0 101	80 - 120
MS	Sample ID: HS14040710-01MS	Units: mg/L		Analysis Date: 23-Apr-2014 13:28	
Client ID:	Run ID: HG03_232347	SeqNo: 2806916		PrepDate: 23-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00501	0.000200	0.005	-0.000004 100	80 - 120
MSD	Sample ID: HS14040710-01MSD	Units: mg/L		Analysis Date: 23-Apr-2014 13:30	
Client ID:	Run ID: HG03_232347	SeqNo: 2806917		PrepDate: 23-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00509	0.000200	0.005	-0.000004 102	80 - 120 0.00501 1.58 20
DUP	Sample ID: HS14040710-01DUP	Units: mg/L		Analysis Date: 23-Apr-2014 13:27	
Client ID:	Run ID: HG03_232347	SeqNo: 2806915		PrepDate: 23-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200		-0.000004	0 20
The following samples were analyzed in this batch: HS14040557-34					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81156		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW4-042414	Units: mg/L		Analysis Date: 25-Apr-2014 02:45	
Client ID:	Run ID: ICP7500_232503	SeqNo: 2809275		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.00500			
Barium	U	0.00500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Selenium	U	0.00500			

LCS	Sample ID: MLCSW4-042414	Units: mg/L		Analysis Date: 25-Apr-2014 02:49	
Client ID:	Run ID: ICP7500_232503	SeqNo: 2809276		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.05305	0.00500	0.05	0 106	80 - 120
Barium	0.05482	0.00500	0.05	0 110	80 - 120
Chromium	0.05217	0.00500	0.05	0 104	80 - 120
Iron	5.185	0.200	5	0 104	80 - 120
Lead	0.05067	0.00500	0.05	0 101	80 - 120
Manganese	0.0528	0.00500	0.05	0 106	80 - 120
Selenium	0.05411	0.00500	0.05	0 108	80 - 120

MS	Sample ID: HS14040478-01MS	Units: mg/L		Analysis Date: 25-Apr-2014 03:09	
Client ID:	Run ID: ICP7500_232503	SeqNo: 2809280		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.05472	0.00500	0.05	0.0004856 108	75 - 125
Barium	0.0757	0.00500	0.05	0.02015 111	75 - 125
Chromium	0.05238	0.00500	0.05	-0.0004927 106	75 - 125
Iron	5.598	0.200	5	0.3123 106	75 - 125
Lead	0.05186	0.00500	0.05	0.00002704 104	75 - 125
Manganese	0.1161	0.00500	0.05	0.0645 103	75 - 125
Selenium	0.05505	0.00500	0.05	-0.0006253 111	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81156		Instrument: ICP7500		Method: SW6020					
MSD		Sample ID: HS14040478-01MSD		Units: mg/L		Analysis Date: 25-Apr-2014 03:14			
Client ID:		Run ID: ICP7500_232503		SeqNo: 2809281		PrepDate: 24-Apr-2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.05593	0.00500	0.05	0.0004856	111	75 - 125	0.05472	2.19	25
Barium	0.07359	0.00500	0.05	0.02015	107	75 - 125	0.0757	2.83	25
Chromium	0.05251	0.00500	0.05	-0.0004927	106	75 - 125	0.05238	0.248	25
Iron	5.631	0.200	5	0.3123	106	75 - 125	5.598	0.588	25
Lead	0.0516	0.00500	0.05	0.00002704	103	75 - 125	0.05186	0.503	25
Manganese	0.1176	0.00500	0.05	0.0645	106	75 - 125	0.1161	1.28	25
Selenium	0.05658	0.00500	0.05	-0.0006253	114	75 - 125	0.05505	2.74	25
DUP		Sample ID: HS14040478-01DUP		Units: mg/L		Analysis Date: 25-Apr-2014 02:59			
Client ID:		Run ID: ICP7500_232503		SeqNo: 2809278		PrepDate: 24-Apr-2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	U	0.00500					0.0004856	0	25
Barium	0.01948	0.00500					0.02015	3.38	25
Chromium	U	0.00500					-0.0004927	0	25
Iron	0.2977	0.200					0.3123	4.79	25
Lead	0.001907	0.00500					0.00002704	0	25 J
Manganese	0.06372	0.00500					0.0645	1.22	25
Selenium	U	0.00500					-0.0006253	0	25
PDS		Sample ID: HS14040478-01BS		Units: mg/L		Analysis Date: 25-Apr-2014 03:19			
Client ID:		Run ID: ICP7500_232503		SeqNo: 2809282		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.1021	0.00500	0.1	0.0004856	102	75 - 125			
Barium	0.1197	0.00500	0.1	0.02015	99.6	75 - 125			
Chromium	0.09856	0.00500	0.1	-0.0004927	99.1	75 - 125			
Iron	10.13	0.200	10	0.3123	98.2	75 - 125			
Lead	0.09598	0.00500	0.1	0.00002704	96.0	75 - 125			
Manganese	0.16	0.00500	0.1	0.0645	95.5	75 - 125			
Selenium	0.1048	0.00500	0.1	-0.0006253	105	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
WorkOrder: HS14040557
Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81156		Instrument: ICP7500		Method: SW6020	
SD	Sample ID: HS14040478-01 DIL SX	Units: mg/L		Analysis Date: 25-Apr-2014 03:04	
Client ID:	Run ID: ICP7500_232503	SeqNo: 2809279		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.0250			0.0004856 0 10
Barium	0.01986	0.0250			0.02015 0 10 J
Chromium	U	0.0250			-0.0004927 0 10
Iron	U	1.00			0.3123 0 10
Lead	U	0.0250			0.00002704 0 10
Manganese	0.06315	0.0250			0.0645 2.09 10
Selenium	U	0.0250			-0.0006253 0 10

The following samples were analyzed in this batch: HS14040557-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81157		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW5-042414	Units: mg/L		Analysis Date: 03-May-2014 13:13	
Client ID:	Run ID: ICP7500_233045	SeqNo: 2821606		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.00500			
Barium	U	0.00500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Selenium	U	0.00500			

LCS	Sample ID: MLCSW5-042414	Units: mg/L		Analysis Date: 03-May-2014 13:18	
Client ID:	Run ID: ICP7500_233045	SeqNo: 2821607		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.0525	0.00500	0.05	0 105	80 - 120
Barium	0.05095	0.00500	0.05	0 102	80 - 120
Chromium	0.05031	0.00500	0.05	0 101	80 - 120
Iron	4.94	0.200	5	0 98.8	80 - 120
Lead	0.04917	0.00500	0.05	0 98.3	80 - 120
Manganese	0.04985	0.00500	0.05	0 99.7	80 - 120
Selenium	0.05378	0.00500	0.05	0 108	80 - 120

MS	Sample ID: HS14040557-04MS	Units: mg/L		Analysis Date: 06-May-2014 23:54	
Client ID: MW-5A-0414-D	Run ID: ICP7500_233223	SeqNo: 2824921		PrepDate: 24-Apr-2014	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.1282	0.0250	0.05	0.0796 97.1	75 - 125
Barium	0.06305	0.0250	0.05	0.01061 105	75 - 125
Chromium	0.04913	0.0250	0.05	-0.001036 100	75 - 125
Iron	10.54	1.00	5	5.395 103	75 - 125
Lead	0.04968	0.0250	0.05	-0.0006405 101	75 - 125
Manganese	1.712	0.0250	0.05	1.625 175	75 - 125 SO
Selenium	0.05545	0.0250	0.05	-0.004708 120	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81157		Instrument: ICP7500		Method: SW6020					
MSD		Sample ID: HS14040557-04MSD		Units: mg/L		Analysis Date: 07-May-2014 00:04			
Client ID: MW-5A-0414-D		Run ID: ICP7500_233223		SeqNo: 2824923		PrepDate: 24-Apr-2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.137	0.0250	0.05	0.0796	115	75 - 125	0.1282	6.68	25
Barium	0.0621	0.0250	0.05	0.01061	103	75 - 125	0.06305	1.52	25
Chromium	0.04885	0.0250	0.05	-0.001036	99.8	75 - 125	0.04913	0.572	25
Iron	10.3	1.00	5	5.395	98.0	75 - 125	10.54	2.35	25
Lead	0.04853	0.0250	0.05	-0.0006405	98.3	75 - 125	0.04968	2.34	25
Manganese	1.678	0.0250	0.05	1.625	106	75 - 125	1.712	2.04	25 O
Selenium	0.0574	0.0250	0.05	-0.004708	124	75 - 125	0.05545	3.46	25
DUP		Sample ID: HS14040557-04DUP		Units: mg/L		Analysis Date: 07-May-2014 19:05			
Client ID: MW-5A-0414-D		Run ID: ICP7500_233288		SeqNo: 2826495		PrepDate: 24-Apr-2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.08555	0.0250					0.0796	7.21	25
Chromium	U	0.0250					-0.001036	0	25
Iron	6.15	1.00					5.395	13.1	25
Manganese	1.768	0.0250					1.625	8.46	25
Selenium	U	0.0250					-0.004708	0	25
DUP		Sample ID: HS14040557-04DUP		Units: mg/L		Analysis Date: 06-May-2014 23:44			
Client ID: MW-5A-0414-D		Run ID: ICP7500_233223		SeqNo: 2824919		PrepDate: 24-Apr-2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Barium	0.00914	0.0250					0.01061	0	25 J
Lead	U	0.0250					-0.0006405	0	25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81157		Instrument: ICP7500		Method: SW6020	
PDS		Sample ID: HS14040557-04BS		Units: mg/L	
Client ID: MW-5A-0414-D		Run ID: ICP7500_233223		Analysis Date: 07-May-2014 00:09	
		SeqNo: 2824924		PrepDate: DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.592	0.0250	0.5	0.0796 102	75 - 125
Barium	0.51	0.0250	0.5	0.01061 99.9	75 - 125
Chromium	0.4768	0.0250	0.5	-0.001036 95.6	75 - 125
Iron	51.5	1.00	50	5.395 92.2	75 - 125
Lead	0.4778	0.0250	0.5	-0.0006405 95.7	75 - 125
Manganese	1.998	0.0250	0.5	1.625 74.5	75 - 125 S
Selenium	0.5435	0.0250	0.5	-0.004708 110	75 - 125

SD		Sample ID: HS14040557-04 DIL SX		Units: mg/L	
Client ID: MW-5A-0414-D		Run ID: ICP7500_233223		Analysis Date: 06-May-2014 23:49	
		SeqNo: 2824920		PrepDate: DF: 25	
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.0584	0.125			0.0796 0 10 J
Barium	U	0.125			0.01061 0 10
Chromium	U	0.125			-0.001036 0 10
Iron	3.97	5.00			5.395 26.4 10 JR
Lead	U	0.125			-0.0006405 0 10
Manganese	1.617	0.125			1.625 0.477 10
Selenium	U	0.125			-0.004708 0 10

The following samples were analyzed in this batch:				
HS14040557-04	HS14040557-06	HS14040557-08	HS14040557-10	
HS14040557-12	HS14040557-14	HS14040557-16	HS14040557-18	
HS14040557-20	HS14040557-22	HS14040557-24	HS14040557-26	
HS14040557-28	HS14040557-30	HS14040557-32	HS14040557-34	
HS14040557-36	HS14040557-38	HS14040557-40	HS14040557-43	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81208		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW2-042514	Units: mg/L		Analysis Date: 02-May-2014 21:02	
Client ID:	Run ID: ICP7500_233045	SeqNo: 2820008		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	U	0.00500			
Barium	U	0.00500			
Calcium	U	0.500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Nickel	U	0.00500			
Potassium	U	0.200			
Selenium	U	0.00500			
Sodium	U	0.200			
Vanadium	U	0.00500			

LCS	Sample ID: MLCSW2-042514	Units: mg/L		Analysis Date: 02-May-2014 21:08	
Client ID:	Run ID: ICP7500_233045	SeqNo: 2820009		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	0.05148	0.00500	0.05	0 103	80 - 120
Barium	0.05026	0.00500	0.05	0 101	80 - 120
Calcium	5.153	0.500	5	0 103	80 - 120
Chromium	0.04851	0.00500	0.05	0 97.0	80 - 120
Iron	4.929	0.200	5	0 98.6	80 - 120
Lead	0.04921	0.00500	0.05	0 98.4	80 - 120
Manganese	0.0511	0.00500	0.05	0 102	80 - 120
Nickel	0.04688	0.00500	0.05	0 93.8	80 - 120
Potassium	5.057	0.200	5	0 101	80 - 120
Selenium	0.05288	0.00500	0.05	0 106	80 - 120
Sodium	4.83	0.200	5	0 96.6	80 - 120
Vanadium	0.04858	0.00500	0.05	0 97.2	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81208		Instrument: ICP7500		Method: SW6020						
MS		Sample ID: HS14040557-01MS		Units: mg/L		Analysis Date: 06-May-2014 02:29				
Client ID: MW-4A-0414		Run ID: ICP7500_233110		SeqNo: 2822835		PrepDate: 25-Apr-2014		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.203	0.0100	0.05	0.1475	111	80 - 120				
Calcium	600.4	1.00	5	582	368	80 - 120				SEO
Chromium	0.0534	0.0100	0.05	0.0004908	106	80 - 120				
Iron	7.452	0.400	5	2.308	103	80 - 120				
Lead	0.05064	0.0100	0.05	0.0005304	100	80 - 120				
Manganese	2.42	0.0100	0.05	2.328	184	80 - 120				SO
Nickel	0.05348	0.0100	0.05	0.002076	103	80 - 120				
Selenium	0.0606	0.0100	0.05	-0.001191	124	80 - 120				S
Vanadium	0.05532	0.0100	0.05	0.0005416	110	80 - 120				

MS		Sample ID: HS14040557-01MS		Units: mg/L		Analysis Date: 03-May-2014 04:15				
Client ID: MW-4A-0414		Run ID: ICP7500_233045		SeqNo: 2820631		PrepDate: 25-Apr-2014		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.06766	0.0100	0.05	0.01209	111	80 - 120				
Potassium	9.426	0.400	5	4.238	104	80 - 120				
Sodium	999.6	0.400	5	958.8	816	80 - 120				SEO

MSD		Sample ID: HS14040557-01MSD		Units: mg/L		Analysis Date: 06-May-2014 02:39				
Client ID: MW-4A-0414		Run ID: ICP7500_233110		SeqNo: 2822837		PrepDate: 25-Apr-2014		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2036	0.0100	0.05	0.1475	112	80 - 120	0.203	0.295	15	
Calcium	582	1.00	5	582	0	80 - 120	600.4	3.11	15	SEO
Chromium	0.0533	0.0100	0.05	0.0004908	106	80 - 120	0.0534	0.187	15	
Iron	7.366	0.400	5	2.308	101	80 - 120	7.452	1.16	15	
Lead	0.05104	0.0100	0.05	0.0005304	101	80 - 120	0.05064	0.787	15	
Manganese	2.364	0.0100	0.05	2.328	72.0	80 - 120	2.42	2.34	15	SO
Nickel	0.05418	0.0100	0.05	0.002076	104	80 - 120	0.05348	1.3	15	
Selenium	0.0567	0.0100	0.05	-0.001191	116	80 - 120	0.0606	6.65	15	
Vanadium	0.0552	0.0100	0.05	0.0005416	109	80 - 120	0.05532	0.217	15	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81208		Instrument: ICP7500		Method: SW6020					
MSD		Sample ID: HS14040557-01MSD		Units: mg/L		Analysis Date: 03-May-2014 04:21			
Client ID: MW-4A-0414		Run ID: ICP7500_233045		SeqNo: 2820632		PrepDate: 25-Apr-2014		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Barium	0.06532	0.0100	0.05	0.01209	106	80 - 120	0.06766	3.52	15
Potassium	9.246	0.400	5	4.238	100	80 - 120	9.426	1.93	15
Sodium	973.2	0.400	5	958.8	288	80 - 120	999.6	2.68	15 SEO
DUP		Sample ID: HS14040557-01DUP		Units: mg/L		Analysis Date: 06-May-2014 02:04			
Client ID: MW-4A-0414		Run ID: ICP7500_233110		SeqNo: 2822830		PrepDate: 25-Apr-2014		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.1519	0.0100					0.1475	2.99	25
Chromium	U	0.0100					0.0004908	0	25
Iron	2.374	0.400					2.308	2.82	25
Lead	U	0.0100					0.0005304	0	25
Nickel	0.00275	0.0100					0.002076	0	25 J
Selenium	U	0.0100					-0.001191	0	25
Vanadium	U	0.0100					0.0005416	0	25
DUP		Sample ID: HS14040557-01DUP		Units: mg/L		Analysis Date: 03-May-2014 04:05			
Client ID: MW-4A-0414		Run ID: ICP7500_233045		SeqNo: 2820629		PrepDate: 25-Apr-2014		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Barium	0.01219	0.0100					0.01209	0.84	25
Potassium	4.386	0.400					4.238	3.43	25
DUP		Sample ID: HS14040557-01DUP		Units: mg/L		Analysis Date: 05-May-2014 22:40			
Client ID: MW-4A-0414		Run ID: ICP7500_233110		SeqNo: 2822800		PrepDate: 25-Apr-2014		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	591.5	5.00					582	1.62	25
Manganese	2.331	0.0500					2.328	0.129	25
Sodium	1003	2.00					1029	2.56	25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81208		Instrument: ICP7500		Method: SW6020	
PDS	Sample ID: HS14040557-01BS	Units: mg/L		Analysis Date: 06-May-2014 02:49	
Client ID: MW-4A-0414	Run ID: ICP7500_233110	SeqNo: 2822839		PrepDate:	DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	0.3514	0.0100	0.2	0.1475	102	75 - 125
Chromium	0.1942	0.0100	0.2	0.0004908	96.8	75 - 125
Iron	20.94	0.400	20	2.308	93.2	75 - 125
Lead	0.1918	0.0100	0.2	0.0005304	95.6	75 - 125
Nickel	0.1936	0.0100	0.2	0.002076	95.7	75 - 125
Selenium	0.2382	0.0100	0.2	-0.001191	120	75 - 125
Vanadium	0.202	0.0100	0.2	0.0005416	101	75 - 125

PDS	Sample ID: HS14040557-01BS	Units: mg/L		Analysis Date: 03-May-2014 04:26	
Client ID: MW-4A-0414	Run ID: ICP7500_233045	SeqNo: 2820633		PrepDate:	DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Barium	0.2028	0.0100	0.2	0.01209	95.4	75 - 125
Potassium	23.34	0.400	20	4.238	95.5	75 - 125

PDS	Sample ID: HS14040557-01BS	Units: mg/L		Analysis Date: 05-May-2014 22:50	
Client ID: MW-4A-0414	Run ID: ICP7500_233110	SeqNo: 2822802		PrepDate:	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Calcium	679.8	5.00	100	582	97.8	75 - 125	O
Manganese	3.307	0.0500	1	2.328	97.9	75 - 125	
Sodium	1071	2.00	100	1029	42.0	75 - 125	SO

SD	Sample ID: HS14040557-01 DIL SX	Units: mg/L		Analysis Date: 06-May-2014 02:14	
Client ID: MW-4A-0414	Run ID: ICP7500_233110	SeqNo: 2822832		PrepDate:	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	0.1339	0.0500			0.1475	9.2	10
Chromium	U	0.0500			0.0004908	0	10
Iron	1.824	2.00			2.308	21	10 JR
Lead	U	0.0500			0.0005304	0	10
Nickel	U	0.0500			0.002076	0	10
Selenium	U	0.0500			-0.001191	0	10
Vanadium	U	0.0500			0.0005416	0	10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81208		Instrument: ICP7500		Method: SW6020	
SD	Sample ID: HS14040557-01 DIL SX	Units: mg/L		Analysis Date: 03-May-2014 04:10	
Client ID: MW-4A-0414	Run ID: ICP7500_233045	SeqNo: 2820630		PrepDate:	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Barium	0.01438	0.0500			0.01209 0 10 J
Potassium	3.895	2.00			4.238 8.09 10

SD	Sample ID: HS14040557-01 DIL SX	Units: mg/L		Analysis Date: 05-May-2014 22:45	
Client ID: MW-4A-0414	Run ID: ICP7500_233110	SeqNo: 2822801		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	596.5	25.0			582 2.49 10
Manganese	2.376	0.250			2.328 2.04 10
Sodium	1022	10.0			1029 0.632 10

The following samples were analyzed in this batch:

HS14040557-01	HS14040557-03	HS14040557-05	HS14040557-07
HS14040557-09	HS14040557-11	HS14040557-13	HS14040557-15
HS14040557-17	HS14040557-19	HS14040557-21	HS14040557-23
HS14040557-25	HS14040557-27	HS14040557-29	HS14040557-31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81212		Instrument: ICPMS04		Method: SW6020	
MBLK	Sample ID: MBLKW3-042514	Units: mg/L		Analysis Date: 03-May-2014 02:58	
Client ID:	Run ID: ICPMS04_233061	SeqNo: 2820295		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	U	0.00500			
Barium	U	0.00500			
Calcium	U	0.500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Nickel	U	0.00500			
Potassium	U	0.200			
Selenium	U	0.00500			
Sodium	U	0.200			
Vanadium	U	0.00500			

LCS	Sample ID: MLCSW3-042514	Units: mg/L		Analysis Date: 03-May-2014 03:03	
Client ID:	Run ID: ICPMS04_233061	SeqNo: 2820296		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	0.0509	0.00500	0.05	0	102	80 - 120
Barium	0.05245	0.00500	0.05	0	105	80 - 120
Calcium	5.245	0.500	5	0	105	80 - 120
Chromium	0.05177	0.00500	0.05	0	104	80 - 120
Iron	5.27	0.200	5	0	105	80 - 120
Lead	0.05184	0.00500	0.05	0	104	80 - 120
Manganese	0.05299	0.00500	0.05	0	106	80 - 120
Nickel	0.05157	0.00500	0.05	0	103	80 - 120
Potassium	5.104	0.200	5	0	102	80 - 120
Selenium	0.05181	0.00500	0.05	0	104	80 - 120
Sodium	4.776	0.200	5	0	95.5	80 - 120
Vanadium	0.05184	0.00500	0.05	0	104	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81212		Instrument: ICPMS04		Method: SW6020	
MS		Sample ID: HS14040510-03MS	Units: mg/L	Analysis Date: 03-May-2014 03:31	
Client ID:		Run ID: ICPMS04_233061	SeqNo: 2820302	PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.05128	0.00500	0.05	0 103	80 - 120
Barium	1.189	0.00500	0.05	1.109 161	80 - 120 SO
Calcium	136.5	0.500	5	134.8 34.8	80 - 120 SO
Chromium	0.05126	0.00500	0.05	0 103	80 - 120
Iron	5.141	0.200	5	0 103	80 - 120
Lead	0.05125	0.00500	0.05	0 102	80 - 120
Manganese	0.247	0.00500	0.05	0.1976 98.8	80 - 120
Nickel	0.0521	0.00500	0.05	0.003966 96.3	80 - 120
Potassium	6.323	0.200	5	1.134 104	80 - 120
Selenium	0.05227	0.00500	0.05	0 105	80 - 120
Sodium	89.85	0.200	5	85.53 86.3	80 - 120 O
Vanadium	0.05439	0.00500	0.05	0.002101 105	80 - 120

MSD		Sample ID: HS14040510-03MSD	Units: mg/L	Analysis Date: 03-May-2014 03:46	
Client ID:		Run ID: ICPMS04_233061	SeqNo: 2820305	PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.05225	0.00500	0.05	0 104	80 - 120 0.05128 1.86 15
Barium	1.188	0.00500	0.05	1.109 159	80 - 120 1.189 0.0596 15 SO
Calcium	137.1	0.500	5	134.8 46.4	80 - 120 136.5 0.426 15 SO
Chromium	0.05242	0.00500	0.05	0 105	80 - 120 0.05126 2.25 15
Iron	5.223	0.200	5	0 104	80 - 120 5.141 1.58 15
Lead	0.05241	0.00500	0.05	0 105	80 - 120 0.05125 2.25 15
Manganese	0.249	0.00500	0.05	0.1976 103	80 - 120 0.247 0.785 15
Nickel	0.0532	0.00500	0.05	0.003966 98.5	80 - 120 0.0521 2.1 15
Potassium	6.41	0.200	5	1.134 106	80 - 120 6.323 1.38 15
Selenium	0.05598	0.00500	0.05	0 112	80 - 120 0.05227 6.87 15
Sodium	90.73	0.200	5	85.53 104	80 - 120 89.85 0.978 15 O
Vanadium	0.05527	0.00500	0.05	0.002101 106	80 - 120 0.05439 1.61 15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81212		Instrument: ICPMS04		Method: SW6020						
DUP	Sample ID: HS14040510-03DUP	Units: mg/L			Analysis Date: 03-May-2014 03:27					
Client ID:	Run ID: ICPMS04_233061	SeqNo: 2820301		PrepDate: 25-Apr-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Arsenic	U	0.00500					0	0	25	
Barium	1.127	0.00500					1.109	1.67	25	
Calcium	134.7	0.500					134.8	0.052	25	
Chromium	U	0.00500					0	0	25	
Iron	U	0.200					0	0	25	
Lead	U	0.00500					0	0	25	
Manganese	0.1965	0.00500					0.1976	0.587	25	
Nickel	0.003777	0.00500					0.003966	0	25 J	
Potassium	1.147	0.200					1.134	1.12	25	
Selenium	U	0.00500					0	0	25	
Sodium	85.46	0.200					85.53	0.0853	25	
Vanadium	0.002103	0.00500					0.002101	0	25 J	
PDS	Sample ID: HS14040510-03BS	Units: mg/L			Analysis Date: 03-May-2014 03:50					
Client ID:	Run ID: ICPMS04_233061	SeqNo: 2820306		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Arsenic	0.09866	0.00500	0.1	0	98.7	75 - 125				
Barium	1.204	0.00500	0.1	1.109	95.7	75 - 125			O	
Calcium	140.5	0.500	10	134.8	56.9	75 - 125			SO	
Chromium	0.1002	0.00500	0.1	0	100	75 - 125				
Iron	10.05	0.200	10	0	101	75 - 125				
Lead	0.1	0.00500	0.1	0	100	75 - 125				
Manganese	0.2955	0.00500	0.1	0.1976	97.9	75 - 125				
Nickel	0.0985	0.00500	0.1	0.003966	94.5	75 - 125				
Potassium	11.53	0.200	10	1.134	104	75 - 125				
Selenium	0.1049	0.00500	0.1	0	105	75 - 125				
Sodium	95.38	0.200	10	85.53	98.4	75 - 125			O	
Vanadium	0.1049	0.00500	0.1	0.002101	103	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81212		Instrument: ICPMS04		Method: SW6020					
SD	Sample ID: HS14040510-03 DIL SX	Units: mg/L		Analysis Date: 03-May-2014 03:55					
Client ID:	Run ID: ICPMS04_233061	SeqNo: 2820307		PrepDate:	DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0250				0	0	10	
Barium	1.11	0.0250				1.109	0.114	10	
Calcium	138.1	2.50				134.8	2.43	10	
Chromium	U	0.0250				0	0	10	
Iron	U	1.00				0	0	10	
Lead	U	0.0250				0	0	10	
Manganese	0.2018	0.0250				0.1976	2.13	10	
Nickel	0.004049	0.0250				0.003966	0	10	J
Potassium	1.086	1.00				1.134	4.27	10	
Selenium	U	0.0250				0	0	10	
Sodium	87.68	1.00				85.53	2.51	10	
Vanadium	U	0.0250				0.002101	0	10	
The following samples were analyzed in this batch:		HS14040557-33 HS14040557-42	HS14040557-35	HS14040557-37	HS14040557-39				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: 81311		Instrument: HG03		Method: SW7470	
MBLK	Sample ID: GBLKW2-042914	Units: mg/L		Analysis Date: 29-Apr-2014 14:32	
Client ID:	Run ID: HG03_232695	SeqNo: 2814398		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200			
LCS	Sample ID: GLCSW2-042914	Units: mg/L		Analysis Date: 29-Apr-2014 14:34	
Client ID:	Run ID: HG03_232695	SeqNo: 2814399		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00492	0.000200	0.005	0 98.4	80 - 124
MS	Sample ID: HS14040557-07MS	Units: mg/L		Analysis Date: 29-Apr-2014 14:39	
Client ID: EB-5-0414	Run ID: HG03_232695	SeqNo: 2814402		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00481	0.000200	0.005	-0.000006 96.3	80 - 124
MSD	Sample ID: HS14040557-07MSD	Units: mg/L		Analysis Date: 29-Apr-2014 14:41	
Client ID: EB-5-0414	Run ID: HG03_232695	SeqNo: 2814403		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00502	0.000200	0.005	-0.000006 101	80 - 124 0.00481 4.27 20
DUP	Sample ID: HS14040557-07DUP	Units: mg/L		Analysis Date: 29-Apr-2014 14:37	
Client ID: EB-5-0414	Run ID: HG03_232695	SeqNo: 2814401		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200		-0.000006	0 20
The following samples were analyzed in this batch:					
HS14040557-07		HS14040557-09		HS14040557-11	
HS14040557-17		HS14040557-33		HS14040557-13	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R231915		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140415	Units: ug/L		Analysis Date: 15-Apr-2014 12:50					
Client ID:	Run ID: VOA1_231915	SeqNo: 2793211		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R231915		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140415	Units: ug/L		Analysis Date: 15-Apr-2014 12:50					
Client ID:	Run ID: VOA1_231915		SeqNo: 2793211		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	U	5.0							
n-Propylbenzene	U	5.0							
o-Xylene	U	5.0							
sec-Butylbenzene	U	5.0							
Styrene	U	5.0							
Tetrachloroethene	U	5.0							
Toluene	U	5.0							
trans-1,2-Dichloroethene	U	5.0							
trans-1,3-Dichloropropene	U	5.0							
Trichloroethene	U	5.0							
Vinyl chloride	U	2.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	48.22	5.0	50	0	96.4	70 - 125			
Surr: 4-Bromofluorobenzene	52.03	5.0	50	0	104	72 - 125			
Surr: Dibromofluoromethane	48.14	5.0	50	0	96.3	71 - 125			
Surr: Toluene-d8	50.93	5.0	50	0	102	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R231915		Instrument: VOA1		Method: SW8260					
LCS		Sample ID: VLCSW-140415		Units: ug/L		Analysis Date: 15-Apr-2014 11:35			
Client ID:		Run ID: VOA1_231915		SeqNo: 2793210		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	47.98	5.0	50	0	96.0	80 - 120			
1,1,2,2-Tetrachloroethane	46.65	5.0	50	0	93.3	72 - 120			
1,1,2-Trichloroethane	45.84	5.0	50	0	91.7	80 - 120			
1,1-Dichloroethane	46.25	5.0	50	0	92.5	76 - 120			
1,1-Dichloroethene	45.85	5.0	50	0	91.7	73 - 124			
1,2,4-Trimethylbenzene	51.84	5.0	50	0	104	68 - 123			
1,2-Dibromoethane	48.39	5.0	50	0	96.8	80 - 120			
1,2-Dichloroethane	44.72	5.0	50	0	89.4	78 - 120			
1,2-Dichloropropane	48.16	5.0	50	0	96.3	80 - 120			
1,3,5-Trimethylbenzene	51.3	5.0	50	0	103	80 - 120			
2-Butanone	97.14	10	100	0	97.1	58 - 132			
2-Hexanone	106.4	10	100	0	106	61 - 130			
4-Isopropyltoluene	47.65	5.0	50	0	95.3	79 - 120			
4-Methyl-2-pentanone	105.7	10	100	0	106	65 - 127			
Acetone	98.44	10	100	0	98.4	59 - 137			
Benzene	46.6	5.0	50	0	93.2	73 - 121			
Bromodichloromethane	49	5.0	50	0	98.0	75 - 125			
Bromoform	50.17	5.0	50	0	100	70 - 130			
Bromomethane	58.47	5.0	50	0	117	60 - 145			
Carbon disulfide	95.2	10	100	0	95.2	68 - 141			
Carbon tetrachloride	47.83	5.0	50	0	95.7	75 - 125			
Chlorobenzene	46.98	5.0	50	0	94.0	80 - 120			
Chloroethane	53.75	5.0	50	0	108	70 - 130			
Chloroform	46.01	5.0	50	0	92.0	70 - 130			
Chloromethane	43.5	5.0	50	0	87.0	67 - 123			
cis-1,2-Dichloroethene	46.67	5.0	50	0	93.3	78 - 120			
cis-1,3-Dichloropropene	56.89	5.0	50	0	114	80 - 120			
Dibromochloromethane	50.6	5.0	50	0	101	80 - 120			
Ethylbenzene	47.61	5.0	50	0	95.2	80 - 120			
Isopropylbenzene	50.73	5.0	50	0	101	75 - 130			
m,p-Xylene	98.52	10	100	0	98.5	78 - 121			
Methyl tert-butyl ether	71.34	5.0	50	0	143	70 - 125			S
Methylene chloride	50.67	10	50	0	101	65 - 133			
Naphthalene	55.35	5.0	50	0	111	65 - 135			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R231915		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140415		Units: ug/L	
Client ID:		Run ID: VOA1_231915		SeqNo: 2793210	
Analyte		Result		PQL	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
n-Butylbenzene		48.66		5.0 50	
n-Propylbenzene		52.36		5.0 50	
o-Xylene		51.59		5.0 50	
sec-Butylbenzene		51.56		5.0 50	
Styrene		52.34		5.0 50	
Tetrachloroethene		45.95		5.0 50	
Toluene		46.91		5.0 50	
trans-1,2-Dichloroethene		45.94		5.0 50	
trans-1,3-Dichloropropene		56.09		5.0 50	
Trichloroethene		48.08		5.0 50	
Vinyl chloride		46.47		2.0 50	
Xylenes, Total		150.1		15 150	
Surr: 1,2-Dichloroethane-d4		48.89		5.0 50	
Surr: 4-Bromofluorobenzene		51.89		5.0 50	
Surr: Dibromofluoromethane		50.03		5.0 50	
Surr: Toluene-d8		51.01		5.0 50	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R231915		Instrument: VOA1		Method: SW8260	
MS	Sample ID: HS14040372-11MS	Units: ug/L		Analysis Date: 15-Apr-2014 16:11	
Client ID:	Run ID: VOA1_231915	SeqNo: 2793213		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
1,1,1-Trichloroethane	41.66	5.0	50	0 83.3	80 - 120
1,1,2,2-Tetrachloroethane	46.44	5.0	50	0 92.9	72 - 120
1,1,2-Trichloroethane	47.74	5.0	50	0 95.5	80 - 120
1,1-Dichloroethane	44.31	5.0	50	0 88.6	76 - 120
1,1-Dichloroethene	39.78	5.0	50	0 79.6	73 - 124
1,2,4-Trimethylbenzene	43.43	5.0	50	0 86.9	68 - 123
1,2-Dibromoethane	46.6	5.0	50	0 93.2	80 - 120
1,2-Dichloroethane	45.31	5.0	50	0 90.6	78 - 120
1,2-Dichloropropane	46.84	5.0	50	0 93.7	80 - 120
1,3,5-Trimethylbenzene	41.17	5.0	50	0 82.3	80 - 120
2-Butanone	104.9	10	100	0 105	58 - 132
2-Hexanone	112.8	10	100	0 113	61 - 130
4-Isopropyltoluene	39.03	5.0	50	0 78.1	79 - 120 S
4-Methyl-2-pentanone	115.6	10	100	0 116	65 - 127
Acetone	93.81	10	100	0 93.8	59 - 137
Benzene	44.44	5.0	50	0 88.9	73 - 121
Bromodichloromethane	47.82	5.0	50	0 95.6	75 - 125
Bromoform	51.46	5.0	50	0 103	70 - 130
Bromomethane	46.47	5.0	50	0 92.9	60 - 145
Carbon disulfide	84.52	10	100	0 84.5	68 - 141
Carbon tetrachloride	37.11	5.0	50	0 74.2	75 - 125 S
Chlorobenzene	43.66	5.0	50	0 87.3	80 - 120
Chloroethane	45.78	5.0	50	0 91.6	70 - 130
Chloroform	44.44	5.0	50	0 88.9	70 - 130
Chloromethane	39.57	5.0	50	0 79.1	67 - 123
cis-1,2-Dichloroethene	47.66	5.0	50	0 95.3	78 - 120
cis-1,3-Dichloropropene	54.27	5.0	50	0 109	80 - 120
Dibromochloromethane	50.03	5.0	50	0 100	80 - 120
Ethylbenzene	44.55	5.0	50	0 89.1	80 - 120
Isopropylbenzene	41.41	5.0	50	0 82.8	75 - 130
m,p-Xylene	89.19	10	100	0 89.2	78 - 121
Methyl tert-butyl ether	53.45	5.0	50	0 107	70 - 125
Methylene chloride	52.68	10	50	0 105	65 - 133
Naphthalene	50.19	5.0	50	0 100	65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R231915		Instrument: VOA1		Method: SW8260	
MS	Sample ID: HS14040372-11MS	Units: ug/L		Analysis Date: 15-Apr-2014 16:11	
Client ID:	Run ID: VOA1_231915	SeqNo: 2793213		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
n-Butylbenzene	38.82	5.0	50	0 77.6	77 - 120
n-Propylbenzene	40.21	5.0	50	0 80.4	78 - 120
o-Xylene	46.39	5.0	50	0 92.8	80 - 120
sec-Butylbenzene	39.14	5.0	50	0 78.3	78 - 120
Styrene	47.32	5.0	50	0 94.6	80 - 120
Tetrachloroethene	38.73	5.0	50	0 77.5	79 - 120 S
Toluene	43.9	5.0	50	0 87.8	80 - 120
trans-1,2-Dichloroethene	43.08	5.0	50	0 86.2	78 - 120
trans-1,3-Dichloropropene	56.95	5.0	50	0 114	80 - 120
Trichloroethene	43.74	5.0	50	0 87.5	80 - 120
Vinyl chloride	40.32	2.0	50	0 80.6	70 - 127
Xylenes, Total	135.6	15	150	0 90.4	80 - 120
Surr: 1,2-Dichloroethane-d4	48.7	5.0	50	0 97.4	70 - 125
Surr: 4-Bromofluorobenzene	48.09	5.0	50	0 96.2	72 - 125
Surr: Dibromofluoromethane	50.83	5.0	50	0 102	71 - 125
Surr: Toluene-d8	47.71	5.0	50	0 95.4	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R231915		Instrument: VOA1		Method: SW8260						
MSD		Sample ID: HS14040372-11MSD		Units: ug/L		Analysis Date: 15-Apr-2014 16:36				
Client ID:		Run ID: VOA1_231915		SeqNo: 2793214		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	45.72	5.0	50	0	91.4	80 - 120	41.66	9.29	20	
1,1,2,2-Tetrachloroethane	45.43	5.0	50	0	90.9	72 - 120	46.44	2.2	20	
1,1,2-Trichloroethane	46.16	5.0	50	0	92.3	80 - 120	47.74	3.36	20	
1,1-Dichloroethane	45.56	5.0	50	0	91.1	76 - 120	44.31	2.78	20	
1,1-Dichloroethene	45.17	5.0	50	0	90.3	73 - 124	39.78	12.7	20	
1,2,4-Trimethylbenzene	50.05	5.0	50	0	100	68 - 123	43.43	14.2	20	
1,2-Dibromoethane	47.39	5.0	50	0	94.8	80 - 120	46.6	1.68	20	
1,2-Dichloroethane	47.98	5.0	50	0	96.0	78 - 120	45.31	5.72	20	
1,2-Dichloropropane	48.38	5.0	50	0	96.8	80 - 120	46.84	3.24	20	
1,3,5-Trimethylbenzene	49.03	5.0	50	0	98.1	80 - 120	41.17	17.4	20	
2-Butanone	103.7	10	100	0	104	58 - 132	104.9	1.15	20	
2-Hexanone	108.6	10	100	0	109	61 - 130	112.8	3.76	20	
4-Isopropyltoluene	46.41	5.0	50	0	92.8	79 - 120	39.03	17.3	20	
4-Methyl-2-pentanone	106.7	10	100	0	107	65 - 127	115.6	8.02	20	
Acetone	100.5	10	100	0	101	59 - 137	93.81	6.89	20	
Benzene	49.59	5.0	50	0	99.2	73 - 121	44.44	11	20	
Bromodichloromethane	49.97	5.0	50	0	99.9	75 - 125	47.82	4.4	20	
Bromoform	51.18	5.0	50	0	102	70 - 130	51.46	0.551	20	
Bromomethane	51.48	5.0	50	0	103	60 - 145	46.47	10.2	20	
Carbon disulfide	93.42	10	100	0	93.4	68 - 141	84.52	9.99	20	
Carbon tetrachloride	45.85	5.0	50	0	91.7	75 - 125	37.11	21.1	20	R
Chlorobenzene	46.71	5.0	50	0	93.4	80 - 120	43.66	6.74	20	
Chloroethane	53.08	5.0	50	0	106	76 - 121	45.78	14.8	20	
Chloroform	46.25	5.0	50	0	92.5	70 - 130	44.44	4.01	20	
Chloromethane	45.38	5.0	50	0	90.8	67 - 123	39.57	13.7	20	
cis-1,2-Dichloroethene	48.55	5.0	50	0	97.1	78 - 120	47.66	1.84	20	
cis-1,3-Dichloropropene	55.83	5.0	50	0	112	80 - 120	54.27	2.84	20	
Dibromochloromethane	49.91	5.0	50	0	99.8	80 - 120	50.03	0.248	20	
Ethylbenzene	49.54	5.0	50	0	99.1	80 - 120	44.55	10.6	20	
Isopropylbenzene	48.22	5.0	50	0	96.4	75 - 130	41.41	15.2	20	
m,p-Xylene	99.28	10	100	0	99.3	78 - 121	89.19	10.7	20	
Methyl tert-butyl ether	56.45	5.0	50	0	113	70 - 125	53.45	5.46	20	
Methylene chloride	50.51	10	50	0	101	65 - 133	52.68	4.21	20	
Naphthalene	55.18	5.0	50	0	110	65 - 135	50.19	9.49	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R231915		Instrument: VOA1		Method: SW8260							
MSD		Sample ID: HS14040372-11MSD		Units: ug/L		Analysis Date: 15-Apr-2014 16:36					
Client ID:		Run ID: VOA1_231915		SeqNo: 2793214		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
n-Butylbenzene	47.75	5.0	50	0	95.5	77 - 120	38.82	20.6	20	R	
n-Propylbenzene	49.7	5.0	50	0	99.4	78 - 120	40.21	21.1	20	R	
o-Xylene	51.73	5.0	50	0	103	80 - 120	46.39	10.9	20		
sec-Butylbenzene	49.9	5.0	50	0	99.8	78 - 120	39.14	24.2	20	R	
Styrene	52.01	5.0	50	0	104	80 - 120	47.32	9.45	20		
Tetrachloroethene	44.58	5.0	50	0	89.2	79 - 120	38.73	14.1	20		
Toluene	46.74	5.0	50	0	93.5	80 - 120	43.9	6.27	20		
trans-1,2-Dichloroethene	45.42	5.0	50	0	90.8	78 - 120	43.08	5.29	20		
trans-1,3-Dichloropropene	57.36	5.0	50	0	115	80 - 120	56.95	0.716	20		
Trichloroethene	48.9	5.0	50	0	97.8	80 - 120	43.74	11.1	20		
Vinyl chloride	44.85	2.0	50	0	89.7	70 - 127	40.32	10.6	20		
Xylenes, Total	151	15	150	0	101	78 - 121	135.6	10.8	20		
Surr: 1,2-Dichloroethane-d4	48.13	5.0	50	0	96.3	70 - 125	48.7	1.18	20		
Surr: 4-Bromofluorobenzene	48.66	5.0	50	0	97.3	72 - 125	48.09	1.19	20		
Surr: Dibromofluoromethane	48.9	5.0	50	0	97.8	71 - 125	50.83	3.87	20		
Surr: Toluene-d8	48.04	5.0	50	0	96.1	75 - 125	47.71	0.682	20		
The following samples were anayzed in this batch:											
		HS14040557-01		HS14040557-03		HS14040557-05		HS14040557-07			
		HS14040557-09		HS14040557-11		HS14040557-13		HS14040557-15			
		HS14040557-17									

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260					
MBLK	Sample ID: VBLKW-140418	Units: ug/L		Analysis Date: 18-Apr-2014 12:30					
Client ID:	Run ID: VOA6_232152	SeqNo: 2799110		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260					
MBLK	Sample ID: VBLKW-140418	Units: ug/L		Analysis Date: 18-Apr-2014 12:30					
Client ID:	Run ID: VOA6_232152	SeqNo: 2799110		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	U	5.0							
n-Propylbenzene	U	5.0							
o-Xylene	U	5.0							
sec-Butylbenzene	U	5.0							
Styrene	U	5.0							
Tetrachloroethene	U	5.0							
Toluene	U	5.0							
trans-1,2-Dichloroethene	U	5.0							
trans-1,3-Dichloropropene	U	5.0							
Trichloroethene	U	5.0							
Vinyl chloride	U	2.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	50.45	5.0	50	0	101	70 - 125			
Surr: 4-Bromofluorobenzene	50.24	5.0	50	0	100	72 - 125			
Surr: Dibromofluoromethane	49.33	5.0	50	0	98.7	71 - 125			
Surr: Toluene-d8	46.12	5.0	50	0	92.2	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260					
LCS		Sample ID: VLCSW-140418		Units: ug/L		Analysis Date: 18-Apr-2014 14:28			
Client ID:		Run ID: VOA6_232152		SeqNo: 2799114		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	51.01	5.0	50	0	102	80 - 120			
1,1,2,2-Tetrachloroethane	47.63	5.0	50	0	95.3	72 - 120			
1,1,2-Trichloroethane	48.31	5.0	50	0	96.6	80 - 120			
1,1-Dichloroethane	51.85	5.0	50	0	104	76 - 120			
1,1-Dichloroethene	54.01	5.0	50	0	108	73 - 124			
1,2,4-Trimethylbenzene	48.78	5.0	50	0	97.6	68 - 123			
1,2-Dibromoethane	48.52	5.0	50	0	97.0	80 - 120			
1,2-Dichloroethane	46.65	5.0	50	0	93.3	78 - 120			
1,2-Dichloropropane	49.73	5.0	50	0	99.5	80 - 120			
1,3,5-Trimethylbenzene	49.05	5.0	50	0	98.1	80 - 120			
2-Butanone	101.4	10	100	0	101	58 - 132			
2-Hexanone	95.75	10	100	0	95.7	61 - 130			
4-Isopropyltoluene	48.81	5.0	50	0	97.6	79 - 120			
4-Methyl-2-pentanone	101.2	10	100	0	101	65 - 127			
Acetone	112.6	10	100	0	113	59 - 137			
Benzene	49.14	5.0	50	0	98.3	73 - 121			
Bromodichloromethane	50.08	5.0	50	0	100	75 - 125			
Bromoform	51.72	5.0	50	0	103	70 - 130			
Bromomethane	41.34	5.0	50	0	82.7	60 - 145			
Carbon disulfide	105.7	10	100	0	106	68 - 141			
Carbon tetrachloride	49.82	5.0	50	0	99.6	75 - 125			
Chlorobenzene	48.69	5.0	50	0	97.4	80 - 120			
Chloroethane	48.3	5.0	50	0	96.6	70 - 130			
Chloroform	49.25	5.0	50	0	98.5	70 - 130			
Chloromethane	48.11	5.0	50	0	96.2	67 - 123			
cis-1,2-Dichloroethene	54.57	5.0	50	0	109	78 - 120			
cis-1,3-Dichloropropene	52.07	5.0	50	0	104	80 - 120			
Dibromochloromethane	50.59	5.0	50	0	101	80 - 120			
Ethylbenzene	50.28	5.0	50	0	101	80 - 120			
Isopropylbenzene	50.14	5.0	50	0	100	75 - 130			
m,p-Xylene	99.69	10	100	0	99.7	78 - 121			
Methyl tert-butyl ether	51.56	5.0	50	0	103	70 - 125			
Methylene chloride	54.62	10	50	0	109	65 - 133			
Naphthalene	48.83	5.0	50	0	97.7	65 - 135			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260	
LCS	Sample ID: VLCSW-140418	Units: ug/L		Analysis Date: 18-Apr-2014 14:28	
Client ID:	Run ID: VOA6_232152	SeqNo: 2799114		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
n-Butylbenzene	49.14	5.0	50	0 98.3	77 - 120
n-Propylbenzene	50.05	5.0	50	0 100	78 - 120
o-Xylene	49.8	5.0	50	0 99.6	80 - 120
sec-Butylbenzene	48.72	5.0	50	0 97.4	78 - 120
Styrene	51.71	5.0	50	0 103	80 - 120
Tetrachloroethene	49.74	5.0	50	0 99.5	79 - 120
Toluene	48.52	5.0	50	0 97.0	80 - 120
trans-1,2-Dichloroethene	53.26	5.0	50	0 107	78 - 120
trans-1,3-Dichloropropene	52.32	5.0	50	0 105	80 - 120
Trichloroethene	49.79	5.0	50	0 99.6	80 - 120
Vinyl chloride	50.19	2.0	50	0 100	70 - 127
Xylenes, Total	149.5	15	150	0 99.7	80 - 120
Surr: 1,2-Dichloroethane-d4	48.84	5.0	50	0 97.7	70 - 125
Surr: 4-Bromofluorobenzene	51.23	5.0	50	0 102	72 - 125
Surr: Dibromofluoromethane	49.58	5.0	50	0 99.2	71 - 125
Surr: Toluene-d8	50.31	5.0	50	0 101	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260	
MS		Sample ID: HS14040557-29MS		Units: ug/L	
Client ID: MW-27-0414		Run ID: VOA6_232152		Analysis Date: 18-Apr-2014 13:40	
		SeqNo: 2799112		PrepDate: DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
1,1,1-Trichloroethane	48.6	5.0	50	0 97.2	80 - 120
1,1,2,2-Tetrachloroethane	50.47	5.0	50	0 101	72 - 120
1,1,2-Trichloroethane	48.97	5.0	50	0 97.9	80 - 120
1,1-Dichloroethane	49.94	5.0	50	0 99.9	76 - 120
1,1-Dichloroethene	46.99	5.0	50	0 94.0	73 - 124
1,2,4-Trimethylbenzene	46.59	5.0	50	0 93.2	68 - 123
1,2-Dibromoethane	49.06	5.0	50	0 98.1	80 - 120
1,2-Dichloroethane	47.68	5.0	50	0 95.4	78 - 120
1,2-Dichloropropane	49.68	5.0	50	0 99.4	80 - 120
1,3,5-Trimethylbenzene	46.69	5.0	50	0 93.4	80 - 120
2-Butanone	105	10	100	0 105	58 - 132
2-Hexanone	104.4	10	100	0 104	61 - 130
4-Isopropyltoluene	44.26	5.0	50	0 88.5	79 - 120
4-Methyl-2-pentanone	108.5	10	100	0 109	65 - 127
Acetone	109.1	10	100	0 109	59 - 137
Benzene	48.7	5.0	50	0 97.4	73 - 121
Bromodichloromethane	49.8	5.0	50	0 99.6	75 - 125
Bromoform	52.71	5.0	50	0 105	70 - 130
Bromomethane	48.27	5.0	50	0 96.5	60 - 145
Carbon disulfide	100.1	10	100	0 100	68 - 141
Carbon tetrachloride	45.61	5.0	50	0 91.2	75 - 125
Chlorobenzene	47.26	5.0	50	0 94.5	80 - 120
Chloroethane	49.55	5.0	50	0 99.1	70 - 130
Chloroform	49.23	5.0	50	0 98.5	70 - 130
Chloromethane	49.56	5.0	50	0 99.1	67 - 123
cis-1,2-Dichloroethene	50.16	5.0	50	0 100	78 - 120
cis-1,3-Dichloropropene	51.83	5.0	50	0 104	80 - 120
Dibromochloromethane	50.39	5.0	50	0 101	80 - 120
Ethylbenzene	47.78	5.0	50	0 95.6	80 - 120
Isopropylbenzene	46.63	5.0	50	0 93.3	75 - 130
m,p-Xylene	95.47	10	100	0 95.5	78 - 121
Methyl tert-butyl ether	38.96	5.0	50	0 77.9	70 - 125
Methylene chloride	52.03	10	50	0 104	65 - 133
Naphthalene	48.72	5.0	50	0 97.4	65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260	
MS		Sample ID: HS14040557-29MS		Units: ug/L	
Client ID: MW-27-0414		Run ID: VOA6_232152		Analysis Date: 18-Apr-2014 13:40	
		SeqNo: 2799112		PrepDate:	
				DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
n-Butylbenzene	44.22	5.0	50	0 88.4	77 - 120
n-Propylbenzene	46.97	5.0	50	0 93.9	78 - 120
o-Xylene	48.6	5.0	50	0 97.2	80 - 120
sec-Butylbenzene	43.96	5.0	50	0 87.9	78 - 120
Styrene	49.38	5.0	50	0 98.8	80 - 120
Tetrachloroethene	46.57	5.0	50	0 93.1	79 - 120
Toluene	48.99	5.0	50	0 98.0	80 - 120
trans-1,2-Dichloroethene	49.08	5.0	50	0 98.2	78 - 120
trans-1,3-Dichloropropene	52.86	5.0	50	0 106	80 - 120
Trichloroethene	47.65	5.0	50	0 95.3	80 - 120
Vinyl chloride	52.03	2.0	50	0 104	70 - 127
Xylenes, Total	144.1	15	150	0 96.0	80 - 120
Surr: 1,2-Dichloroethane-d4	50.11	5.0	50	0 100	70 - 125
Surr: 4-Bromofluorobenzene	50.16	5.0	50	0 100	72 - 125
Surr: Dibromofluoromethane	50.26	5.0	50	0 101	71 - 125
Surr: Toluene-d8	50.06	5.0	50	0 100	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260						
MSD		Sample ID: HS14040557-29MSD		Units: ug/L		Analysis Date: 18-Apr-2014 14:04				
Client ID: MW-27-0414		Run ID: VOA6_232152		SeqNo: 2799113		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.16	5.0	50	0	100	80 - 120	48.6	3.16	20	
1,1,2,2-Tetrachloroethane	53.06	5.0	50	0	106	72 - 120	50.47	5.01	20	
1,1,2-Trichloroethane	51.88	5.0	50	0	104	80 - 120	48.97	5.77	20	
1,1-Dichloroethane	50.99	5.0	50	0	102	76 - 120	49.94	2.08	20	
1,1-Dichloroethene	48.69	5.0	50	0	97.4	73 - 124	46.99	3.56	20	
1,2,4-Trimethylbenzene	48.1	5.0	50	0	96.2	68 - 123	46.59	3.2	20	
1,2-Dibromoethane	52.36	5.0	50	0	105	80 - 120	49.06	6.52	20	
1,2-Dichloroethane	49.59	5.0	50	0	99.2	78 - 120	47.68	3.93	20	
1,2-Dichloropropane	51.89	5.0	50	0	104	80 - 120	49.68	4.36	20	
1,3,5-Trimethylbenzene	48.18	5.0	50	0	96.4	80 - 120	46.69	3.15	20	
2-Butanone	113.5	10	100	0	114	58 - 132	105	7.74	20	
2-Hexanone	116.1	10	100	0	116	61 - 130	104.4	10.6	20	
4-Isopropyltoluene	45.47	5.0	50	0	90.9	79 - 120	44.26	2.69	20	
4-Methyl-2-pentanone	119.6	10	100	0	120	65 - 127	108.5	9.72	20	
Acetone	116.8	10	100	0	117	59 - 137	109.1	6.83	20	
Benzene	49.82	5.0	50	0	99.6	73 - 121	48.7	2.26	20	
Bromodichloromethane	52.07	5.0	50	0	104	75 - 125	49.8	4.46	20	
Bromoform	55.71	5.0	50	0	111	70 - 130	52.71	5.53	20	
Bromomethane	47.96	5.0	50	0	95.9	60 - 145	48.27	0.654	20	
Carbon disulfide	102.8	10	100	0	103	68 - 141	100.1	2.65	20	
Carbon tetrachloride	45.18	5.0	50	0	90.4	75 - 125	45.61	0.96	20	
Chlorobenzene	49.9	5.0	50	0	99.8	80 - 120	47.26	5.43	20	
Chloroethane	52.24	5.0	50	0	104	76 - 121	49.55	5.29	20	
Chloroform	52.04	5.0	50	0	104	70 - 130	49.23	5.55	20	
Chloromethane	51.43	5.0	50	0	103	67 - 123	49.56	3.7	20	
cis-1,2-Dichloroethene	53.56	5.0	50	0	107	78 - 120	50.16	6.56	20	
cis-1,3-Dichloropropene	54.91	5.0	50	0	110	80 - 120	51.83	5.77	20	
Dibromochloromethane	54.5	5.0	50	0	109	80 - 120	50.39	7.84	20	
Ethylbenzene	50.33	5.0	50	0	101	80 - 120	47.78	5.2	20	
Isopropylbenzene	49.13	5.0	50	0	98.3	75 - 130	46.63	5.23	20	
m,p-Xylene	100.2	10	100	0	100	78 - 121	95.47	4.83	20	
Methyl tert-butyl ether	53.72	5.0	50	0	107	70 - 125	38.96	31.8	20	R
Methylene chloride	54.96	10	50	0	110	65 - 133	52.03	5.48	20	
Naphthalene	52.2	5.0	50	0	104	65 - 135	48.72	6.9	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260						
MSD		Sample ID: HS14040557-29MSD		Units: ug/L		Analysis Date: 18-Apr-2014 14:04				
Client ID: MW-27-0414		Run ID: VOA6_232152		SeqNo: 2799113		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	44.69	5.0	50	0	89.4	77 - 120	44.22	1.05	20	
n-Propylbenzene	46.59	5.0	50	0	93.2	78 - 120	46.97	0.798	20	
o-Xylene	51.02	5.0	50	0	102	80 - 120	48.6	4.85	20	
sec-Butylbenzene	44.82	5.0	50	0	89.6	78 - 120	43.96	1.92	20	
Styrene	52.21	5.0	50	0	104	80 - 120	49.38	5.58	20	
Tetrachloroethene	48.39	5.0	50	0	96.8	79 - 120	46.57	3.83	20	
Toluene	50.03	5.0	50	0	100	80 - 120	48.99	2.1	20	
trans-1,2-Dichloroethene	50.6	5.0	50	0	101	78 - 120	49.08	3.05	20	
trans-1,3-Dichloropropene	55.62	5.0	50	0	111	80 - 120	52.86	5.09	20	
Trichloroethene	49.89	5.0	50	0	99.8	80 - 120	47.65	4.58	20	
Vinyl chloride	51.5	2.0	50	0	103	70 - 127	52.03	1.02	20	
Xylenes, Total	151.2	15	150	0	101	78 - 121	144.1	4.83	20	
Surr: 1,2-Dichloroethane-d4	50.04	5.0	50	0	100	70 - 125	50.11	0.143	20	
Surr: 4-Bromofluorobenzene	50.98	5.0	50	0	102	72 - 125	50.16	1.63	20	
Surr: Dibromofluoromethane	50.43	5.0	50	0	101	71 - 125	50.26	0.328	20	
Surr: Toluene-d8	50.35	5.0	50	0	101	75 - 125	50.06	0.57	20	

The following samples were analyzed in this batch:

HS14040557-19	HS14040557-21	HS14040557-23	HS14040557-25
HS14040557-27	HS14040557-29	HS14040557-31	HS14040557-33
HS14040557-35	HS14040557-37	HS14040557-41	HS14040557-42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R231920		Instrument: Balance1		Method: M2540C					
MBLK	Sample ID: WBLK-041414	Units: mg/L		Analysis Date: 14-Apr-2014 17:50					
Client ID:	Run ID: Balance1_231920	SeqNo: 2793197		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0						
LCS	Sample ID: WLCS-041414	Units: mg/L		Analysis Date: 14-Apr-2014 17:50					
Client ID:	Run ID: Balance1_231920	SeqNo: 2793198		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		1000	10.0	1000	0	100.0	85 - 115	0	
DUP	Sample ID: HS14040557-23DUP	Units: mg/L		Analysis Date: 14-Apr-2014 17:50					
Client ID: MW-88-0414	Run ID: Balance1_231920	SeqNo: 2793195		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		7160	10.0				7340	2.48	10
DUP	Sample ID: HS14040557-01DUP	Units: mg/L		Analysis Date: 14-Apr-2014 17:50					
Client ID: MW-4A-0414	Run ID: Balance1_231920	SeqNo: 2793199		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		5560	10.0				5600	0.717	10
The following samples were analyzed in this batch:									
HS14040557-01		HS14040557-03		HS14040557-05		HS14040557-07			
HS14040557-09		HS14040557-11		HS14040557-13		HS14040557-15			
HS14040557-17		HS14040557-19		HS14040557-21		HS14040557-23			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232000		Instrument: Balance1		Method: M2540C					
MBLK	Sample ID: WBLK-041514	Units: mg/L		Analysis Date: 15-Apr-2014 17:50					
Client ID:	Run ID: Balance1_232000	SeqNo: 2795339		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0						
LCS	Sample ID: WLCS-041514	Units: mg/L		Analysis Date: 15-Apr-2014 17:50					
Client ID:	Run ID: Balance1_232000	SeqNo: 2795340		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		1018	10.0	1000	0 102	85 - 115			
DUP	Sample ID: HS14040556-06DUP	Units: mg/L		Analysis Date: 15-Apr-2014 17:50					
Client ID:	Run ID: Balance1_232000	SeqNo: 2795330		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		42340	10.0			41320	2.44	10	
DUP	Sample ID: HS14040362-01DUP	Units: mg/L		Analysis Date: 15-Apr-2014 17:50					
Client ID:	Run ID: Balance1_232000	SeqNo: 2795318		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		570	10.0			556	2.49	10	
The following samples were anayzed in this batch:									
HS14040557-25		HS14040557-27		HS14040557-42					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232077		Instrument: Balance1		Method: M2540C						
MBLK	Sample ID: WBLK-041614	Units: mg/L			Analysis Date: 16-Apr-2014 17:50					
Client ID:		Run ID: Balance1_232077	SeqNo: 2797136		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: WLCS-041614	Units: mg/L			Analysis Date: 16-Apr-2014 17:50					
Client ID:		Run ID: Balance1_232077	SeqNo: 2797137		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1004	10.0	1000	0	100	85 - 115			
DUP	Sample ID: HS14040687-02DUP	Units: mg/L			Analysis Date: 16-Apr-2014 17:50					
Client ID:		Run ID: Balance1_232077	SeqNo: 2797134		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		590	10.0				636	7.5	10	
DUP	Sample ID: HS14040609-02DUP	Units: mg/L			Analysis Date: 16-Apr-2014 17:50					
Client ID:		Run ID: Balance1_232077	SeqNo: 2797130		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		34980	10.0				35200	0.627	10	
The following samples were analyzed in this batch:				HS14040557-29	HS14040557-31	HS14040557-33	HS14040557-35			
				HS14040557-37	HS14040557-39					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232506		Instrument: ICS3K2		Method: E300	
MBLK	Sample ID: WBLKW1	Units: mg/L		Analysis Date: 23-Apr-2014 20:22	
Client ID:	Run ID: ICS3K2_232506	SeqNo: 2807784		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	U	0.500
Fluoride	U	0.100
Sulfate	U	0.500

LCS	Sample ID: WLCSW1	Units: mg/L		Analysis Date: 23-Apr-2014 20:46	
Client ID:	Run ID: ICS3K2_232506	SeqNo: 2807785		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	21.8	0.500	20	0	109	90 - 110
Fluoride	4.378	0.100	4	0	109	90 - 110
Sulfate	20.6	0.500	20	0	103	90 - 110

MS	Sample ID: HS14040847-02MS	Units: mg/L		Analysis Date: 24-Apr-2014 07:14	
Client ID:	Run ID: ICS3K2_232506	SeqNo: 2807804		PrepDate:	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	542.5	5.00	100	438.8	104	80 - 120	O
Fluoride	23.61	1.00	20	0.155	117	80 - 120	
Sulfate	130.8	5.00	100	0	131	80 - 120	S

MSD	Sample ID: HS14040847-02MSD	Units: mg/L		Analysis Date: 24-Apr-2014 07:38	
Client ID:	Run ID: ICS3K2_232506	SeqNo: 2807805		PrepDate:	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	537.6	5.00	100	438.8	98.9	80 - 120	542.5	0.898	20	O
Fluoride	23.65	1.00	20	0.155	117	80 - 120	23.61	0.182	20	
Sulfate	130.8	5.00	100	0	131	80 - 120	130.8	0	20	S

The following samples were analyzed in this batch:

HS14040557-33	HS14040557-35	HS14040557-37	HS14040557-39
HS14040557-42			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232565		Instrument: ICS3K2		Method: E300	
MBLK	Sample ID: WBLKW1	Units: mg/L		Analysis Date: 24-Apr-2014 19:27	
Client ID:	Run ID: ICS3K2_232565	SeqNo: 2809506		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	0.308	0.500			J
Sulfate	U	0.500			

LCS	Sample ID: WLCSW1	Units: mg/L		Analysis Date: 24-Apr-2014 19:51	
Client ID:	Run ID: ICS3K2_232565	SeqNo: 2809507		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	21.97	0.500	20	0 110	90 - 110
Sulfate	21.23	0.500	20	0 106	90 - 110

MS	Sample ID: HS14041025-01MS	Units: mg/L		Analysis Date: 24-Apr-2014 21:52	
Client ID:	Run ID: ICS3K2_232565	SeqNo: 2809512		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	27.86	0.500	10	16.27 116	80 - 120
Sulfate	86.81	0.500	10	78.27 85.4	80 - 120 O

MSD	Sample ID: HS14041025-01MSD	Units: mg/L		Analysis Date: 24-Apr-2014 22:16	
Client ID:	Run ID: ICS3K2_232565	SeqNo: 2809513		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	27.78	0.500	10	16.27 115	80 - 120 27.86 0.309 20
Sulfate	87.31	0.500	10	78.27 90.4	80 - 120 86.81 0.572 20 O

The following samples were analyzed in this batch: HS14040557-35 HS14040557-37 HS14040557-39 HS14040557-42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232593		Instrument: UV-2450		Method: SW9012	
MBLK	Sample ID: MBLK-232593	Units: mg/L		Analysis Date: 26-Apr-2014 12:43	
Client ID:	Run ID: UV-2450_232593	SeqNo: 2810311		PrepDate: 21-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	U	0.0200			

LCS	Sample ID: LCS-232593	Units: mg/L		Analysis Date: 26-Apr-2014 12:43	
Client ID:	Run ID: UV-2450_232593	SeqNo: 2810312		PrepDate: 21-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.19	0.0200	0.2	0 95.0	80 - 120

LCSD	Sample ID: LCSD-232593	Units: mg/L		Analysis Date: 26-Apr-2014 12:43	
Client ID:	Run ID: UV-2450_232593	SeqNo: 2810313		PrepDate: 21-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.191	0.0200	0.2	0 95.5	80 - 120 0.19 0.525 20

MS	Sample ID: HS14040458-06MS	Units: mg/L		Analysis Date: 26-Apr-2014 12:43	
Client ID:	Run ID: UV-2450_232593	SeqNo: 2810314		PrepDate: 21-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.175	0.0200	0.2	0.001 87.0	80 - 120

The following samples were analyzed in this batch:					
HS14040557-07		HS14040557-09		HS14040557-11	
HS14040557-17		HS14040557-33			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232621		Instrument: ICS2100		Method: E300	
MBLK	Sample ID: WBLKW2	Units: mg/L		Analysis Date: 25-Apr-2014 23:31	
Client ID:	Run ID: ICS2100_232621	SeqNo: 2811062		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	U	0.500			
Sulfate	U	0.500			

LCS	Sample ID: WLCSW2	Units: mg/L		Analysis Date: 25-Apr-2014 23:45	
Client ID:	Run ID: ICS2100_232621	SeqNo: 2811063		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	20.8	0.500	20	0 104	90 - 110
Sulfate	20.32	0.500	20	0 102	90 - 110

MS	Sample ID: HS14040557-42MS	Units: mg/L		Analysis Date: 26-Apr-2014 03:38	
Client ID: MW-123-0414	Run ID: ICS2100_232621	SeqNo: 2811079		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	2396	25.0	500	1679 144	80 - 120 S
Sulfate	2546	25.0	500	2049 99.4	80 - 120 O

MSD	Sample ID: HS14040557-42MSD	Units: mg/L		Analysis Date: 26-Apr-2014 03:53	
Client ID: MW-123-0414	Run ID: ICS2100_232621	SeqNo: 2811080		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	2392	25.0	500	1679 143	80 - 120 2396 0.181 20 S
Sulfate	2582	25.0	500	2049 107	80 - 120 2546 1.41 20 O

The following samples were analyzed in this batch:					
HS14040557-35		HS14040557-39		HS14040557-42	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232678		Instrument: ICS2100		Method: E300	
MBLK	Sample ID: WBLKW2	Units: mg/L		Analysis Date: 26-Apr-2014 04:36	
Client ID:	Run ID: ICS2100_232678	SeqNo: 2812050		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	U	0.500
Fluoride	U	0.100
Sulfate	U	0.500

LCS	Sample ID: WLCSW2	Units: mg/L		Analysis Date: 26-Apr-2014 04:51	
Client ID:	Run ID: ICS2100_232678	SeqNo: 2812051		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	20.75	0.500	20	0	104	90 - 110
Fluoride	3.656	0.100	4	0	91.4	90 - 110
Sulfate	20.13	0.500	20	0	101	90 - 110

MS	Sample ID: HS14040557-31MS	Units: mg/L		Analysis Date: 26-Apr-2014 08:58	
Client ID: MW-89-0414	Run ID: ICS2100_232678	SeqNo: 2812068		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	819	25.0	500	256.9	112	80 - 120
Fluoride	92.72	5.00	100	2.399	90.3	80 - 120
Sulfate	2514	25.0	500	1684	166	80 - 120 S

MSD	Sample ID: HS14040557-31MSD	Units: mg/L		Analysis Date: 26-Apr-2014 09:13	
Client ID: MW-89-0414	Run ID: ICS2100_232678	SeqNo: 2812069		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	801.1	25.0	500	256.9	109	80 - 120	819	2.2	20
Fluoride	99.12	5.00	100	2.399	96.7	80 - 120	92.72	6.68	20
Sulfate	2510	25.0	500	1684	165	80 - 120	2514	0.163	20 S

The following samples were analyzed in this batch:				HS14040557-01	HS14040557-03	HS14040557-05	HS14040557-07
				HS14040557-09	HS14040557-11	HS14040557-13	HS14040557-15
				HS14040557-17	HS14040557-19	HS14040557-21	HS14040557-23
				HS14040557-25	HS14040557-27	HS14040557-29	HS14040557-31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232786		Instrument: ICS2100		Method: E300	
MBLK	Sample ID: WBLKW1	Units: mg/L		Analysis Date: 28-Apr-2014 12:33	
Client ID:	Run ID: ICS2100_232786	SeqNo: 2814242		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride U 0.500

Sulfate U 0.500

LCS	Sample ID: WLCSW1	Units: mg/L		Analysis Date: 28-Apr-2014 12:48	
Client ID:	Run ID: ICS2100_232786	SeqNo: 2814243		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride 19.23 0.500 20 0 96.1 90 - 110

Sulfate 18.59 0.500 20 0 92.9 90 - 110

MS	Sample ID: HS14040917-01MS	Units: mg/L		Analysis Date: 28-Apr-2014 19:09	
Client ID:	Run ID: ICS2100_232786	SeqNo: 2814249		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride 24.44 0.500 10 13.06 114 80 - 120

Sulfate 12.32 0.500 10 1.825 105 80 - 120

MSD	Sample ID: HS14040917-01MSD	Units: mg/L		Analysis Date: 28-Apr-2014 19:24	
Client ID:	Run ID: ICS2100_232786	SeqNo: 2814250		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride 24.24 0.500 10 13.06 112 80 - 120 24.44 0.83 20

Sulfate 12.63 0.500 10 1.825 108 80 - 120 12.32 2.53 20

The following samples were analyzed in this batch: HS14040557-17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232888		Instrument: ICS2100		Method: E300	
MBLK	Sample ID: WBLKW2	Units: mg/L		Analysis Date: 28-Apr-2014 22:45	
Client ID:	Run ID: ICS2100_232888	SeqNo: 2816302		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	U	0.500			
Sulfate	U	0.500			

LCS	Sample ID: WLCSW2	Units: mg/L		Analysis Date: 28-Apr-2014 22:59	
Client ID:	Run ID: ICS2100_232888	SeqNo: 2816303		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	20.77	0.500	20	0 104	90 - 110
Sulfate	19.46	0.500	20	0 97.3	90 - 110

MS	Sample ID: HS14040662-04MSZ	Units: mg/L		Analysis Date: 29-Apr-2014 06:01	
Client ID:	Run ID: ICS2100_232888	SeqNo: 2816327		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	56.33	2.50	50	3.654 105	80 - 120
Sulfate	1921	2.50	50	1935 -27.1	80 - 120 SEO

MSD	Sample ID: HS14040662-04MSDZ	Units: mg/L		Analysis Date: 29-Apr-2014 06:16	
Client ID:	Run ID: ICS2100_232888	SeqNo: 2816328		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	56.98	2.50	50	3.654 107	80 - 120 56.33 1.14 20
Sulfate	1963	2.50	50	1935 56.5	80 - 120 1921 2.15 20 SEO

The following samples were analyzed in this batch: HS14040557-11 HS14040557-13 HS14040557-17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040557
 Project: SA-Artesia Refinery -Sitewide GW

QC BATCH REPORT

Batch ID: R232934		Instrument: ICS3K2		Method: E300	
MBLK	Sample ID: WBLKW	Units: mg/L		Analysis Date: 27-Apr-2014 19:34	
Client ID:	Run ID: ICS3K2_232934	SeqNo: 2817183		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Nitrate/Nitrite (as N) U 0.200

LCS	Sample ID: WLCSW	Units: mg/L		Analysis Date: 27-Apr-2014 19:58	
Client ID:	Run ID: ICS3K2_232934	SeqNo: 2817184		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Nitrate/Nitrite (as N) 8.201 0.200 8 0 103 90 - 110

MS	Sample ID: HS14040557-42MS	Units: mg/L		Analysis Date: 26-Apr-2014 16:29	
Client ID: MW-123-0414	Run ID: ICS3K2_232934	SeqNo: 2817179		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Nitrate/Nitrite (as N) 17.45 1.00 20 0 87.2 80 - 120

MSD	Sample ID: HS14040557-42MSD	Units: mg/L		Analysis Date: 26-Apr-2014 16:53	
Client ID: MW-123-0414	Run ID: ICS3K2_232934	SeqNo: 2817180		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Nitrate/Nitrite (as N) 17.41 1.00 20 0 87.0 80 - 120 17.45 0.241 20

The following samples were analyzed in this batch:				
HS14040557-01	HS14040557-03	HS14040557-05	HS14040557-07	
HS14040557-09	HS14040557-11	HS14040557-13	HS14040557-15	
HS14040557-17	HS14040557-19	HS14040557-21	HS14040557-23	
HS14040557-25	HS14040557-27	HS14040557-29	HS14040557-31	
HS14040557-33	HS14040557-35	HS14040557-37	HS14040557-39	
HS14040557-42				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
WorkOrder: HS14040557

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	AR - 2014	27-Mar-2015
California	2919	31-Jul-2015
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003403	09-May-2015
Kansas	E-10352 8/15/2013-2014	01-Oct-2014
Kentucky	KY 2014-2015	30-Apr-2015
Louisiana	03087 2014/2015	30-Jun-2015
North Carolina	624 - 2014	31-Dec-2014
North Dakota	R-193 2025	30-Apr-2015
Oklahoma	2014-128	31-Aug-2015
Texas	TX104704231-14-13	30-Apr-2015

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Work Order: HS14040557

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS14040557-01	MW-4A-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-01	MW-4A-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-02	MW-4A-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-03	MW-5A-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-03	MW-5A-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-04	MW-5A-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-05	MW-7A-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-05	MW-7A-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-06	MW-7A-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-07	EB-5-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-07	EB-5-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-08	EB-5-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-09	OCD-8A-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-09	OCD-8A-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-10	OCD-8A-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-11	DUP-4-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-11	DUP-4-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-12	DUP-4-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-13	EB-6-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-13	EB-6-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-14	EB-6-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-15	MW-87-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-15	MW-87-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-16	MW-87-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-17	MW-18A-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-18	MW-18A-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-19	MW-70-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-19	MW-70-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-20	MW-70-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-21	MW-124-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-21	MW-124-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-22	MW-124-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-23	MW-88-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-23	MW-88-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-24	MW-88-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-25	MW-22A-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-25	MW-22A-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-26	MW-22A-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-27	MW-10-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-27	MW-10-0414	Login	13-Apr-14 12:48	DRC	BTEX A1

Client: Navajo Refining Company
Project: SA-Artesia Refinery -Sitewide GW
Work Order: HS14040557

SAMPLE TRACKING

HS14040557-28	MW-10-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-29	MW-27-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-30	MW-27-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-31	MW-89-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-32	MW-89-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-33	EB-7-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-33	EB-7-0414	Login	13-Apr-14 12:48	DRC	BTEX A1
HS14040557-34	EB-7-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-35	MW-16-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-36	MW-16-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-37	MW-26-0414	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-38	MW-26-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-39	MW-17-0414	Login	13-Apr-14 12:48	DRC	13B
HS14040557-39	MW-17-0414	Login	13-Apr-14 12:48	DRC	13B
HS14040557-39	MW-17-0414	Login	13-Apr-14 12:48	DRC	13B
HS14040557-39	MW-17-0414	Login	13-Apr-14 12:48	DRC	TPH C2
HS14040557-40	MW-17-0414-D	Login	13-Apr-14 12:48	DRC	13B
HS14040557-41	Trip Blank 032814-13	Login	13-Apr-14 12:48	DRC	VW-1
HS14040557-42	MW-123-0414	Login	13-Apr-14 01:20	DRC	VW-1
HS14040557-42	MW-123-0414	Login	13-Apr-14 01:20	DRC	BTEX A1
HS14040557-43	MW-123-0414-D	Login	13-Apr-14 01:20	DRC	13B

Sample Receipt Checklist

Client Name: Navajo Refining
Work Order: HS14040557

Date/Time Received: **09-Apr-2014 09:25**
Received by: **ECD**

Checklist completed by: Dana.Capps 13-Apr-2014
eSignature Date

Reviewed by: Sonia West
eSignature Date

Matrices: **Water**Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):	0.6/0.6 3.2/3.2 3.6/3.6 4.0/4.0 0.5/0.5 2.5/2.5 C/U	IR1
Cooler(s)/Kit(s):	1523 1608 5408 5923 2766 2926	
Date/Time sample(s) sent to storage:	04/13/2014	
Water - VOA vials have zero headspace?	Yes ☒	No ☐ No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐ N/A ☐
pH adjusted?	Yes ☐	No ☒ N/A ☐
pH adjusted by:		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:



COC ID: 93382

Navajo Refining Company
SA-Artesia Refinery -Sitewide GW



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South Charleston, WV
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York, PA
+1 717 505 5280

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	438884 173653	Project Name	SA- Artesia Refinery-Sitewide GW			Parameter/Method Request for Analysis	
Work Order		Project Number				A VOC (8260) Select	
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company			B GRO (8015M)	
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez			C DRO (3015M)	
Address	PO Box 159	Address	PO Box 159			D Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se	
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211			E Total Metals (6020/7470) Hg, Ni, V	
Phone	(575) 748-6733	Phone	(575) 748-6733			F Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS	
Fax	(575) 746-5421	Fax	(575) 746-5421			G Cyanide (9014)	
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com			H Nitrate/Nitrite as N (preserved)	
						I Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se	
						J Dis. Metals (6020/7470) Hg, Ni, V	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw-18A-0414	04/08/14	1025	fw	2,3,8	7			X	X	X	X	X	X			
2	mw-18A-0414-D	04/08/14	1025	fw	2,8	1									X	X	
3	mw-70-0414	04/08/14	1110	fw	2,3,8	6			X	X		X		X			
4	mw-70-0414-D	04/08/14	1110	fw	2,8	1									X		
5	mw-124-0414	04/08/14	1110	fw	2,3,8	6			X	X		X		X			
6	mw-124-0414-D	04/08/14	1140	fw	2,8	1									X		
7	mw-88-0414	04/08/14	1245	fw	2,3,8	6			X	X		X		X			
8	mw-88-0414-D	04/08/14	1245	fw	2,8	1									X		
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Soss, Jerry Sonfurn		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour			
Relinquished by:		Date:		Time:		Notes:	
Sonfurn		04/09/14		1530		10 Work Days TAT. CC Pam Krueger/Arcadis	
Received by (Laboratory):		Date:		Time:		Cooler ID	
E. J. 4-10-14-9:25						Cooler Temp.	
Checked by (Laboratory):		Date:		Time:		QC Package: (Check One Box Below)	
						☒ Level II Std QC ☐ TRRP CheckList	
						☐ Level III Std QC/Raw Data ☐ TRRP Level IV	
						☐ Level IV SW/845/CLP	
						☐ Other / EDD	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

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South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	173653	Project Name	SA- Artesia Refinery-TMD SA GW			Parameter/Method Request for Analysis	
Work Order		Project Number				A VOC (8260) Select	
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company			B GRO (8015M)	
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez			C DRO (8015M)	
Address	PO Box 159	Address	PO Box 159			D Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se	
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211			E Total Metals (6020/7470) Hg, Ni, V	
Phone	(575) 748-6733	Phone	(575) 748-6733			F Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS	
Fax	(575) 748-5421	Fax	(575) 748-5421			G Cyanide (9014)	
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com			H Nitrate/Nitrite as N (preserved)	
						I Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se	
						J Dis. Metals (6020/7470) Hg, Ni, V	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WW-22A-0414	04/08/14	1315	H2O	2,3,8	6			X	X	X			X			
2	WW-22A-0414-D	04/08/14	1315	H2O	2,8	1									X		
3	WW-10-0414	04/08/14	1345	H2O	2,3,8	6			X	X	X			X			
4	WW-10-0414-D	04/08/14	1345	H2O	2,8	1									X		
5	WW-123-0414	04/08/14	1415	H2O	2,3,8	6			X	X	X			X			
6	WW-123-0414-D	04/08/14	1415	H2O	2,8	1									X		
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Sara Serry		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour			
Relinquished by:		Date:	Time:	Received by:		Notes:	
Sara Serry		04/09/14	1500	E Davis 4-10-14-9:25		10 Work Days TAT. CC Pam Krueger/Arcadis	
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Cooler Temp.	
Preservative Key:		1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035					
		QC Package: (Check One Box Below) ☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SWB45/CLP ☐ Other / EDD					

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South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information		Project Information		ALS Project Manager: ALS Work Order #:																
Parameter/Method Request for Analysis																				
Purchase Order	438804 173654	Project Name	SA- Artesia Refinery-Sitewide GW	A	VOC (8260) Select															
Work Order		Project Number		B	GRO (8015M)															
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)															
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V															
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS															
Phone	(575) 748-6733	Phone	(575) 748-6733	G	Cyanide (9014)															
Fax	(575) 746-5421	Fax	(575) 746-5421	H	Nitrate/Nitrite as N (preserved)															
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
				J	Dis. Metals (6020/7470) Hg, Ni, V															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	mw-27-0414	04/09/14	0800	fw	2.3.8				X	X		X		X						
2	mw-27-0414-D	04/09/14	0800	fw	2.8										X					
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:												
Jose Jerry Jose Jerry		Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour																
Relinquished by:		Date:	Time:	Received by:		Notes:														
Jose Jerry		04/09/14	1500	E-Law 4-10-14-9.25		10 Work Days TAT. CC Pam Krueger/Arcadis														
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)												
								☒ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD												
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):																
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																				

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COC ID: 93396

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Customer Information						Project Information		Parameter/Method Request for Analysis																	
Purchase Order	73653-138604					Project Name	SA- Artesia Refinery-TMD SA GW		A	VOC (8260) Select															
Work Order						Project Number			B	GRO (8015M)															
Company Name	Navajo Refining Company					Bill To Company	Navajo Refining Company		C	DRO (8015M)															
Send Report To	Aaron Strange					Invoice Attn	Carrie Hernandez		D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
Address	PO Box 159					Address	PO Box 159		E	Total Metals (6020/7470) Hg, Ni, V															
									F	Anions (300) Cl, F, SO ₄ , Cations (Ca, Mg, K, Na) TDS															
City/State/Zip	Artesia, NM 88211					City/State/Zip	Artesia, NM 88211		G	Cyanide (9014)															
Phone	(575) 748-6733					Phone	(575) 748-6733		H	Nitrate/Nitrite as N (preserved)															
Fax	(575) 746-5421					Fax	(575) 746-5421		I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
e-Mail Address	robert.combs@navajo-refining.com					e-Mail Address	robert.combs@navajo-refining.com		J	Dis. Metals (6020/7470) Hg, Ni, V															
No.	Sample Description					Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold				
1	mw-17-0414					04/09/14	1045	Geo	23.8	6			X	X		X		X							
2	mw-17-0414-D					04/09/14	1045	Geo	2.8	1									X						
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
Sampler(s) Please Print & Sign S. S. Jerny						Shipment Method X		Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ Other _____ ☐ 2 WK Days ☐ 24 Hour						Results Due Date:											
Relinquished by: S. S. Jerny						Date: 04/09/14		Time: 1500		Received by: L. D. 4-10-14 - 9:25						Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis									
Relinquished by:						Date:		Time:		Received by (Laboratory):						Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)					
Logged by (Laboratory):						Date:		Time:		Checked by (Laboratory):										☒ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW845/CLP ☐ Other / EDD					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																									

Note:

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COC ID: 93383

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+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information			Project Information			Parameter/Method Request for Analysis													
Purchase Order	133653	Project Name	SA- Artesia Refinery-Sitewide GW			A	VOC (8260) Select												
Work Order		Project Number				B	GRO (8015M)												
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company			C	DRO (8015M)												
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez			D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
Address	PO Box 159	Address	PO Box 159			E	Total Metals (6020/7470) Hg, Ni, V												
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211			F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS												
Phone	(575) 748-8733	Phone	(575) 748-8733			G	Cyanide (9014)												
Fax	(575) 746-5421	Fax	(575) 746-5421			H	Nitrate/Nitrite as N (preserved)												
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com			I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
						J	Dis. Metals (6020/7470) Hg, Ni, V												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw-4A-0414	04/07/14	1235	HW	1.8	6	X	X									
2	mw-5A-0414	04/07/14	1305	HW	1.8	6	X	X									
3	mw-7A-0414	04/07/14	1335	HW	1.8	6	X	X									
4	EB-5-0414	04/07/14	1530	HW	1.8	6	X	X									
5	OCB-8A-0414	04/08/14	0900	HW	1.8	6	X	X									
6	Dwp-4-0414	04/08/14			1.8	6	X	X									
7	EB-6-0414	04/08/14	0925	HW	1.8	6	X	X									
8	mw-87-0414	04/08/14	0945	HW	1.8	6	X	X									
9	mw-18A-0414	04/08/14	1025	HW	1.8	3	X										
10	mw-70-0414	04/08/14	1110	HW	1.8	6	X	X									

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Sosa, Jerry Sosa		FEDX		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour			
Relinquished by:		Date:		Time:		Notes:	
Sosa, Jerry		04/09/14		1500		10 Work Days TAT. CC Pam Krueger/Arcadis	
Relinquished by:		Date:		Time:		Received by (Laboratory):	
						2020 4-14 9:25	
Logged by (Laboratory):		Date:		Time:		Checked by (Laboratory):	
Preservative Key:		1-HCl		2-HNO3		3-H2SO4	
		4-NaOH		5-Na2S2O3		6-NaHSO4	
		7-Other		8-4°C		9-5035	

Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)	
				☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other / EDD	
				☐ TRRP CheckList ☐ TRRP Level IV	

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COC ID: 93422

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Spring City, PA
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+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information			Project Information			Parameter/Method Request for Analysis																
Purchase Order	<u>173653</u>		Project Name	SA- Artesia Refinery-EP SA GW		A	VOC (8260) Select															
Work Order			Project Number			B	GRO (8015M)															
Company Name	Navajo Refining Company		Bill To Company	Navajo Refining Company		C	DRO (8015M)															
Send Report To	Aaron Strange		Invoice Attn	Carrie Hernandez		D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
Address	PO Box 159		Address	PO Box 159		E	Total Metals (6020/7470) Hg, Ni, V															
City/State/Zip	Artesia, NM 88211		City/State/Zip	Artesia, NM 88211		F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS															
Phone	(575) 748-6733		Phone	(575) 748-6733		G	Cyanide (9014)															
Fax	(575) 746-5421		Fax	(575) 746-5421		H	Nitrate/Nitrite as N (preserved)															
e-Mail Address	robert.combs@navajo-refining.com		e-Mail Address	robert.combs@navajo-refining.com		I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
						J	Dis. Metals (6020/7470) Hg, Ni, V															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold					
1	mw-124-0414	04/08/14	1140	H2O	1,8	6	X	X														
2	mw-88-0414	04/08/14	1245	H2O	1,8	6	X	X														
3	mw-22A-0414	04/08/14	1315	H2O	1,8	6	X	X														
4	mw-10-0414	04/08/14	1345	H2O	1,8	6	X	X														
5	mw-123-0414	04/08/14	1415	H2O	1,8	6	X	X														
6																						
7																						
8																						
9																						
10																						
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:														
<u>S. J. J. J.</u>		<u>FEU X</u>		☒ Std 10 Wk Days ☐ 5 Wk Days ☐ Other ☐ 2 Wk Days ☐ 24 Hour																		
Relinquished by:		Date:	Time:	Received by:				Notes:														
<u>S. J. J. J.</u>		<u>04/08/14</u>	<u>1300</u>	<u>6-10-14-9:25</u>				<u>10 Work Days TAT. CC Pam Krueger/Arcadis</u>														
Relinquished by:		Date:	Time:	Received by (Laboratory):				Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)												
										☒ Level II Std OC ☐ TRRP Check List												
										☐ Level III Std OC/Raw Data ☐ TRRP Level IV												
										☐ Level IV SW845/CLP												
										☐ Other / EDD												
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																						

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+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information				Project Information				ALS Project Manager:												ALS Work Order #:											
Parameter/Method Request for Analysis																															
Purchase Order	473408	173654	Project Name	SA- Artesia Refinery-NCL SA GW				A	VOC (8260) Select																						
Work Order			Project Number					B	GRO (8015M)																						
Company Name	Navajo Refining Company		Bill To Company	Navajo Refining Company				C	DRO (8015M)																						
Send Report To	Aaron Strange		Invoice Attn	Carrie Hernandez				D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se																						
Address	PO Box 159		Address	PO Box 159				E	Total Metals (6020/7470) Hg, Ni, V																						
City/State/Zip	Artesia, NM 88211		City/State/Zip	Artesia, NM 88211				F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS																						
Phone	(575) 748-6733		Phone	(575) 748-6733				G	Cyanide (9014)																						
Fax	(575) 748-5421		Fax	(575) 748-5421				H	Nitrate/Nitrite as N (preserved)																						
e-Mail Address	robert.combs@navajo-refining.com		e-Mail Address	robert.combs@navajo-refining.com				I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se																						
							J	Dis. Metals (6020/7470) Hg, Ni, V																							
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold														
1	mw-27-0414	04/09/14	0800	H2O	1.8	3	X																								
2	mw-89-0414	04/09/14	0835	H2O	1.8	3	X																								
3	EB-7-0414	04/09/14	0905	H2O	1.8	6	X	X																							
4	mw-16-0414	04/09/14	0930	H2O	1.8	3	X																								
5	mw-26-0414	04/09/14	1005	H2O	1.8	3	X																								
6	TPP Blank 032814-13	04/09/14	1000	H2O	1.8	2	X																								
7																															
8																															
9																															
10																															
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:																			
Sosa, Jerry Sosa				Fed X				☒ Std 10 W/K Days ☐ 5 W/K Days ☐ Other ☐ 2 W/K Days ☐ 24 Hour																							
Relinquished by:				Received by:				Notes:																							
Sosa, Jerry				E. L. A. 4-10-14-9:25				10 Work Days TAT. CC Pam Krueger/Arcadis																							
Relinquished by:				Received by (Laboratory):				Cooler ID				Cooler Temp.				QC Package: (Check One Box Below)															
Logged by (Laboratory):				Checked by (Laboratory):												☒ Level II Std QC ☐ TRRP Check List															
																☐ Level III Std QC/Raw Data ☐ TRRP Level IV															
																☐ Level IV SW845/CLP ☐ Other / EDD															
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																															

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AB SGRA		77099 TX-US IAH

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	Seal Broken By: [Signature]	
	Date: [Signature]	

TRK# 0201	5797 1186 9693	THU - 10 APR 10:30A PRIORITY OVERNIGHT
AB SGRA		77099 TX-US IAH

 ALS Environmental 10450 Stanciliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 6887	CUSTODY SEAL Date: 04/09/14 Time: 15:00 Name: [Signature] Company: [Signature]	
	Seal Broken By: [Signature]	
	Date: [Signature]	

TRK# 0201	5797 1186 9660	THU - 10 APR 10:30A PRIORITY OVERNIGHT
AB SGRA		77099 TX-US IAH

 ALS Environmental 10450 Stanciliff Rd., Suite 211 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL Date: 04/09/14 Time: 15:00 Name: [Signature] Company: [Signature]	
	Seal Broken By: [Signature]	
	Date: [Signature]	

TRK# 5797 1186 9708
 THU - 10 APR 10:30A
 PRIORITY OVERNIGHT
AB SGRA
 77099
 TX-US IAH

 ALS Environmental 10450 Stancil Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 04/09/14	Time: 1500	Date:
	Name: SGA	SGA	
	Company: SGA	SGA	

TRK# 5797 1186 9719
 THU - 10 APR 10:30A
 PRIORITY OVERNIGHT
AB SGRA
 77099
 TX-US IAH

 ALS Environmental 10450 Stancil Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 04/09/14	Time: 1500	Date:
	Name: SGA	SGA	
	Company: SGA	SGA	

TRK# 5797 1186 9671
 THU - 10 APR 10:30A
 PRIORITY OVERNIGHT
AB SGRA
 77099
 TX-US IAH

 ALS Environmental 10450 Stancil Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 04/09/14	Time: 1500	Date:
	Name: SGA	SGA	
	Company: SGA	SGA	



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Houston, TX 77099
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F: +1 281 530 5887
www.alsglobal.com

September 04, 2014

Aaron Strange
Navajo Refining Company
PO Box 1490
Artesia, NM 88211-1490

Work Order: **HS14040667**

Revision: **3**

Laboratory Results for: **SA Artesia Refinery-Sitewide GW**

Dear Aaron,

ALS Environmental received 34 sample(s) on Apr 12, 2014 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

A handwritten signature in cursive script that reads 'Bethany McDaniel'.

Generated By: Bethany.McDaniel
Bethany McDaniel
Project Manager

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Work Order: HS14040667

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040667-01	MW-68-0414	Water		10-Apr-2014 10:00	12-Apr-2014 09:20	☐
HS14040667-02	MW-68-0414-D	Water		10-Apr-2014 10:00	12-Apr-2014 09:20	☐
HS14040667-03	MW-71-0414	Water		10-Apr-2014 10:35	12-Apr-2014 09:20	☐
HS14040667-04	MW-71-0414-D	Water		10-Apr-2014 10:35	12-Apr-2014 09:20	☐
HS14040667-05	NP-1-0414	Water		10-Apr-2014 11:15	12-Apr-2014 09:20	☐
HS14040667-06	MW-20-0414	Water		10-Apr-2014 11:50	12-Apr-2014 09:20	☐
HS14040667-07	MW-20-0414-D	Water		10-Apr-2014 11:50	12-Apr-2014 09:20	☐
HS14040667-08	Dup-5-0414	Water		10-Apr-2014 00:00	12-Apr-2014 09:20	☐
HS14040667-09	Dup-5-0414-D	Water		10-Apr-2014 00:00	12-Apr-2014 09:20	☐
HS14040667-10	MW-8-0414	Water		10-Apr-2014 12:35	12-Apr-2014 09:20	☐
HS14040667-11	MW-8-0414-D	Water		10-Apr-2014 12:35	12-Apr-2014 09:20	☐
HS14040667-12	MW-21-0414	Water		10-Apr-2014 13:15	12-Apr-2014 09:20	☐
HS14040667-13	MW-21-0414-D	Water		10-Apr-2014 13:15	12-Apr-2014 09:20	☐
HS14040667-14	EB-8-0414	Water		10-Apr-2014 13:20	12-Apr-2014 09:20	☐
HS14040667-15	EB-8-1414-D	Water		10-Apr-2014 13:20	12-Apr-2014 09:20	☐
HS14040667-16	MW-135-0414	Water		10-Apr-2014 13:50	12-Apr-2014 09:20	☐
HS14040667-17	MW-135-0414-D	Water		10-Apr-2014 13:50	12-Apr-2014 09:20	☐
HS14040667-18	MW-57-0414	Water		10-Apr-2014 14:50	12-Apr-2014 09:20	☐
HS14040667-19	MW-57-0414-D	Water		10-Apr-2014 14:50	12-Apr-2014 09:20	☐
HS14040667-20	KWB-12B-0414	Water		11-Apr-2014 08:15	12-Apr-2014 09:20	☐
HS14040667-21	KWB-12B-0414-D	Water		11-Apr-2014 08:15	12-Apr-2014 09:20	☐
HS14040667-22	Dup-6-0414	Water		11-Apr-2014 00:00	12-Apr-2014 09:20	☐
HS14040667-23	Dup-6-0414-D	Water		11-Apr-2014 00:00	12-Apr-2014 09:20	☐
HS14040667-24	MW-113-0414	Water		11-Apr-2014 09:30	12-Apr-2014 09:20	☐
HS14040667-25	MW-113-01414-D	Water		11-Apr-2014 09:30	12-Apr-2014 09:20	☐
HS14040667-26	EB-9-0414	Water		11-Apr-2014 09:45	12-Apr-2014 09:20	☐
HS14040667-27	EB-9-0414-D	Water		11-Apr-2014 09:45	12-Apr-2014 09:20	☐

Revision:3

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Work Order: HS14040667

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040667-28	MW-134-0414	Water		11-Apr-2014 10:15	12-Apr-2014 09:20	☐
HS14040667-29	MW-134-0414-D	Water		11-Apr-2014 10:15	12-Apr-2014 09:20	☐
HS14040667-30	KWB-1A-0414	Water		11-Apr-2014 10:45	12-Apr-2014 09:20	☐
HS14040667-31	KWB-1A-0414-D	Water		11-Apr-2014 10:45	12-Apr-2014 09:20	☐
HS14040667-32	RW-18-0414	Water		11-Apr-2014 11:20	12-Apr-2014 09:20	☐
HS14040667-33	RW-18-0414-D	Water		11-Apr-2014 11:20	12-Apr-2014 09:20	☐
HS14040667-34	TB-032814-15	Water		11-Apr-2014 15:00	12-Apr-2014 09:20	☐

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Work Order: HS14040667

CASE NARRATIVE

This report was revised on September 3, 2014 to report to the MDL per client request

Report was revised July 30, 2014 to change sample ID Dup-5/0414-D to Dup-5-0414-D.

Report was revised July 24, 2014 to correct metals analyte list.

Samples were analyzed for Total and Dissolved Metals at a dilution due to matrix interference from non-target analytes. The lowest possible dilution was analyzed.

Batch 81069, Total Metals 6020, Sample HS14040425-01: MS/MSD and Serial Dilution (SD) are for an unrelated sample.

Batch 81215, Total Metals 6020, Sample MW-68-0414-D: MS/MSD and PDS recoveries for Selenium were outside of the control limits due to matrix interference. The Serial Dilution RPD was outside of the control limits.

Batch 81269, Total Metals 6020, Sample HS14040638-01: MS/MSD and Serial Dilution (SD) are for an unrelated sample.

Batch R232142, Volatile Organics 8260, Sample HS14040762-01: MS/MSD and MSD RPD are for an unrelated sample.

Batch R232152, Volatile Organics 8260, Sample HS14040557-29: MSD RPD was for an unrelated sample.

Batch R232323, Volatile Organics 8260, Sample MW-113-0414: MS recovery was outside of the control limits for Benzene. The LCS and MSD RPD was within the control limits.

Batch R232798, Anions 300, Sample RW-18-0414: MS/MSD recoveries were outside of the control limits due to matrix interference for Chloride and Sulfate.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-68-0414
 Collection Date: 10-Apr-2014 10:00

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	17-Apr-2014 18:16
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	17-Apr-2014 18:16
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	17-Apr-2014 18:16
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
2-Butanone	U		0.0010	0.010	mg/L	1	17-Apr-2014 18:16
2-Hexanone	U		0.0010	0.010	mg/L	1	17-Apr-2014 18:16
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	17-Apr-2014 18:16
Acetone	U		0.0020	0.010	mg/L	1	17-Apr-2014 18:16
Benzene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
Bromoform	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
Bromomethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
Carbon disulfide	U		0.00090	0.010	mg/L	1	17-Apr-2014 18:16
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
Chlorobenzene	U		0.00040	0.0050	mg/L	1	17-Apr-2014 18:16
Chloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
Chloroform	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
Chloromethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
Ethylbenzene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
m,p-Xylene	U		0.00060	0.010	mg/L	1	17-Apr-2014 18:16
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
Methylene chloride	U		0.0010	0.010	mg/L	1	17-Apr-2014 18:16
Naphthalene	U		0.00070	0.0050	mg/L	1	17-Apr-2014 18:16
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	17-Apr-2014 18:16
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
o-Xylene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
Styrene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
Toluene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	17-Apr-2014 18:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-68-0414
 Collection Date: 10-Apr-2014 10:00

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:16
Trichloroethene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:16
Vinyl chloride	U		0.00040	0.0020	mg/L	1	17-Apr-2014 18:16
Xylenes, Total	U		0.0015	0.015	mg/L	1	17-Apr-2014 18:16
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	17-Apr-2014 18:16
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	17-Apr-2014 18:16
Surr: Dibromofluoromethane	102			71-125	%REC	1	17-Apr-2014 18:16
Surr: Toluene-d8	99.4			75-125	%REC	1	17-Apr-2014 18:16
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.00325	J	0.00200	0.0100	mg/L	2	03-May-2014 02:07
Barium	0.0142		0.00180	0.0100	mg/L	2	03-May-2014 02:07
Calcium	375		0.670	5.00	mg/L	10	06-May-2014 21:23
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 02:07
Iron	U		0.100	0.400	mg/L	2	03-May-2014 02:07
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 02:07
Manganese	U		0.00500	0.0100	mg/L	2	03-May-2014 02:07
Potassium	4.84		0.100	0.400	mg/L	2	03-May-2014 02:07
Selenium	0.0248		0.00200	0.0100	mg/L	2	03-May-2014 02:07
Sodium	207		0.100	0.400	mg/L	2	03-May-2014 02:07
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,920		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	299		1.00	2.50	mg/L	5	28-Apr-2014 21:59
Fluoride	1.79		0.0500	0.100	mg/L	1	29-Apr-2014 06:25
Sulfate	1,330		10.0	25.0	mg/L	50	29-Apr-2014 19:38
TPH DRO/ORO BY SW8015C		Method:SW8015M				Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	17-Apr-2014 20:57
Surr: 2-Fluorobiphenyl	64.1			60-135	%REC	1	17-Apr-2014 20:57
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	5.10		0.150	1.00	mg/L	5	24-Apr-2014 02:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: MW-68-0414-D
Collection Date: 10-Apr-2014 10:00

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00413	J	0.00100	0.00500	mg/L	1	07-May-2014 23:26
Barium	0.0135		0.000900	0.00500	mg/L	1	07-May-2014 23:26
Chromium	U		0.00100	0.00500	mg/L	1	07-May-2014 23:26
Iron	U		0.0780	0.200	mg/L	1	07-May-2014 23:26
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 23:26
Manganese	U		0.00250	0.00500	mg/L	1	07-May-2014 23:26
Selenium	0.0302		0.00100	0.00500	mg/L	1	07-May-2014 23:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-71-0414
 Collection Date: 10-Apr-2014 10:35

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 13:28
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 13:28
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 13:28
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 13:28
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 13:28
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 13:28
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 13:28
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 13:28
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 13:28
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 13:28
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 13:28
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 13:28
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 13:28
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 13:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-71-0414
 Collection Date: 10-Apr-2014 10:35

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:28
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:28
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 13:28
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 13:28
Surr: 1,2-Dichloroethane-d4	106			70-125	%REC	1	18-Apr-2014 13:28
Surr: 4-Bromofluorobenzene	95.3			72-125	%REC	1	18-Apr-2014 13:28
Surr: Dibromofluoromethane	102			71-125	%REC	1	18-Apr-2014 13:28
Surr: Toluene-d8	96.7			75-125	%REC	1	18-Apr-2014 13:28
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Apr-2014 Analyst: ALR			
Arsenic	0.00458	J	0.00100	0.00500	mg/L	1	06-May-2014 22:49
Barium	0.00860		0.000900	0.00500	mg/L	1	06-May-2014 22:49
Calcium	558		0.670	5.00	mg/L	10	06-May-2014 21:28
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 22:49
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 22:49
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 22:49
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 22:49
Nickel	0.00123	J	0.00100	0.00500	mg/L	1	06-May-2014 22:49
Potassium	4.15		0.0500	0.200	mg/L	1	06-May-2014 22:49
Selenium	0.0452		0.00100	0.00500	mg/L	1	06-May-2014 22:49
Sodium	399		0.500	2.00	mg/L	10	06-May-2014 21:28
Vanadium	0.0252		0.000900	0.00500	mg/L	1	06-May-2014 22:49
CYANIDE BY SW9012B		Method:SW9012		Prep:SW9010C / 24-Apr-2014 Analyst: KKB			
Cyanide	U		0.00500	0.0200	mg/L	1	29-Apr-2014 16:52
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014 Analyst: JCJ			
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:58
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	6,280		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	887		10.0	25.0	mg/L	50	29-Apr-2014 20:03
Fluoride	1.39		0.0500	0.100	mg/L	1	29-Apr-2014 06:50
Sulfate	2,740		10.0	25.0	mg/L	50	29-Apr-2014 20:03
TPH DRO/ORO BY SW8015C		Method:SW8015M		Analyst: RPM			
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	17-Apr-2014 21:23
Surr: 2-Fluorobiphenyl	61.4			60-135	%REC	1	17-Apr-2014 21:23
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	53.6		0.150	1.00	mg/L	5	24-Apr-2014 02:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-71-0414-D
 Collection Date: 10-Apr-2014 10:35

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-04
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00573		0.00100	0.00500	mg/L	1	08-May-2014 00:06
Barium	0.0102		0.000900	0.00500	mg/L	1	08-May-2014 00:06
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 00:06
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 00:06
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 00:06
Manganese	U		0.00250	0.00500	mg/L	1	08-May-2014 00:06
Nickel	0.00155	J	0.00100	0.00500	mg/L	1	08-May-2014 00:06
Selenium	0.0499		0.00100	0.00500	mg/L	1	08-May-2014 00:06
Vanadium	0.0255		0.000900	0.00500	mg/L	1	08-May-2014 00:06
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: NP-1-0414
 Collection Date: 10-Apr-2014 11:15

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 13:53
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 13:53
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 13:53
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 13:53
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 13:53
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 13:53
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 13:53
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 13:53
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 13:53
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 13:53
Methyl tert-butyl ether	0.0056		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 13:53
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 13:53
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 13:53
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 13:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: NP-1-0414
 Collection Date: 10-Apr-2014 11:15

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 13:53
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 13:53
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 13:53
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 13:53
Surr: 1,2-Dichloroethane-d4	99.6			70-125	%REC	1	18-Apr-2014 13:53
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	18-Apr-2014 13:53
Surr: Dibromofluoromethane	98.1			71-125	%REC	1	18-Apr-2014 13:53
Surr: Toluene-d8	97.7			75-125	%REC	1	18-Apr-2014 13:53
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 28-Apr-2014 Analyst: ALR	
Calcium	439		0.500	5.00	mg/L	10	06-May-2014 20:48
Potassium	4.95		0.118	0.400	mg/L	2	06-May-2014 07:34
Sodium	352		0.0122	0.400	mg/L	2	06-May-2014 07:34
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	4,820		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	434		1.00	2.50	mg/L	5	28-Apr-2014 22:47
Fluoride	1.82		0.0500	0.100	mg/L	1	29-Apr-2014 07:14
Sulfate	2,560		10.0	25.0	mg/L	50	29-Apr-2014 20:27
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	11.6		0.150	1.00	mg/L	5	24-Apr-2014 03:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-20-0414
 Collection Date: 10-Apr-2014 11:50

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 14:18
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 14:18
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 14:18
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 14:18
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 14:18
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 14:18
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 14:18
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 14:18
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 14:18
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 14:18
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 14:18
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 14:18
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 14:18
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 14:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-20-0414
 Collection Date: 10-Apr-2014 11:50

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 14:18
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 14:18
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 14:18
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 14:18
Surr: 1,2-Dichloroethane-d4	98.7			70-125	%REC	1	18-Apr-2014 14:18
Surr: 4-Bromofluorobenzene	96.0			72-125	%REC	1	18-Apr-2014 14:18
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 14:18
Surr: Toluene-d8	100			75-125	%REC	1	18-Apr-2014 14:18
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.00750	J	0.00200	0.0100	mg/L	2	03-May-2014 02:17
Barium	0.00905	J	0.00180	0.0100	mg/L	2	03-May-2014 02:17
Calcium	505		0.670	5.00	mg/L	10	06-May-2014 21:33
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 02:17
Iron	U		0.100	0.400	mg/L	2	03-May-2014 02:17
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 02:17
Manganese	0.0906		0.00500	0.0100	mg/L	2	03-May-2014 02:17
Potassium	0.416		0.100	0.400	mg/L	2	03-May-2014 02:17
Selenium	0.0179		0.00200	0.0100	mg/L	2	03-May-2014 02:17
Sodium	249		0.100	0.400	mg/L	2	03-May-2014 02:17
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	4,900		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	457		1.00	2.50	mg/L	5	28-Apr-2014 23:11
Fluoride	2.11		0.0500	0.100	mg/L	1	29-Apr-2014 07:38
Sulfate	2,580		10.0	25.0	mg/L	50	29-Apr-2014 20:51
TPH DRO/ORO BY SW8015C		Method:SW8015M				Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	17-Apr-2014 21:49
Surr: 2-Fluorobiphenyl	80.9			60-135	%REC	1	17-Apr-2014 21:49
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	6.74		0.150	1.00	mg/L	5	24-Apr-2014 03:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: MW-20-0414-D
Collection Date: 10-Apr-2014 11:50

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00931		0.00100	0.00500	mg/L	1	08-May-2014 00:11
Barium	0.00977		0.000900	0.00500	mg/L	1	08-May-2014 00:11
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 00:11
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 00:11
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 00:11
Manganese	0.0645		0.00250	0.00500	mg/L	1	08-May-2014 00:11
Selenium	0.0205		0.00100	0.00500	mg/L	1	08-May-2014 00:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: Dup-5-0414
 Collection Date: 10-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:59
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:59
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:59
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:59
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:59
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:59
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 19:59
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 19:59
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:59
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 19:59
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:59
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:59
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 19:59
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: Dup-5-0414
 Collection Date: 10-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-08
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:59
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:59
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 19:59
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 19:59
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	18-Apr-2014 19:59
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	18-Apr-2014 19:59
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 19:59
Surr: Toluene-d8	97.8			75-125	%REC	1	18-Apr-2014 19:59
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Apr-2014 Analyst: ALR			
Arsenic	0.00865	J	0.00200	0.0100	mg/L	2	03-May-2014 02:22
Barium	0.0103		0.00180	0.0100	mg/L	2	03-May-2014 02:22
Calcium	487		0.670	5.00	mg/L	10	06-May-2014 21:38
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 02:22
Iron	U		0.100	0.400	mg/L	2	03-May-2014 02:22
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 02:22
Manganese	0.0800		0.00500	0.0100	mg/L	2	03-May-2014 02:22
Potassium	0.419		0.100	0.400	mg/L	2	03-May-2014 02:22
Selenium	0.0170		0.00200	0.0100	mg/L	2	03-May-2014 02:22
Sodium	247		0.100	0.400	mg/L	2	03-May-2014 02:22
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	4,840		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	440		1.00	2.50	mg/L	5	28-Apr-2014 23:35
Fluoride	1.72		0.0500	0.100	mg/L	1	29-Apr-2014 08:02
Sulfate	2,700		10.0	25.0	mg/L	50	29-Apr-2014 21:15
TPH DRO/ORO BY SW8015C		Method:SW8015M		Analyst: RPM			
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	17-Apr-2014 22:15
Surr: 2-Fluorobiphenyl	65.1			60-135	%REC	1	17-Apr-2014 22:15
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	6.50		0.150	1.00	mg/L	5	24-Apr-2014 03:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: Dup-5-0414-D
Collection Date: 10-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00848		0.00100	0.00500	mg/L	1	08-May-2014 00:15
Barium	0.0103		0.000900	0.00500	mg/L	1	08-May-2014 00:15
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 00:15
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 00:15
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 00:15
Manganese	0.0647		0.00250	0.00500	mg/L	1	08-May-2014 00:15
Selenium	0.0220		0.00100	0.00500	mg/L	1	08-May-2014 00:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-8-0414
 Collection Date: 10-Apr-2014 12:35

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 20:23
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 20:23
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 20:23
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 20:23
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 20:23
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 20:23
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 20:23
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 20:23
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 20:23
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 20:23
Methyl tert-butyl ether	0.0014	J	0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 20:23
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 20:23
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 20:23
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 20:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-8-0414
 Collection Date: 10-Apr-2014 12:35

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-10
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:23
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:23
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 20:23
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 20:23
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	18-Apr-2014 20:23
Surr: 4-Bromofluorobenzene	99.1			72-125	%REC	1	18-Apr-2014 20:23
Surr: Dibromofluoromethane	98.5			71-125	%REC	1	18-Apr-2014 20:23
Surr: Toluene-d8	97.2			75-125	%REC	1	18-Apr-2014 20:23
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.00884	J	0.00200	0.0100	mg/L	2	03-May-2014 02:37
Barium	0.0114		0.00180	0.0100	mg/L	2	03-May-2014 02:37
Calcium	486		0.670	5.00	mg/L	10	06-May-2014 21:43
Chromium	0.0212		0.00200	0.0100	mg/L	2	03-May-2014 02:37
Iron	U		0.100	0.400	mg/L	2	03-May-2014 02:37
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 02:37
Manganese	0.557		0.00500	0.0100	mg/L	2	03-May-2014 02:37
Potassium	2.05		0.100	0.400	mg/L	2	03-May-2014 02:37
Selenium	0.0237		0.00200	0.0100	mg/L	2	03-May-2014 02:37
Sodium	388		0.500	2.00	mg/L	10	06-May-2014 21:43
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	23-Apr-2014 20:08
Surr: 4-Bromofluorobenzene	117			70-130	%REC	1	23-Apr-2014 20:08
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,060		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	383		1.00	2.50	mg/L	5	28-Apr-2014 23:59
Fluoride	1.78		0.0500	0.100	mg/L	1	29-Apr-2014 08:26
Sulfate	2,710		10.0	25.0	mg/L	50	29-Apr-2014 21:39
TPH DRO/ORO BY SW8015C			Method:SW8015M			Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.051	mg/L	1	17-Apr-2014 22:41
Surr: 2-Fluorobiphenyl	64.2			60-135	%REC	1	17-Apr-2014 22:41
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	5.20		0.150	1.00	mg/L	5	24-Apr-2014 03:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: MW-8-0414-D
Collection Date: 10-Apr-2014 12:35

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00898		0.00100	0.00500	mg/L	1	08-May-2014 00:20
Barium	0.0116		0.000900	0.00500	mg/L	1	08-May-2014 00:20
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 00:20
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 00:20
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 00:20
Manganese	0.587		0.00250	0.00500	mg/L	1	08-May-2014 00:20
Selenium	0.0295		0.00100	0.00500	mg/L	1	08-May-2014 00:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-21-0414
 Collection Date: 10-Apr-2014 13:15

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-12
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 20:47
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 20:47
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 20:47
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 20:47
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 20:47
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 20:47
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 20:47
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 20:47
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 20:47
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 20:47
Methyl tert-butyl ether	0.0051		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 20:47
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 20:47
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 20:47
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 20:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-21-0414
 Collection Date: 10-Apr-2014 13:15

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-12
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 20:47
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 20:47
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 20:47
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 20:47
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	18-Apr-2014 20:47
Surr: 4-Bromofluorobenzene	98.9			72-125	%REC	1	18-Apr-2014 20:47
Surr: Dibromofluoromethane	100			71-125	%REC	1	18-Apr-2014 20:47
Surr: Toluene-d8	98.2			75-125	%REC	1	18-Apr-2014 20:47
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.00724	J	0.00200	0.0100	mg/L	2	03-May-2014 02:41
Barium	0.00373	J	0.00180	0.0100	mg/L	2	03-May-2014 02:41
Calcium	510		0.670	5.00	mg/L	10	06-May-2014 21:48
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 02:41
Iron	U		0.100	0.400	mg/L	2	03-May-2014 02:41
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 02:41
Manganese	0.432		0.00500	0.0100	mg/L	2	03-May-2014 02:41
Potassium	0.491		0.100	0.400	mg/L	2	03-May-2014 02:41
Selenium	0.0259		0.00200	0.0100	mg/L	2	03-May-2014 02:41
Sodium	97.1		0.100	0.400	mg/L	2	03-May-2014 02:41
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	23-Apr-2014 20:26
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	23-Apr-2014 20:26
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,560		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	537		10.0	25.0	mg/L	50	29-Apr-2014 22:03
Fluoride	1.70		0.0500	0.100	mg/L	1	29-Apr-2014 08:50
Sulfate	2,970		10.0	25.0	mg/L	50	29-Apr-2014 22:03
TPH DRO/ORO BY SW8015C		Method:SW8015M				Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	18-Apr-2014 17:42
Surr: 2-Fluorobiphenyl	107			60-135	%REC	1	18-Apr-2014 17:42
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	22.6		0.150	1.00	mg/L	5	24-Apr-2014 04:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: MW-21-0414-D
Collection Date: 10-Apr-2014 13:15

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00845		0.00100	0.00500	mg/L	1	08-May-2014 00:25
Barium	0.00996		0.000900	0.00500	mg/L	1	08-May-2014 00:25
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 00:25
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 00:25
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 00:25
Manganese	0.422		0.00250	0.00500	mg/L	1	08-May-2014 00:25
Selenium	0.0368		0.00100	0.00500	mg/L	1	08-May-2014 00:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: EB-8-0414
 Collection Date: 10-Apr-2014 13:20

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-14
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 21:11
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 21:11
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 21:11
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 21:11
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 21:11
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 21:11
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 21:11
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 21:11
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 21:11
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 21:11
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 21:11
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 21:11
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 21:11
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 21:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: EB-8-0414
 Collection Date: 10-Apr-2014 13:20

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-14
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:11
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:11
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 21:11
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 21:11
Surr: 1,2-Dichloroethane-d4	101			70-125	%REC	1	18-Apr-2014 21:11
Surr: 4-Bromofluorobenzene	99.4			72-125	%REC	1	18-Apr-2014 21:11
Surr: Dibromofluoromethane	99.0			71-125	%REC	1	18-Apr-2014 21:11
Surr: Toluene-d8	97.2			75-125	%REC	1	18-Apr-2014 21:11
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Apr-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	06-May-2014 22:54
Barium	U		0.000900	0.00500	mg/L	1	06-May-2014 22:54
Calcium	0.321	J	0.0670	0.500	mg/L	1	06-May-2014 22:54
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 22:54
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 22:54
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 22:54
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 22:54
Nickel	U		0.00100	0.00500	mg/L	1	06-May-2014 22:54
Potassium	U		0.0500	0.200	mg/L	1	06-May-2014 22:54
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 22:54
Sodium	0.162	J	0.0500	0.200	mg/L	1	06-May-2014 22:54
Vanadium	U		0.000900	0.00500	mg/L	1	06-May-2014 22:54
CYANIDE BY SW9012B		Method:SW9012		Prep:SW9010C / 24-Apr-2014		Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	29-Apr-2014 16:52
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	23-Apr-2014 20:44
Surr: 4-Bromofluorobenzene	115			70-130	%REC	1	23-Apr-2014 20:44
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 14:59
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	10.0		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	U		0.200	0.500	mg/L	1	29-Apr-2014 09:14
Fluoride	U		0.0500	0.100	mg/L	1	29-Apr-2014 09:14
Sulfate	U		0.200	0.500	mg/L	1	29-Apr-2014 09:14
TPH DRO/ORO BY SW8015C		Method:SW8015M		Analyst: RPM			
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	18-Apr-2014 10:23
Surr: 2-Fluorobiphenyl	97.1			60-135	%REC	1	18-Apr-2014 10:23
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	24-Apr-2014 04:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: EB-8-1414-D
 Collection Date: 10-Apr-2014 13:20

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-15
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	08-May-2014 00:30
Barium	U		0.000900	0.00500	mg/L	1	08-May-2014 00:30
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 00:30
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 00:30
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 00:30
Manganese	U		0.00250	0.00500	mg/L	1	08-May-2014 00:30
Nickel	U		0.00100	0.00500	mg/L	1	08-May-2014 00:30
Selenium	U		0.00100	0.00500	mg/L	1	08-May-2014 00:30
Vanadium	U		0.000900	0.00500	mg/L	1	08-May-2014 00:30
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-135-0414
 Collection Date: 10-Apr-2014 13:50

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-16
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	17-Apr-2014 18:39
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	17-Apr-2014 18:39
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	17-Apr-2014 18:39
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
2-Butanone	U		0.0010	0.010	mg/L	1	17-Apr-2014 18:39
2-Hexanone	U		0.0010	0.010	mg/L	1	17-Apr-2014 18:39
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	17-Apr-2014 18:39
Acetone	U		0.0020	0.010	mg/L	1	17-Apr-2014 18:39
Benzene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
Bromoform	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
Bromomethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
Carbon disulfide	U		0.00090	0.010	mg/L	1	17-Apr-2014 18:39
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
Chlorobenzene	U		0.00040	0.0050	mg/L	1	17-Apr-2014 18:39
Chloroethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
Chloroform	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
Chloromethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
Ethylbenzene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
m,p-Xylene	U		0.00060	0.010	mg/L	1	17-Apr-2014 18:39
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
Methylene chloride	U		0.0010	0.010	mg/L	1	17-Apr-2014 18:39
Naphthalene	U		0.00070	0.0050	mg/L	1	17-Apr-2014 18:39
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	17-Apr-2014 18:39
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
o-Xylene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
Styrene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
Toluene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	17-Apr-2014 18:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-135-0414
 Collection Date: 10-Apr-2014 13:50

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-16
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	17-Apr-2014 18:39
Trichloroethene	U		0.00050	0.0050	mg/L	1	17-Apr-2014 18:39
Vinyl chloride	U		0.00040	0.0020	mg/L	1	17-Apr-2014 18:39
Xylenes, Total	U		0.0015	0.015	mg/L	1	17-Apr-2014 18:39
Surr: 1,2-Dichloroethane-d4	118			70-125	%REC	1	17-Apr-2014 18:39
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	17-Apr-2014 18:39
Surr: Dibromofluoromethane	94.9			71-125	%REC	1	17-Apr-2014 18:39
Surr: Toluene-d8	97.6			75-125	%REC	1	17-Apr-2014 18:39
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.00454	J	0.00200	0.0100	mg/L	2	03-May-2014 02:56
Barium	0.0856		0.00180	0.0100	mg/L	2	03-May-2014 02:56
Calcium	618		0.670	5.00	mg/L	10	06-May-2014 22:04
Chromium	0.00467	J	0.00200	0.0100	mg/L	2	03-May-2014 02:56
Iron	1.68		0.100	0.400	mg/L	2	03-May-2014 02:56
Lead	0.00227	J	0.00140	0.0100	mg/L	2	03-May-2014 02:56
Manganese	0.0799		0.00500	0.0100	mg/L	2	03-May-2014 02:56
Potassium	1.58		0.100	0.400	mg/L	2	03-May-2014 02:56
Selenium	0.0344		0.00200	0.0100	mg/L	2	03-May-2014 02:56
Sodium	507		0.500	2.00	mg/L	10	06-May-2014 22:04
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	24-Apr-2014 13:55
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	24-Apr-2014 13:55
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,700		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	1,030		10.0	25.0	mg/L	50	29-Apr-2014 22:27
Fluoride	0.739		0.0500	0.100	mg/L	1	29-Apr-2014 10:27
Sulfate	2,090		10.0	25.0	mg/L	50	29-Apr-2014 22:27
TPH DRO/ORO BY SW8015C		Method:SW8015M				Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	18-Apr-2014 13:35
Surr: 2-Fluorobiphenyl	93.7			60-135	%REC	1	18-Apr-2014 13:35
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	47.3		0.150	1.00	mg/L	5	24-Apr-2014 05:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: MW-135-0414-D
Collection Date: 10-Apr-2014 13:50

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-17
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00316	J	0.00100	0.00500	mg/L	1	08-May-2014 21:58
Barium	0.0122		0.000900	0.00500	mg/L	1	08-May-2014 21:58
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 21:58
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 21:58
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 21:58
Manganese	0.0111		0.00250	0.00500	mg/L	1	08-May-2014 21:58
Selenium	0.0349		0.00100	0.00500	mg/L	1	08-May-2014 21:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-57-0414
 Collection Date: 10-Apr-2014 14:50

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-18
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 21:35
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 21:35
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 21:35
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 21:35
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 21:35
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 21:35
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 21:35
Benzene	0.0013	J	0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 21:35
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 21:35
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 21:35
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 21:35
Naphthalene	0.0010	J	0.00070	0.0050	mg/L	1	18-Apr-2014 21:35
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 21:35
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 21:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-57-0414
 Collection Date: 10-Apr-2014 14:50

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-18
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 21:35
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 21:35
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 21:35
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 21:35
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	18-Apr-2014 21:35
Surr: 4-Bromofluorobenzene	99.6			72-125	%REC	1	18-Apr-2014 21:35
Surr: Dibromofluoromethane	102			71-125	%REC	1	18-Apr-2014 21:35
Surr: Toluene-d8	97.8			75-125	%REC	1	18-Apr-2014 21:35
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.0889		0.00200	0.0100	mg/L	2	03-May-2014 03:01
Barium	2.17		0.00180	0.0100	mg/L	2	03-May-2014 03:01
Calcium	674		0.670	5.00	mg/L	10	06-May-2014 22:08
Chromium	0.0456		0.00200	0.0100	mg/L	2	03-May-2014 03:01
Iron	38.8		0.100	0.400	mg/L	2	03-May-2014 03:01
Lead	0.0269		0.00140	0.0100	mg/L	2	03-May-2014 03:01
Manganese	2.73		0.00500	0.0100	mg/L	2	03-May-2014 03:01
Potassium	11.2		0.100	0.400	mg/L	2	03-May-2014 03:01
Selenium	0.00342	J	0.00200	0.0100	mg/L	2	03-May-2014 03:01
Sodium	118		0.100	0.400	mg/L	2	03-May-2014 03:01
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	0.350		0.0100	0.0500	mg/L	1	24-Apr-2014 14:31
Surr: 4-Bromofluorobenzene	117			70-130	%REC	1	24-Apr-2014 14:31
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,700		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	152		1.00	2.50	mg/L	5	29-Apr-2014 02:00
Fluoride	0.395		0.0500	0.100	mg/L	1	29-Apr-2014 10:51
Sulfate	464		10.0	25.0	mg/L	50	29-Apr-2014 23:40
TPH DRO/ORO BY SW8015C		Method:SW8015M				Analyst: RPM	
TPH (Diesel Range)	0.78		0.021	0.051	mg/L	1	18-Apr-2014 14:01
Surr: 2-Fluorobiphenyl	93.2			60-135	%REC	1	18-Apr-2014 14:01
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	24-Apr-2014 05:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: MW-57-0414-D
Collection Date: 10-Apr-2014 14:50

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-19
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.0560		0.00100	0.00500	mg/L	1	08-May-2014 02:12
Barium	0.0650		0.000900	0.00500	mg/L	1	08-May-2014 02:12
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 02:12
Iron	2.67		0.0780	0.200	mg/L	1	08-May-2014 02:12
Lead	0.000734	J	0.000700	0.00500	mg/L	1	08-May-2014 02:12
Manganese	1.98		0.0250	0.0500	mg/L	10	08-May-2014 22:03
Selenium	U		0.00100	0.00500	mg/L	1	08-May-2014 02:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: KWB-12B-0414
 Collection Date: 11-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-20
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:49
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:49
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:49
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:49
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:49
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:49
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 16:49
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 16:49
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:49
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 16:49
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:49
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:49
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 16:49
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: KWB-12B-0414
 Collection Date: 11-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-20
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:49
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:49
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 16:49
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 16:49
Surr: 1,2-Dichloroethane-d4	104			70-125	%REC	1	18-Apr-2014 16:49
Surr: 4-Bromofluorobenzene	96.0			72-125	%REC	1	18-Apr-2014 16:49
Surr: Dibromofluoromethane	102			71-125	%REC	1	18-Apr-2014 16:49
Surr: Toluene-d8	97.9			75-125	%REC	1	18-Apr-2014 16:49
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Apr-2014		Analyst: ALR	
Arsenic	0.00286	J	0.00100	0.00500	mg/L	1	06-May-2014 22:59
Barium	0.00926		0.000900	0.00500	mg/L	1	06-May-2014 22:59
Calcium	526		0.670	5.00	mg/L	10	06-May-2014 22:13
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 22:59
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 22:59
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 22:59
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 22:59
Nickel	U		0.00100	0.00500	mg/L	1	06-May-2014 22:59
Potassium	0.756		0.0500	0.200	mg/L	1	06-May-2014 22:59
Selenium	0.00318	J	0.00100	0.00500	mg/L	1	06-May-2014 22:59
Sodium	138		0.100	0.400	mg/L	2	03-May-2014 03:06
Vanadium	0.0130		0.000900	0.00500	mg/L	1	06-May-2014 22:59
CYANIDE BY SW9012B		Method:SW9012		Prep:SW9010C / 24-Apr-2014		Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	29-Apr-2014 16:52
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	24-Apr-2014 18:54
Surr: 4-Bromofluorobenzene	118			70-130	%REC	1	24-Apr-2014 18:54
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 15:01
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	3,800		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	122		1.00	2.50	mg/L	5	29-Apr-2014 02:24
Fluoride	0.296		0.0500	0.100	mg/L	1	29-Apr-2014 11:15
Sulfate	2,130		10.0	25.0	mg/L	50	30-Apr-2014 00:04
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 18-Apr-2014		Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	18-Apr-2014 18:08
Surr: 2-Fluorobiphenyl	109			60-135	%REC	1	18-Apr-2014 18:08
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	5.56		0.150	1.00	mg/L	5	24-Apr-2014 05:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: KWB-12B-0414-D
 Collection Date: 11-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-21
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00336	J	0.00100	0.00500	mg/L	1	08-May-2014 02:22
Barium	0.00906		0.000900	0.00500	mg/L	1	08-May-2014 02:22
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 02:22
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 02:22
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 02:22
Manganese	U		0.00250	0.00500	mg/L	1	08-May-2014 02:22
Nickel	U		0.00100	0.00500	mg/L	1	08-May-2014 02:22
Selenium	0.00460	J	0.00100	0.00500	mg/L	1	08-May-2014 02:22
Vanadium	0.0133		0.000900	0.00500	mg/L	1	08-May-2014 02:22
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: Dup-6-0414
 Collection Date: 11-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-22
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:14
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:14
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 17:14
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:14
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:14
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:14
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 17:14
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 17:14
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:14
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 17:14
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:14
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 17:14
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 17:14
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: Dup-6-0414
 Collection Date: 11-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-22
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:14
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:14
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 17:14
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 17:14
Surr: 1,2-Dichloroethane-d4	101			70-125	%REC	1	18-Apr-2014 17:14
Surr: 4-Bromofluorobenzene	100.0			72-125	%REC	1	18-Apr-2014 17:14
Surr: Dibromofluoromethane	100.0			71-125	%REC	1	18-Apr-2014 17:14
Surr: Toluene-d8	97.2			75-125	%REC	1	18-Apr-2014 17:14
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.00240	J	0.00100	0.00500	mg/L	1	06-May-2014 23:09
Barium	0.0108		0.000900	0.00500	mg/L	1	06-May-2014 23:09
Calcium	569		0.670	5.00	mg/L	10	06-May-2014 22:18
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 23:09
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 23:09
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 23:09
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 23:09
Nickel	U		0.00100	0.00500	mg/L	1	06-May-2014 23:09
Potassium	0.795		0.0500	0.200	mg/L	1	06-May-2014 23:09
Selenium	0.00363	J	0.00100	0.00500	mg/L	1	06-May-2014 23:09
Sodium	143		0.100	0.400	mg/L	2	03-May-2014 03:11
Vanadium	0.0136		0.000900	0.00500	mg/L	1	06-May-2014 23:09
CYANIDE BY SW9012B		Method:SW9012				Prep:SW9010C / 25-Apr-2014 Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	29-Apr-2014 10:24
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	24-Apr-2014 14:50
Surr: 4-Bromofluorobenzene	115			70-130	%REC	1	24-Apr-2014 14:50
MERCURY BY SW7470A		Method:SW7470				Prep:SW7470 / 29-Apr-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 15:03
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	3,620		5.00	10.0	mg/L	1	17-Apr-2014 17:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	129		1.00	2.50	mg/L	5	29-Apr-2014 02:48
Fluoride	0.291		0.0500	0.100	mg/L	1	29-Apr-2014 11:39
Sulfate	2,070		10.0	25.0	mg/L	50	30-Apr-2014 00:28
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 18-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	18-Apr-2014 18:35
Surr: 2-Fluorobiphenyl	106			60-135	%REC	1	18-Apr-2014 18:35
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	5.55		0.150	1.00	mg/L	5	24-Apr-2014 05:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: Dup-6-0414-D
 Collection Date: 11-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-23
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00222	J	0.00200	0.0100	mg/L	2	08-May-2014 23:36
Barium	0.0101		0.000900	0.00500	mg/L	1	08-May-2014 02:27
Chromium	U		0.00200	0.0100	mg/L	2	08-May-2014 23:36
Iron	U		0.156	0.400	mg/L	2	08-May-2014 23:36
Lead	U		0.00140	0.0100	mg/L	2	08-May-2014 23:36
Manganese	U		0.00500	0.0100	mg/L	2	08-May-2014 23:36
Nickel	U		0.00200	0.0100	mg/L	2	08-May-2014 23:36
Selenium	0.00341	J	0.00200	0.0100	mg/L	2	08-May-2014 23:36
Vanadium	0.0134		0.00180	0.0100	mg/L	2	08-May-2014 23:36
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-113-0414
 Collection Date: 11-Apr-2014 09:30

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-24
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:39
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
1,2,4-Trimethylbenzene	0.058		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:39
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 17:39
1,3,5-Trimethylbenzene	0.026		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:39
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:39
4-Isopropyltoluene	0.0015	J	0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:39
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 17:39
Benzene	2.3		0.015	0.12	mg/L	25	21-Apr-2014 13:38
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 17:39
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:39
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
Ethylbenzene	0.40		0.012	0.12	mg/L	25	21-Apr-2014 13:38
Isopropylbenzene	0.013		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
m,p-Xylene	0.82		0.015	0.25	mg/L	25	21-Apr-2014 13:38
Methyl tert-butyl ether	0.010		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 17:39
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 17:39
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 17:39
n-Propylbenzene	0.011		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
o-Xylene	0.090	J	0.012	0.12	mg/L	25	21-Apr-2014 13:38
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
Toluene	0.064		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 17:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-113-0414
 Collection Date: 11-Apr-2014 09:30

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-24
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 17:39
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 17:39
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 17:39
Xylenes, Total	0.91		0.038	0.38	mg/L	25	21-Apr-2014 13:38
Surr: 1,2-Dichloroethane-d4	94.6			70-125	%REC	1	18-Apr-2014 17:39
Surr: 1,2-Dichloroethane-d4	99.6			70-125	%REC	25	21-Apr-2014 13:38
Surr: 4-Bromofluorobenzene	93.1			72-125	%REC	1	18-Apr-2014 17:39
Surr: 4-Bromofluorobenzene	99.1			72-125	%REC	25	21-Apr-2014 13:38
Surr: Dibromofluoromethane	95.7			71-125	%REC	1	18-Apr-2014 17:39
Surr: Dibromofluoromethane	97.1			71-125	%REC	25	21-Apr-2014 13:38
Surr: Toluene-d8	101			75-125	%REC	1	18-Apr-2014 17:39
Surr: Toluene-d8	97.6			75-125	%REC	25	21-Apr-2014 13:38
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.00326	J	0.00200	0.0100	mg/L	2	03-May-2014 03:26
Barium	0.0882		0.00180	0.0100	mg/L	2	03-May-2014 03:26
Calcium	300		0.134	1.00	mg/L	2	03-May-2014 03:26
Chromium	0.00423	J	0.00200	0.0100	mg/L	2	03-May-2014 03:26
Iron	1.87		0.100	0.400	mg/L	2	03-May-2014 03:26
Lead	0.00211	J	0.00140	0.0100	mg/L	2	03-May-2014 03:26
Manganese	0.408		0.00500	0.0100	mg/L	2	03-May-2014 03:26
Potassium	1.45		0.100	0.400	mg/L	2	03-May-2014 03:26
Selenium	U		0.00200	0.0100	mg/L	2	03-May-2014 03:26
Sodium	152		0.100	0.400	mg/L	2	03-May-2014 03:26
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	17.3		0.0100	0.0500	mg/L	1	24-Apr-2014 15:08
Surr: 4-Bromofluorobenzene	117			70-130	%REC	1	24-Apr-2014 15:08
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,440		5.00	10.0	mg/L	1	18-Apr-2014 18:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	205		1.00	2.50	mg/L	5	29-Apr-2014 03:12
Fluoride	0.282		0.0500	0.100	mg/L	1	29-Apr-2014 12:03
Sulfate	693		10.0	25.0	mg/L	50	30-Apr-2014 00:52
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 18-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.23		0.021	0.051	mg/L	1	18-Apr-2014 19:01
Surr: 2-Fluorobiphenyl	125			60-135	%REC	1	18-Apr-2014 19:01
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	24-Apr-2014 06:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: MW-113-01414-D
Collection Date: 11-Apr-2014 09:30

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-25
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00267	J	0.00100	0.00500	mg/L	1	08-May-2014 02:51
Barium	0.0180		0.000900	0.00500	mg/L	1	08-May-2014 02:51
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 02:51
Iron	0.0871	J	0.0780	0.200	mg/L	1	08-May-2014 02:51
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 23:41
Manganese	0.387		0.00250	0.00500	mg/L	1	08-May-2014 02:51
Selenium	U		0.00100	0.00500	mg/L	1	08-May-2014 02:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: EB-9-0414
 Collection Date: 11-Apr-2014 09:45

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-26
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:45
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:45
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:45
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:45
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:45
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:45
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 19:45
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 19:45
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:45
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 19:45
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:45
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:45
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 19:45
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: EB-9-0414
 Collection Date: 11-Apr-2014 09:45

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-26
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:45
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:45
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 19:45
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 19:45
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	18-Apr-2014 19:45
Surr: 4-Bromofluorobenzene	99.6			72-125	%REC	1	18-Apr-2014 19:45
Surr: Dibromofluoromethane	103			71-125	%REC	1	18-Apr-2014 19:45
Surr: Toluene-d8	99.9			75-125	%REC	1	18-Apr-2014 19:45
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 23-Apr-2014	Analyst: ALR
Arsenic	U		0.00100	0.00500	mg/L	1	06-May-2014 23:14
Barium	U		0.000900	0.00500	mg/L	1	06-May-2014 23:14
Calcium	0.505		0.0670	0.500	mg/L	1	06-May-2014 23:14
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 23:14
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 23:14
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 23:14
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 23:14
Nickel	U		0.00100	0.00500	mg/L	1	06-May-2014 23:14
Potassium	U		0.0500	0.200	mg/L	1	06-May-2014 23:14
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 23:14
Sodium	U		0.0500	0.200	mg/L	1	06-May-2014 23:14
Vanadium	U		0.000900	0.00500	mg/L	1	06-May-2014 23:14
CYANIDE BY SW9012B		Method:SW9012				Prep:SW9010C / 24-Apr-2014	Analyst: KKB
Cyanide	U		0.00500	0.0200	mg/L	1	29-Apr-2014 16:52
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	0.0499	J	0.0100	0.0500	mg/L	1	24-Apr-2014 15:26
Surr: 4-Bromofluorobenzene	113			70-130	%REC	1	24-Apr-2014 15:26
MERCURY BY SW7470A		Method:SW7470				Prep:SW7470 / 29-Apr-2014	Analyst: JCJ
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 15:05
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	6.00	J	5.00	10.0	mg/L	1	18-Apr-2014 18:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	U		0.200	0.500	mg/L	1	29-Apr-2014 12:27
Fluoride	U		0.0500	0.100	mg/L	1	29-Apr-2014 12:27
Sulfate	U		0.200	0.500	mg/L	1	29-Apr-2014 12:27
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 18-Apr-2014	Analyst: RPM
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	18-Apr-2014 19:27
Surr: 2-Fluorobiphenyl	125			60-135	%REC	1	18-Apr-2014 19:27
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	24-Apr-2014 06:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: EB-9-0414-D
 Collection Date: 11-Apr-2014 09:45

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-27
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	08-May-2014 02:56
Barium	U		0.000900	0.00500	mg/L	1	08-May-2014 02:56
Chromium	U		0.00100	0.00500	mg/L	1	08-May-2014 02:56
Iron	U		0.0780	0.200	mg/L	1	08-May-2014 02:56
Lead	U		0.000700	0.00500	mg/L	1	08-May-2014 02:56
Manganese	U		0.00250	0.00500	mg/L	1	08-May-2014 02:56
Nickel	U		0.00100	0.00500	mg/L	1	08-May-2014 02:56
Selenium	U		0.00100	0.00500	mg/L	1	08-May-2014 02:56
Vanadium	U		0.000900	0.00500	mg/L	1	08-May-2014 02:56
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-134-0414
 Collection Date: 11-Apr-2014 10:15

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-28
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:30
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:30
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:30
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:30
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:30
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:30
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 18:30
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 18:30
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:30
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 18:30
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:30
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:30
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 18:30
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: MW-134-0414
 Collection Date: 11-Apr-2014 10:15

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-28
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:30
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:30
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 18:30
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 18:30
Surr: 1,2-Dichloroethane-d4	101			70-125	%REC	1	18-Apr-2014 18:30
Surr: 4-Bromofluorobenzene	97.8			72-125	%REC	1	18-Apr-2014 18:30
Surr: Dibromofluoromethane	101			71-125	%REC	1	18-Apr-2014 18:30
Surr: Toluene-d8	99.1			75-125	%REC	1	18-Apr-2014 18:30
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.00701	J	0.00200	0.0100	mg/L	2	03-May-2014 03:36
Barium	0.0168		0.00180	0.0100	mg/L	2	03-May-2014 03:36
Calcium	569		0.670	5.00	mg/L	10	06-May-2014 22:23
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 03:36
Iron	0.581		0.100	0.400	mg/L	2	03-May-2014 03:36
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 03:36
Manganese	0.0310		0.00500	0.0100	mg/L	2	03-May-2014 03:36
Potassium	1.94		0.100	0.400	mg/L	2	03-May-2014 03:36
Selenium	0.00570	J	0.00200	0.0100	mg/L	2	03-May-2014 03:36
Sodium	273		0.100	0.400	mg/L	2	03-May-2014 03:36
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	24-Apr-2014 15:45
Surr: 4-Bromofluorobenzene	120			70-130	%REC	1	24-Apr-2014 15:45
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,540		5.00	10.0	mg/L	1	18-Apr-2014 18:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	459		1.00	2.50	mg/L	5	29-Apr-2014 03:36
Fluoride	0.952		0.0500	0.100	mg/L	1	29-Apr-2014 12:52
Sulfate	2,650		10.0	25.0	mg/L	50	30-Apr-2014 01:16
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 18-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	18-Apr-2014 19:54
Surr: 2-Fluorobiphenyl	123			60-135	%REC	1	18-Apr-2014 19:54
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	2.64		0.150	1.00	mg/L	5	24-Apr-2014 06:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: MW-134-0414-D
Collection Date: 11-Apr-2014 10:15

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-29
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00761	J	0.00200	0.0100	mg/L	2	08-May-2014 23:51
Barium	0.00947	J	0.00180	0.0100	mg/L	2	08-May-2014 23:51
Chromium	U		0.00200	0.0100	mg/L	2	08-May-2014 23:51
Iron	U		0.156	0.400	mg/L	2	08-May-2014 23:51
Lead	U		0.00140	0.0100	mg/L	2	08-May-2014 23:51
Manganese	0.0169		0.00500	0.0100	mg/L	2	08-May-2014 23:51
Selenium	0.00508	J	0.00200	0.0100	mg/L	2	08-May-2014 23:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: KWB-1A-0414
 Collection Date: 11-Apr-2014 10:45

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-30
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:55
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:55
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:55
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:55
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:55
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:55
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 18:55
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 18:55
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:55
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 18:55
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 18:55
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 18:55
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 18:55
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 18:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: KWB-1A-0414
 Collection Date: 11-Apr-2014 10:45

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-30
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 18:55
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 18:55
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 18:55
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 18:55
Surr: 1,2-Dichloroethane-d4	99.0			70-125	%REC	1	18-Apr-2014 18:55
Surr: 4-Bromofluorobenzene	94.4			72-125	%REC	1	18-Apr-2014 18:55
Surr: Dibromofluoromethane	100			71-125	%REC	1	18-Apr-2014 18:55
Surr: Toluene-d8	96.0			75-125	%REC	1	18-Apr-2014 18:55
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Apr-2014		Analyst: ALR	
Arsenic	0.00441	J	0.00100	0.00500	mg/L	1	06-May-2014 23:19
Barium	0.0100		0.000900	0.00500	mg/L	1	06-May-2014 23:19
Calcium	583		0.670	5.00	mg/L	10	06-May-2014 22:28
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 23:19
Iron	0.0770	J	0.0500	0.200	mg/L	1	06-May-2014 23:19
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 23:19
Manganese	0.371		0.00500	0.0100	mg/L	2	03-May-2014 03:40
Nickel	0.00833		0.00100	0.00500	mg/L	1	06-May-2014 23:19
Potassium	1.28		0.0500	0.200	mg/L	1	06-May-2014 23:19
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 23:19
Sodium	206		0.100	0.400	mg/L	2	03-May-2014 03:40
Vanadium	0.0223		0.000900	0.00500	mg/L	1	06-May-2014 23:19
CYANIDE BY SW9012B		Method:SW9012		Prep:SW9010C / 25-Apr-2014		Analyst: KKB	
Cyanide	U		0.00500	0.0200	mg/L	1	29-Apr-2014 10:24
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 15:06
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	5,180		5.00	10.0	mg/L	1	18-Apr-2014 18:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	459		10.0	25.0	mg/L	50	30-Apr-2014 01:40
Fluoride	0.916		0.0500	0.100	mg/L	1	29-Apr-2014 13:16
Sulfate	2,440		10.0	25.0	mg/L	50	30-Apr-2014 01:40
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 18-Apr-2014		Analyst: RPM	
TPH (Diesel Range)	U		0.021	0.052	mg/L	1	18-Apr-2014 20:20
Surr: 2-Fluorobiphenyl	123			60-135	%REC	1	18-Apr-2014 20:20
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	24-Apr-2014 06:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: KWB-1A-0414-D
 Collection Date: 11-Apr-2014 10:45

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-31
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00420	J	0.00200	0.0100	mg/L	2	08-May-2014 23:56
Barium	0.00811	J	0.00180	0.0100	mg/L	2	08-May-2014 23:56
Chromium	U		0.00200	0.0100	mg/L	2	08-May-2014 23:56
Iron	U		0.156	0.400	mg/L	2	08-May-2014 23:56
Lead	U		0.00140	0.0100	mg/L	2	08-May-2014 23:56
Manganese	0.406		0.00500	0.0100	mg/L	2	08-May-2014 23:56
Nickel	0.00847	J	0.00200	0.0100	mg/L	2	08-May-2014 23:56
Selenium	U		0.00200	0.0100	mg/L	2	08-May-2014 23:56
Vanadium	0.0197		0.00180	0.0100	mg/L	2	08-May-2014 23:56
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	29-Apr-2014 15:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: RW-18-0414
 Collection Date: 11-Apr-2014 11:20

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-32
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:20
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:20
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:20
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:20
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:20
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:20
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 19:20
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 19:20
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:20
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 19:20
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 19:20
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 19:20
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 19:20
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 19:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: RW-18-0414
 Collection Date: 11-Apr-2014 11:20

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-32
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 19:20
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 19:20
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 19:20
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 19:20
Surr: 1,2-Dichloroethane-d4	98.9			70-125	%REC	1	18-Apr-2014 19:20
Surr: 4-Bromofluorobenzene	95.9			72-125	%REC	1	18-Apr-2014 19:20
Surr: Dibromofluoromethane	99.7			71-125	%REC	1	18-Apr-2014 19:20
Surr: Toluene-d8	91.7			75-125	%REC	1	18-Apr-2014 19:20
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 23-Apr-2014 Analyst: ALR	
Arsenic	0.00496	J	0.00200	0.0100	mg/L	2	03-May-2014 03:45
Barium	0.0137		0.00180	0.0100	mg/L	2	03-May-2014 03:45
Calcium	545		0.670	5.00	mg/L	10	06-May-2014 22:34
Chromium	U		0.00200	0.0100	mg/L	2	03-May-2014 03:45
Iron	0.295	J	0.100	0.400	mg/L	2	03-May-2014 03:45
Lead	U		0.00140	0.0100	mg/L	2	03-May-2014 03:45
Manganese	0.00572	J	0.00500	0.0100	mg/L	2	03-May-2014 03:45
Potassium	0.984		0.100	0.400	mg/L	2	03-May-2014 03:45
Selenium	0.0110		0.00200	0.0100	mg/L	2	03-May-2014 03:45
Sodium	218		0.100	0.400	mg/L	2	03-May-2014 03:45
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	5,600		5.00	10.0	mg/L	1	18-Apr-2014 18:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	347		10.0	25.0	mg/L	50	30-Apr-2014 02:05
Fluoride	1.78		0.0500	0.100	mg/L	1	29-Apr-2014 13:40
Sulfate	2,860		10.0	25.0	mg/L	50	30-Apr-2014 02:05
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	3.33		0.150	1.00	mg/L	5	24-Apr-2014 07:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: RW-18-0414-D
Collection Date: 11-Apr-2014 11:20

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-33
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 25-Apr-2014		Analyst: ALR	
Arsenic	0.00353	J	0.00200	0.0100	mg/L	2	09-May-2014 00:05
Barium	0.0108		0.00180	0.0100	mg/L	2	09-May-2014 00:05
Chromium	U		0.00200	0.0100	mg/L	2	09-May-2014 00:05
Iron	U		0.156	0.400	mg/L	2	09-May-2014 00:05
Lead	U		0.00140	0.0100	mg/L	2	09-May-2014 00:05
Manganese	U		0.00500	0.0100	mg/L	2	09-May-2014 00:05
Selenium	0.00964	J	0.00200	0.0100	mg/L	2	09-May-2014 00:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery-Sitewide GW
 Sample ID: TB-032814-15
 Collection Date: 11-Apr-2014 15:00

ANALYTICAL REPORT

WorkOrder:HS14040667
 Lab ID:HS14040667-34
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:24
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:24
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:24
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
2-Butanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:24
2-Hexanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:24
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:24
Acetone	U		0.0020	0.010	mg/L	1	18-Apr-2014 16:24
Benzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Bromoform	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Bromomethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Carbon disulfide	U		0.00090	0.010	mg/L	1	18-Apr-2014 16:24
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Chlorobenzene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:24
Chloroethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Chloroform	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Chloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Ethylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
m,p-Xylene	U		0.00060	0.010	mg/L	1	18-Apr-2014 16:24
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Methylene chloride	U		0.0010	0.010	mg/L	1	18-Apr-2014 16:24
Naphthalene	U		0.00070	0.0050	mg/L	1	18-Apr-2014 16:24
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	18-Apr-2014 16:24
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
o-Xylene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Styrene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Toluene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	18-Apr-2014 16:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Sample ID: TB-032814-15
Collection Date: 11-Apr-2014 15:00

ANALYTICAL REPORT

WorkOrder:HS14040667
Lab ID:HS14040667-34
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	18-Apr-2014 16:24
Trichloroethene	U		0.00050	0.0050	mg/L	1	18-Apr-2014 16:24
Vinyl chloride	U		0.00040	0.0020	mg/L	1	18-Apr-2014 16:24
Xylenes, Total	U		0.0015	0.015	mg/L	1	18-Apr-2014 16:24
Surr: 1,2-Dichloroethane-d4	94.0			70-125	%REC	1	18-Apr-2014 16:24
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	18-Apr-2014 16:24
Surr: Dibromofluoromethane	97.7			71-125	%REC	1	18-Apr-2014 16:24
Surr: Toluene-d8	106			75-125	%REC	1	18-Apr-2014 16:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
WorkOrder: HS14040667

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 80838A	Test Name : TPH DRO/ORO BY SW8015C			Matrix: Water		
HS14040667-01	MW-68-0414	10 Apr 2014 10:00		16 Apr 2014 09:00	17 Apr 2014 20:57	1
HS14040667-03	MW-71-0414	10 Apr 2014 10:35		16 Apr 2014 09:00	17 Apr 2014 21:23	1
HS14040667-06	MW-20-0414	10 Apr 2014 11:50		16 Apr 2014 09:00	17 Apr 2014 21:49	1
HS14040667-08	Dup-5-0414	10 Apr 2014 00:00		16 Apr 2014 09:00	17 Apr 2014 22:15	1
HS14040667-10	MW-8-0414	10 Apr 2014 12:35		16 Apr 2014 09:00	17 Apr 2014 22:41	1
HS14040667-12	MW-21-0414	10 Apr 2014 13:15		16 Apr 2014 09:00	18 Apr 2014 17:42	1
HS14040667-14	EB-8-0414	10 Apr 2014 13:20		16 Apr 2014 09:00	18 Apr 2014 10:23	1
HS14040667-16	MW-135-0414	10 Apr 2014 13:50		16 Apr 2014 09:00	18 Apr 2014 13:35	1
HS14040667-18	MW-57-0414	10 Apr 2014 14:50		16 Apr 2014 09:00	18 Apr 2014 14:01	1
Batch ID 80981	Test Name : TPH DRO/ORO BY SW8015C			Matrix: Water		
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15		18 Apr 2014 09:51	18 Apr 2014 18:08	1
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00		18 Apr 2014 09:51	18 Apr 2014 18:35	1
HS14040667-24	MW-113-0414	11 Apr 2014 09:30		18 Apr 2014 09:51	18 Apr 2014 19:01	1
HS14040667-26	EB-9-0414	11 Apr 2014 09:45		18 Apr 2014 09:51	18 Apr 2014 19:27	1
HS14040667-28	MW-134-0414	11 Apr 2014 10:15		18 Apr 2014 09:51	18 Apr 2014 19:54	1
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45		18 Apr 2014 09:51	18 Apr 2014 20:20	1

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
WorkOrder: HS14040667

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81069	Test Name : ICP-MS METALS BY SW6020A			Matrix: Water		
HS14040667-01	MW-68-0414	10 Apr 2014 10:00		23 Apr 2014 10:00	06 May 2014 21:23	10
HS14040667-01	MW-68-0414	10 Apr 2014 10:00		23 Apr 2014 10:00	03 May 2014 02:07	2
HS14040667-03	MW-71-0414	10 Apr 2014 10:35		23 Apr 2014 10:00	06 May 2014 22:49	1
HS14040667-03	MW-71-0414	10 Apr 2014 10:35		23 Apr 2014 10:00	06 May 2014 21:28	10
HS14040667-06	MW-20-0414	10 Apr 2014 11:50		23 Apr 2014 10:00	06 May 2014 21:33	10
HS14040667-06	MW-20-0414	10 Apr 2014 11:50		23 Apr 2014 10:00	03 May 2014 02:17	2
HS14040667-08	Dup-5-0414	10 Apr 2014 00:00		23 Apr 2014 10:00	06 May 2014 21:38	10
HS14040667-08	Dup-5-0414	10 Apr 2014 00:00		23 Apr 2014 10:00	03 May 2014 02:22	2
HS14040667-10	MW-8-0414	10 Apr 2014 12:35		23 Apr 2014 10:00	06 May 2014 21:43	10
HS14040667-10	MW-8-0414	10 Apr 2014 12:35		23 Apr 2014 10:00	03 May 2014 02:37	2
HS14040667-12	MW-21-0414	10 Apr 2014 13:15		23 Apr 2014 10:00	06 May 2014 21:48	10
HS14040667-12	MW-21-0414	10 Apr 2014 13:15		23 Apr 2014 10:00	03 May 2014 02:41	2
HS14040667-14	EB-8-0414	10 Apr 2014 13:20		23 Apr 2014 10:00	06 May 2014 22:54	1
HS14040667-16	MW-135-0414	10 Apr 2014 13:50		23 Apr 2014 10:00	06 May 2014 22:04	10
HS14040667-16	MW-135-0414	10 Apr 2014 13:50		23 Apr 2014 10:00	03 May 2014 02:56	2
HS14040667-18	MW-57-0414	10 Apr 2014 14:50		23 Apr 2014 10:00	06 May 2014 22:08	10
HS14040667-18	MW-57-0414	10 Apr 2014 14:50		23 Apr 2014 10:00	03 May 2014 03:01	2
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15		23 Apr 2014 10:00	06 May 2014 22:59	1
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15		23 Apr 2014 10:00	06 May 2014 22:13	10
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15		23 Apr 2014 10:00	03 May 2014 03:06	2
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00		23 Apr 2014 10:00	06 May 2014 23:09	1
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00		23 Apr 2014 10:00	06 May 2014 22:18	10
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00		23 Apr 2014 10:00	03 May 2014 03:11	2
HS14040667-24	MW-113-0414	11 Apr 2014 09:30		23 Apr 2014 10:00	03 May 2014 03:26	2
HS14040667-26	EB-9-0414	11 Apr 2014 09:45		23 Apr 2014 10:00	06 May 2014 23:14	1
HS14040667-28	MW-134-0414	11 Apr 2014 10:15		23 Apr 2014 10:00	06 May 2014 22:23	10
HS14040667-28	MW-134-0414	11 Apr 2014 10:15		23 Apr 2014 10:00	03 May 2014 03:36	2
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45		23 Apr 2014 10:00	06 May 2014 23:19	1
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45		23 Apr 2014 10:00	06 May 2014 22:28	10
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45		23 Apr 2014 10:00	03 May 2014 03:40	2
HS14040667-32	RW-18-0414	11 Apr 2014 11:20		23 Apr 2014 10:00	06 May 2014 22:34	10
HS14040667-32	RW-18-0414	11 Apr 2014 11:20		23 Apr 2014 10:00	03 May 2014 03:45	2

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
WorkOrder: HS14040667

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81215	Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water		
HS14040667-02	MW-68-0414-D	10 Apr 2014 10:00		25 Apr 2014 12:00	07 May 2014 23:26	1
HS14040667-04	MW-71-0414-D	10 Apr 2014 10:35		25 Apr 2014 12:00	08 May 2014 00:06	1
HS14040667-07	MW-20-0414-D	10 Apr 2014 11:50		25 Apr 2014 12:00	08 May 2014 00:11	1
HS14040667-09	Dup-5-0414-D	10 Apr 2014 00:00		25 Apr 2014 12:00	08 May 2014 00:15	1
HS14040667-11	MW-8-0414-D	10 Apr 2014 12:35		25 Apr 2014 12:00	08 May 2014 00:20	1
HS14040667-13	MW-21-0414-D	10 Apr 2014 13:15		25 Apr 2014 12:00	08 May 2014 00:25	1
HS14040667-15	EB-8-1414-D	10 Apr 2014 13:20		25 Apr 2014 12:00	08 May 2014 00:30	1
HS14040667-17	MW-135-0414-D	10 Apr 2014 13:50		25 Apr 2014 12:00	08 May 2014 21:58	1
HS14040667-19	MW-57-0414-D	10 Apr 2014 14:50		25 Apr 2014 12:00	08 May 2014 22:03	10
HS14040667-19	MW-57-0414-D	10 Apr 2014 14:50		25 Apr 2014 12:00	08 May 2014 02:12	1
HS14040667-21	KWB-12B-0414-D	11 Apr 2014 08:15		25 Apr 2014 12:00	08 May 2014 02:22	1
HS14040667-23	Dup-6-0414-D	11 Apr 2014 00:00		25 Apr 2014 12:00	08 May 2014 23:36	2
HS14040667-23	Dup-6-0414-D	11 Apr 2014 00:00		25 Apr 2014 12:00	08 May 2014 02:27	1
HS14040667-25	MW-113-01414-D	11 Apr 2014 09:30		25 Apr 2014 12:00	08 May 2014 23:41	1
HS14040667-25	MW-113-01414-D	11 Apr 2014 09:30		25 Apr 2014 12:00	08 May 2014 02:51	1
HS14040667-27	EB-9-0414-D	11 Apr 2014 09:45		25 Apr 2014 12:00	08 May 2014 02:56	1
HS14040667-29	MW-134-0414-D	11 Apr 2014 10:15		25 Apr 2014 12:00	08 May 2014 23:51	2
HS14040667-31	KWB-1A-0414-D	11 Apr 2014 10:45		25 Apr 2014 12:00	08 May 2014 23:56	2
HS14040667-33	RW-18-0414-D	11 Apr 2014 11:20		25 Apr 2014 12:00	09 May 2014 00:05	2
Batch ID 81269	Test Name : ICP-MS METALS BY SW6020A			Matrix: Water		
HS14040667-05	NP-1-0414	10 Apr 2014 11:15		28 Apr 2014 10:07	06 May 2014 20:53	1
HS14040667-05	NP-1-0414	10 Apr 2014 11:15		28 Apr 2014 10:07	06 May 2014 20:48	10
HS14040667-05	NP-1-0414	10 Apr 2014 11:15		28 Apr 2014 10:07	06 May 2014 07:34	2
Batch ID 81307	Test Name : DISSOLVED MERCURY BY SW7470A			Matrix: Water		
HS14040667-04	MW-71-0414-D	10 Apr 2014 10:35		29 Apr 2014 09:00	29 Apr 2014 13:34	1
HS14040667-15	EB-8-1414-D	10 Apr 2014 13:20		29 Apr 2014 09:00	29 Apr 2014 13:46	1
HS14040667-21	KWB-12B-0414-D	11 Apr 2014 08:15		29 Apr 2014 09:00	29 Apr 2014 13:48	1
HS14040667-23	Dup-6-0414-D	11 Apr 2014 00:00		29 Apr 2014 09:00	29 Apr 2014 13:50	1
HS14040667-27	EB-9-0414-D	11 Apr 2014 09:45		29 Apr 2014 09:00	29 Apr 2014 13:51	1
Batch ID 81311	Test Name : MERCURY BY SW7470A			Matrix: Water		
HS14040667-03	MW-71-0414	10 Apr 2014 10:35		29 Apr 2014 10:19	29 Apr 2014 14:58	1
HS14040667-14	EB-8-0414	10 Apr 2014 13:20		29 Apr 2014 10:19	29 Apr 2014 14:59	1
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15		29 Apr 2014 10:19	29 Apr 2014 15:01	1
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00		29 Apr 2014 10:19	29 Apr 2014 15:03	1
HS14040667-26	EB-9-0414	11 Apr 2014 09:45		29 Apr 2014 10:19	29 Apr 2014 15:05	1
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45		29 Apr 2014 10:19	29 Apr 2014 15:06	1
HS14040667-31	KWB-1A-0414-D	11 Apr 2014 10:45		29 Apr 2014 10:19	29 Apr 2014 15:08	1

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
WorkOrder: HS14040667

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81348 Test Name : CYANIDE BY SW9012B Matrix: Water						
HS14040667-03	MW-71-0414	10 Apr 2014 10:35		24 Apr 2014 15:55	29 Apr 2014 16:52	1
HS14040667-14	EB-8-0414	10 Apr 2014 13:20		24 Apr 2014 15:55	29 Apr 2014 16:52	1
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15		24 Apr 2014 15:55	29 Apr 2014 16:52	1
HS14040667-26	EB-9-0414	11 Apr 2014 09:45		24 Apr 2014 15:55	29 Apr 2014 16:52	1
Batch ID R232038 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040667-01	MW-68-0414	10 Apr 2014 10:00			17 Apr 2014 18:16	1
HS14040667-16	MW-135-0414	10 Apr 2014 13:50			17 Apr 2014 18:39	1
Batch ID R232142 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040667-03	MW-71-0414	10 Apr 2014 10:35			18 Apr 2014 13:28	1
HS14040667-05	NP-1-0414	10 Apr 2014 11:15			18 Apr 2014 13:53	1
HS14040667-06	MW-20-0414	10 Apr 2014 11:50			18 Apr 2014 14:18	1
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15			18 Apr 2014 16:49	1
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00			18 Apr 2014 17:14	1
HS14040667-24	MW-113-0414	11 Apr 2014 09:30			18 Apr 2014 17:39	1
HS14040667-26	EB-9-0414	11 Apr 2014 09:45			18 Apr 2014 19:45	1
HS14040667-28	MW-134-0414	11 Apr 2014 10:15			18 Apr 2014 18:30	1
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45			18 Apr 2014 18:55	1
HS14040667-32	RW-18-0414	11 Apr 2014 11:20			18 Apr 2014 19:20	1
HS14040667-34	TB-032814-15	11 Apr 2014 15:00			18 Apr 2014 16:24	1
Batch ID R232152 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040667-08	Dup-5-0414	10 Apr 2014 00:00			18 Apr 2014 19:59	1
HS14040667-10	MW-8-0414	10 Apr 2014 12:35			18 Apr 2014 20:23	1
HS14040667-12	MW-21-0414	10 Apr 2014 13:15			18 Apr 2014 20:47	1
HS14040667-14	EB-8-0414	10 Apr 2014 13:20			18 Apr 2014 21:11	1
HS14040667-18	MW-57-0414	10 Apr 2014 14:50			18 Apr 2014 21:35	1

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
WorkOrder: HS14040667

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R232165 Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C Matrix: Water						
HS14040667-01	MW-68-0414	10 Apr 2014 10:00			17 Apr 2014 17:50	1
HS14040667-03	MW-71-0414	10 Apr 2014 10:35			17 Apr 2014 17:50	1
HS14040667-05	NP-1-0414	10 Apr 2014 11:15			17 Apr 2014 17:50	1
HS14040667-06	MW-20-0414	10 Apr 2014 11:50			17 Apr 2014 17:50	1
HS14040667-08	Dup-5-0414	10 Apr 2014 00:00			17 Apr 2014 17:50	1
HS14040667-10	MW-8-0414	10 Apr 2014 12:35			17 Apr 2014 17:50	1
HS14040667-12	MW-21-0414	10 Apr 2014 13:15			17 Apr 2014 17:50	1
HS14040667-14	EB-8-0414	10 Apr 2014 13:20			17 Apr 2014 17:50	1
HS14040667-16	MW-135-0414	10 Apr 2014 13:50			17 Apr 2014 17:50	1
HS14040667-18	MW-57-0414	10 Apr 2014 14:50			17 Apr 2014 17:50	1
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15			17 Apr 2014 17:50	1
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00			17 Apr 2014 17:50	1
Batch ID R232275 Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C Matrix: Water						
HS14040667-24	MW-113-0414	11 Apr 2014 09:30			18 Apr 2014 18:50	1
HS14040667-26	EB-9-0414	11 Apr 2014 09:45			18 Apr 2014 18:50	1
HS14040667-28	MW-134-0414	11 Apr 2014 10:15			18 Apr 2014 18:50	1
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45			18 Apr 2014 18:50	1
HS14040667-32	RW-18-0414	11 Apr 2014 11:20			18 Apr 2014 18:50	1
Batch ID R232323 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040667-24	MW-113-0414	11 Apr 2014 09:30			21 Apr 2014 13:38	25
Batch ID R232458 Test Name : GASOLINE RANGE ORGANICS BY SW8015C Matrix: Water						
HS14040667-10	MW-8-0414	10 Apr 2014 12:35			23 Apr 2014 20:08	1
HS14040667-12	MW-21-0414	10 Apr 2014 13:15			23 Apr 2014 20:26	1
HS14040667-14	EB-8-0414	10 Apr 2014 13:20			23 Apr 2014 20:44	1
Batch ID R232520 Test Name : GASOLINE RANGE ORGANICS BY SW8015C Matrix: Water						
HS14040667-16	MW-135-0414	10 Apr 2014 13:50			24 Apr 2014 13:55	1
HS14040667-18	MW-57-0414	10 Apr 2014 14:50			24 Apr 2014 14:31	1
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15			24 Apr 2014 18:54	1
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00			24 Apr 2014 14:50	1
HS14040667-24	MW-113-0414	11 Apr 2014 09:30			24 Apr 2014 15:08	1
HS14040667-26	EB-9-0414	11 Apr 2014 09:45			24 Apr 2014 15:26	1
HS14040667-28	MW-134-0414	11 Apr 2014 10:15			24 Apr 2014 15:45	1

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
WorkOrder: HS14040667

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R232798	Test Name : ANIONS BY E300.0			Matrix: Water		
HS14040667-01	MW-68-0414	10 Apr 2014 10:00			29 Apr 2014 06:25	1
HS14040667-01	MW-68-0414	10 Apr 2014 10:00			28 Apr 2014 21:59	5
HS14040667-03	MW-71-0414	10 Apr 2014 10:35			29 Apr 2014 06:50	1
HS14040667-05	NP-1-0414	10 Apr 2014 11:15			29 Apr 2014 07:14	1
HS14040667-05	NP-1-0414	10 Apr 2014 11:15			28 Apr 2014 22:47	5
HS14040667-06	MW-20-0414	10 Apr 2014 11:50			29 Apr 2014 07:38	1
HS14040667-06	MW-20-0414	10 Apr 2014 11:50			28 Apr 2014 23:11	5
HS14040667-08	Dup-5-0414	10 Apr 2014 00:00			29 Apr 2014 08:02	1
HS14040667-08	Dup-5-0414	10 Apr 2014 00:00			28 Apr 2014 23:35	5
HS14040667-10	MW-8-0414	10 Apr 2014 12:35			29 Apr 2014 08:26	1
HS14040667-10	MW-8-0414	10 Apr 2014 12:35			28 Apr 2014 23:59	5
HS14040667-12	MW-21-0414	10 Apr 2014 13:15			29 Apr 2014 08:50	1
HS14040667-14	EB-8-0414	10 Apr 2014 13:20			29 Apr 2014 09:14	1
HS14040667-16	MW-135-0414	10 Apr 2014 13:50			29 Apr 2014 10:27	1
HS14040667-18	MW-57-0414	10 Apr 2014 14:50			29 Apr 2014 10:51	1
HS14040667-18	MW-57-0414	10 Apr 2014 14:50			29 Apr 2014 02:00	5
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15			29 Apr 2014 11:15	1
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15			29 Apr 2014 02:24	5
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00			29 Apr 2014 11:39	1
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00			29 Apr 2014 02:48	5
HS14040667-24	MW-113-0414	11 Apr 2014 09:30			29 Apr 2014 12:03	1
HS14040667-24	MW-113-0414	11 Apr 2014 09:30			29 Apr 2014 03:12	5
HS14040667-26	EB-9-0414	11 Apr 2014 09:45			29 Apr 2014 12:27	1
HS14040667-28	MW-134-0414	11 Apr 2014 10:15			29 Apr 2014 12:52	1
HS14040667-28	MW-134-0414	11 Apr 2014 10:15			29 Apr 2014 03:36	5
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45			29 Apr 2014 13:16	1
HS14040667-32	RW-18-0414	11 Apr 2014 11:20			29 Apr 2014 13:40	1

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
WorkOrder: HS14040667

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R232849 Test Name : ANIONS BY E300.0 Matrix: Water						
HS14040667-01	MW-68-0414	10 Apr 2014 10:00			29 Apr 2014 19:38	50
HS14040667-03	MW-71-0414	10 Apr 2014 10:35			29 Apr 2014 20:03	50
HS14040667-05	NP-1-0414	10 Apr 2014 11:15			29 Apr 2014 20:27	50
HS14040667-06	MW-20-0414	10 Apr 2014 11:50			29 Apr 2014 20:51	50
HS14040667-08	Dup-5-0414	10 Apr 2014 00:00			29 Apr 2014 21:15	50
HS14040667-10	MW-8-0414	10 Apr 2014 12:35			29 Apr 2014 21:39	50
HS14040667-12	MW-21-0414	10 Apr 2014 13:15			29 Apr 2014 22:03	50
HS14040667-16	MW-135-0414	10 Apr 2014 13:50			29 Apr 2014 22:27	50
HS14040667-18	MW-57-0414	10 Apr 2014 14:50			29 Apr 2014 23:40	50
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15			30 Apr 2014 00:04	50
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00			30 Apr 2014 00:28	50
HS14040667-24	MW-113-0414	11 Apr 2014 09:30			30 Apr 2014 00:52	50
HS14040667-28	MW-134-0414	11 Apr 2014 10:15			30 Apr 2014 01:16	50
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45			30 Apr 2014 01:40	50
HS14040667-32	RW-18-0414	11 Apr 2014 11:20			30 Apr 2014 02:05	50
Batch ID R232938 Test Name : NITRATE/NITRITE BY E300.0 Matrix: Water						
HS14040667-01	MW-68-0414	10 Apr 2014 10:00			24 Apr 2014 02:41	5
HS14040667-03	MW-71-0414	10 Apr 2014 10:35			24 Apr 2014 02:56	5
HS14040667-05	NP-1-0414	10 Apr 2014 11:15			24 Apr 2014 03:10	5
HS14040667-06	MW-20-0414	10 Apr 2014 11:50			24 Apr 2014 03:25	5
HS14040667-08	Dup-5-0414	10 Apr 2014 00:00			24 Apr 2014 03:39	5
HS14040667-10	MW-8-0414	10 Apr 2014 12:35			24 Apr 2014 03:54	5
HS14040667-12	MW-21-0414	10 Apr 2014 13:15			24 Apr 2014 04:08	5
HS14040667-14	EB-8-0414	10 Apr 2014 13:20			24 Apr 2014 04:23	5
HS14040667-16	MW-135-0414	10 Apr 2014 13:50			24 Apr 2014 05:06	5
HS14040667-18	MW-57-0414	10 Apr 2014 14:50			24 Apr 2014 05:21	5
HS14040667-20	KWB-12B-0414	11 Apr 2014 08:15			24 Apr 2014 05:36	5
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00			24 Apr 2014 05:50	5
HS14040667-24	MW-113-0414	11 Apr 2014 09:30			24 Apr 2014 06:05	5
HS14040667-26	EB-9-0414	11 Apr 2014 09:45			24 Apr 2014 06:19	5
HS14040667-28	MW-134-0414	11 Apr 2014 10:15			24 Apr 2014 06:34	5
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45			24 Apr 2014 06:48	5
HS14040667-32	RW-18-0414	11 Apr 2014 11:20			24 Apr 2014 07:32	5
Batch ID R233006 Test Name : CYANIDE BY SW9012B Matrix: Water						
HS14040667-22	Dup-6-0414	11 Apr 2014 00:00		25 Apr 2014 13:27	29 Apr 2014 10:24	1
HS14040667-30	KWB-1A-0414	11 Apr 2014 10:45		25 Apr 2014 01:27	29 Apr 2014 10:24	1

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 80838A		Instrument: FID-16		Method: SW8015M	
MBLK	Sample ID: LBLKW-80838	Units: mg/L		Analysis Date: 17-Apr-2014 14:32	
Client ID:	Run ID: FID-16_232252	SeqNo: 2803804		PrepDate: 16-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
TPH (Diesel Range)	U	0.050			
Surr: 2-Fluorobiphenyl	0.04547	0.0050	0.06061	0 75.0	60 - 135
LCS	Sample ID: LLC SW-80838	Units: mg/L		Analysis Date: 17-Apr-2014 14:58	
Client ID:	Run ID: FID-16_232252	SeqNo: 2803805		PrepDate: 16-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
TPH (Diesel Range)	0.5371	0.050	0.6061	0 88.6	70 - 130
Surr: 2-Fluorobiphenyl	0.05148	0.0050	0.06061	0 84.9	60 - 135
LCSD	Sample ID: LLCSDW-80838	Units: mg/L		Analysis Date: 17-Apr-2014 15:24	
Client ID:	Run ID: FID-16_232252	SeqNo: 2803806		PrepDate: 16-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
TPH (Diesel Range)	0.5791	0.050	0.6061	0 95.5	70 - 130 0.5371 7.53 20
Surr: 2-Fluorobiphenyl	0.04933	0.0050	0.06061	0 81.4	60 - 135 0.05148 4.25 20
The following samples were analyzed in this batch:					
HS14040667-01		HS14040667-03		HS14040667-06	
HS14040667-10		HS14040667-12		HS14040667-14	
HS14040667-18				HS14040667-08	
				HS14040667-16	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 80981		Instrument: FID-16		Method: SW8015M	
MBLK	Sample ID: LBLKW-140418	Units: mg/L		Analysis Date: 18-Apr-2014 15:56	
Client ID:	Run ID: FID-16_232341	SeqNo: 2803843		PrepDate: 18-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) U 0.050

Surr: 2-Fluorobiphenyl 0.06393 0.0050 0.06061 0 105 60 - 135

LCS	Sample ID: LLC SW-140418	Units: mg/L		Analysis Date: 18-Apr-2014 16:23	
Client ID:	Run ID: FID-16_232341	SeqNo: 2803844		PrepDate: 18-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) 0.6513 0.050 0.6061 0 107 70 - 130

Surr: 2-Fluorobiphenyl 0.07855 0.0050 0.06061 0 130 60 - 135

LCSD	Sample ID: LLCSDW-140418	Units: mg/L		Analysis Date: 18-Apr-2014 16:49	
Client ID:	Run ID: FID-16_232341	SeqNo: 2803845		PrepDate: 18-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) 0.5585 0.050 0.6061 0 92.2 70 - 130 0.6513 15.3 20

Surr: 2-Fluorobiphenyl 0.07776 0.0050 0.06061 0 128 60 - 135 0.07855 1.01 20

The following samples were analyzed in this batch:

HS14040667-20	HS14040667-22	HS14040667-24	HS14040667-26
HS14040667-28	HS14040667-30		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232458		Instrument: FID-9		Method: SW8015					
MBLK	Sample ID: GBLKW-140423	Units: mg/L		Analysis Date: 23-Apr-2014 12:45					
Client ID:	Run ID: FID-9_232458	SeqNo: 2806836		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	U	0.0500							
Surr: 4-Bromofluorobenzene	0.1076	0.00500	0.1	0	108	70 - 130			
LCS	Sample ID: GLCSW-140423	Units: mg/L		Analysis Date: 23-Apr-2014 12:08					
Client ID:	Run ID: FID-9_232458	SeqNo: 2806835		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.126	0.0500	1	0	113	70 - 130			
Surr: 4-Bromofluorobenzene	0.08463	0.00500	0.1	0	84.6	70 - 130			
MS	Sample ID: HS14040510-03MS	Units: mg/L		Analysis Date: 23-Apr-2014 14:35					
Client ID:	Run ID: FID-9_232458	SeqNo: 2806839		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.055	0.0500	1	0	106	70 - 130			
Surr: 4-Bromofluorobenzene	0.1175	0.00500	0.1	0	118	70 - 130			
MSD	Sample ID: HS14040510-03MSD	Units: mg/L		Analysis Date: 23-Apr-2014 14:53					
Client ID:	Run ID: FID-9_232458	SeqNo: 2806840		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.061	0.0500	1	0	106	70 - 130	1.055	0.541	30
Surr: 4-Bromofluorobenzene	0.1195	0.00500	0.1	0	120	70 - 130	0.1175	1.69	30
The following samples were analyzed in this batch:									
HS14040667-10		HS14040667-12		HS14040667-14					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232520		Instrument: FID-9		Method: SW8015					
MBLK	Sample ID: GBLKW-140424	Units: mg/L		Analysis Date: 24-Apr-2014 12:07					
Client ID:	Run ID: FID-9_232520	SeqNo: 2808487		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	U	0.0500							
Surr: 4-Bromofluorobenzene	0.08266	0.00500	0.1	0	82.7	70 - 130			
LCS	Sample ID: GLCSW-140424	Units: mg/L		Analysis Date: 24-Apr-2014 11:31					
Client ID:	Run ID: FID-9_232520	SeqNo: 2808485		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.021	0.0500	1	0	102	70 - 130			
Surr: 4-Bromofluorobenzene	0.1187	0.00500	0.1	0	119	70 - 130			
MS	Sample ID: HS14040667-20MS	Units: mg/L		Analysis Date: 24-Apr-2014 13:19					
Client ID: KWB-12B-0414	Run ID: FID-9_232520	SeqNo: 2808489		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.053	0.0500	1	0	105	70 - 130			
Surr: 4-Bromofluorobenzene	0.0985	0.00500	0.1	0	98.5	70 - 130			
MSD	Sample ID: HS14040667-20MSD	Units: mg/L		Analysis Date: 24-Apr-2014 13:37					
Client ID: KWB-12B-0414	Run ID: FID-9_232520	SeqNo: 2808490		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.041	0.0500	1	0	104	70 - 130	1.053	1.14	30
Surr: 4-Bromofluorobenzene	0.1177	0.00500	0.1	0	118	70 - 130	0.0985	17.8	30
The following samples were analyzed in this batch:									
HS14040667-16		HS14040667-18		HS14040667-20		HS14040667-22			
HS14040667-24		HS14040667-26		HS14040667-28					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81069		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW3-042314	Units: mg/L		Analysis Date: 02-May-2014 19:57	
Client ID:	Run ID: ICP7500_233045	SeqNo: 2819995		PrepDate: 23-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	U	0.00500			
Barium	U	0.00500			
Calcium	U	0.500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Nickel	U	0.00500			
Potassium	U	0.200			
Selenium	U	0.00500			
Sodium	U	0.200			
Vanadium	U	0.00500			

LCS	Sample ID: MLCSW3-042314	Units: mg/L		Analysis Date: 02-May-2014 20:02	
Client ID:	Run ID: ICP7500_233045	SeqNo: 2819996		PrepDate: 23-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	0.05355	0.00500	0.05	0	107	80 - 120
Barium	0.05292	0.00500	0.05	0	106	80 - 120
Calcium	5.22	0.500	5	0	104	80 - 120
Chromium	0.04862	0.00500	0.05	0	97.2	80 - 120
Iron	4.939	0.200	5	0	98.8	80 - 120
Lead	0.04869	0.00500	0.05	0	97.4	80 - 120
Manganese	0.05024	0.00500	0.05	0	100	80 - 120
Nickel	0.04637	0.00500	0.05	0	92.7	80 - 120
Potassium	5.002	0.200	5	0	100	80 - 120
Selenium	0.05134	0.00500	0.05	0	103	80 - 120
Sodium	4.746	0.200	5	0	94.9	80 - 120
Vanadium	0.04882	0.00500	0.05	0	97.6	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81069		Instrument: ICP7500		Method: SW6020					
MS		Sample ID: HS14040425-01MS		Units: mg/L		Analysis Date: 02-May-2014 20:22			
Client ID:		Run ID: ICP7500_233045		SeqNo: 2820000		PrepDate: 23-Apr-2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.0538	0.00500	0.05	0.0008402	106	80 - 120			
Barium	0.08673	0.00500	0.05	0.03123	111	80 - 120			
Calcium	27.82	0.500	5	21.74	122	80 - 120			SO
Chromium	0.05094	0.00500	0.05	0.00133	99.2	80 - 120			
Iron	6.183	0.200	5	1.017	103	80 - 120			
Lead	0.04949	0.00500	0.05	0.0004099	98.2	80 - 120			
Manganese	0.1732	0.00500	0.05	0.1213	104	80 - 120			
Nickel	0.04828	0.00500	0.05	-0.0009252	98.4	80 - 120			
Potassium	6.942	0.200	5	1.621	106	80 - 120			
Selenium	0.05603	0.00500	0.05	0.0005284	111	80 - 120			
Sodium	7.465	0.200	5	2.536	98.6	80 - 120			
Vanadium	0.05172	0.00500	0.05	0.001812	99.8	80 - 120			

MSD		Sample ID: HS14040425-01MSD		Units: mg/L		Analysis Date: 02-May-2014 20:27			
Client ID:		Run ID: ICP7500_233045		SeqNo: 2820001		PrepDate: 23-Apr-2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.05434	0.00500	0.05	0.0008402	107	80 - 120	0.0538	0.999	15
Barium	0.0865	0.00500	0.05	0.03123	111	80 - 120	0.08673	0.266	15
Calcium	26.72	0.500	5	21.74	99.6	80 - 120	27.82	4.03	15 O
Chromium	0.05136	0.00500	0.05	0.00133	100	80 - 120	0.05094	0.821	15
Iron	6.08	0.200	5	1.017	101	80 - 120	6.183	1.68	15
Lead	0.04975	0.00500	0.05	0.0004099	98.7	80 - 120	0.04949	0.524	15
Manganese	0.1694	0.00500	0.05	0.1213	96.2	80 - 120	0.1732	2.22	15
Nickel	0.04783	0.00500	0.05	-0.0009252	97.5	80 - 120	0.04828	0.936	15
Potassium	6.91	0.200	5	1.621	106	80 - 120	6.942	0.462	15
Selenium	0.05431	0.00500	0.05	0.0005284	108	80 - 120	0.05603	3.12	15
Sodium	7.471	0.200	5	2.536	98.7	80 - 120	7.465	0.0803	15
Vanadium	0.05125	0.00500	0.05	0.001812	98.9	80 - 120	0.05172	0.913	15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81069		Instrument: ICP7500		Method: SW6020					
DUP	Sample ID: HS14040425-01DUP	Units: mg/L			Analysis Date: 02-May-2014 20:12				
Client ID:	Run ID: ICP7500_233045	SeqNo: 2819998		PrepDate: 23-Apr-2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	U	0.00500					0.0008402	0	25
Barium	0.03036	0.00500					0.03123	2.83	25
Calcium	22.36	0.500					21.74	2.81	25
Chromium	0.001224	0.00500					0.00133	0	25
Iron	1.042	0.200					1.017	2.43	25
Lead	U	0.00500					0.0004099	0	25
Manganese	0.1233	0.00500					0.1213	1.64	25
Nickel	U	0.00500					-0.0009252	0	25
Potassium	1.63	0.200					1.621	0.554	25
Selenium	0.0006821	0.00500					0.0005284	0	25
Sodium	2.529	0.200					2.536	0.276	25
Vanadium	0.001934	0.00500					0.001812	0	25
PDS	Sample ID: HS14040425-01BS	Units: mg/L			Analysis Date: 02-May-2014 20:32				
Client ID:	Run ID: ICP7500_233045	SeqNo: 2820002		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.09866	0.00500	0.1	0.0008402	97.8	75 - 125			
Barium	0.1246	0.00500	0.1	0.03123	93.4	75 - 125			
Calcium	30.38	0.500	10	21.74	86.4	75 - 125			
Chromium	0.0937	0.00500	0.1	0.00133	92.4	75 - 125			
Iron	10.08	0.200	10	1.017	90.6	75 - 125			
Lead	0.09477	0.00500	0.1	0.0004099	94.4	75 - 125			
Manganese	0.209	0.00500	0.1	0.1213	87.7	75 - 125			
Nickel	0.09112	0.00500	0.1	-0.0009252	92.0	75 - 125			
Potassium	11.23	0.200	10	1.621	96.1	75 - 125			
Selenium	0.1008	0.00500	0.1	0.0005284	100	75 - 125			
Sodium	11.7	0.200	10	2.536	91.6	75 - 125			
Vanadium	0.094	0.00500	0.1	0.001812	92.2	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81069		Instrument: ICP7500		Method: SW6020						
SD	Sample ID: HS14040425-01	DIL SX		Units: mg/L	Analysis Date: 02-May-2014 20:17					
Client ID:		Run ID: ICP7500_233045		SeqNo: 2819999	PrepDate:		DF: 5			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic		U	0.0250					0.0008402	0	10
Barium		0.03453	0.0250					0.03123	10.6	10
Calcium		22.68	2.50					21.74	4.35	10
Chromium		U	0.0250					0.00133	0	10
Iron		0.8895	1.00					1.017	12.5	10
Lead		U	0.0250					0.0004099	0	10
Manganese		0.1248	0.0250					0.1213	2.93	10
Nickel		U	0.0250					-0.0009252	0	10
Potassium		1.595	1.00					1.621	1.6	10
Selenium		U	0.0250					0.0005284	0	10
Sodium		2.602	1.00					2.536	2.6	10
Vanadium		U	0.0250					0.001812	0	10
The following samples were analyzed in this batch:		HS14040667-01		HS14040667-03		HS14040667-06		HS14040667-08		
		HS14040667-10		HS14040667-12		HS14040667-14		HS14040667-16		
		HS14040667-18		HS14040667-20		HS14040667-22		HS14040667-24		
		HS14040667-26		HS14040667-28		HS14040667-30		HS14040667-32		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81215		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW5-042514	Units: mg/L		Analysis Date: 07-May-2014 23:16	
Client ID:	Run ID: ICP7500_233288	SeqNo: 2826553		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	U	0.00500			
Barium	U	0.00500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Nickel	U	0.00500			
Selenium	0.001002	0.00500			J
Vanadium	U	0.00500			

LCS	Sample ID: MLCSW5-042514	Units: mg/L		Analysis Date: 07-May-2014 23:21	
Client ID:	Run ID: ICP7500_233288	SeqNo: 2826554		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.0531	0.00500	0.05	0 106	80 - 120
Barium	0.05614	0.00500	0.05	0 112	80 - 120
Chromium	0.05316	0.00500	0.05	0 106	80 - 120
Iron	5.263	0.200	5	0 105	80 - 120
Lead	0.0519	0.00500	0.05	0 104	80 - 120
Manganese	0.05394	0.00500	0.05	0 108	80 - 120
Nickel	0.05344	0.00500	0.05	0 107	80 - 120
Selenium	0.05542	0.00500	0.05	0 111	80 - 120
Vanadium	0.05283	0.00500	0.05	0 106	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81215		Instrument: ICP7500		Method: SW6020					
MS		Sample ID: HS14040667-02MS		Units: mg/L		Analysis Date: 07-May-2014 23:41			
Client ID: MW-68-0414-D		Run ID: ICP7500_233288		SeqNo: 2826558		PrepDate: 25-Apr-2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.06478	0.00500	0.05	0.004134	121	75 - 125			
Barium	0.06909	0.00500	0.05	0.01353	111	75 - 125			
Chromium	0.05364	0.00500	0.05	0.0009254	105	75 - 125			
Iron	5.147	0.200	5	0.02373	102	75 - 125			
Lead	0.05208	0.00500	0.05	0.000008913	104	75 - 125			
Manganese	0.05241	0.00500	0.05	0.0008997	103	75 - 125			
Nickel	0.05116	0.00500	0.05	0.001457	99.4	75 - 125			
Selenium	0.09473	0.00500	0.05	0.03015	129	75 - 125			S
Vanadium	0.07361	0.00500	0.05	0.01823	111	75 - 125			

MSD		Sample ID: HS14040667-02MSD		Units: mg/L		Analysis Date: 07-May-2014 23:46			
Client ID: MW-68-0414-D		Run ID: ICP7500_233288		SeqNo: 2826559		PrepDate: 25-Apr-2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.0665	0.00500	0.05	0.004134	125	75 - 125	0.06478	2.62	25
Barium	0.07076	0.00500	0.05	0.01353	114	75 - 125	0.06909	2.39	25
Chromium	0.05552	0.00500	0.05	0.0009254	109	75 - 125	0.05364	3.44	25
Iron	5.333	0.200	5	0.02373	106	75 - 125	5.147	3.55	25
Lead	0.05326	0.00500	0.05	0.000008913	107	75 - 125	0.05208	2.24	25
Manganese	0.05438	0.00500	0.05	0.0008997	107	75 - 125	0.05241	3.69	25
Nickel	0.05425	0.00500	0.05	0.001457	106	75 - 125	0.05116	5.86	25
Selenium	0.09575	0.00500	0.05	0.03015	131	75 - 125	0.09473	1.07	25 S
Vanadium	0.07619	0.00500	0.05	0.01823	116	75 - 125	0.07361	3.44	25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81215		Instrument: ICP7500		Method: SW6020						
DUP	Sample ID: HS14040667-02DUP	Units: mg/L			Analysis Date: 07-May-2014 23:31					
Client ID: MW-68-0414-D	Run ID: ICP7500_233288	SeqNo: 2826556		PrepDate: 25-Apr-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.003702	0.00500					0.004134	0	25	J
Barium	0.013	0.00500					0.01353	4	25	
Chromium	U	0.00500					0.0009254	0	25	
Iron	U	0.200					0.02373	0	25	
Lead	U	0.00500					0.000008913	0	25	
Manganese	U	0.00500					0.0008997	0	25	
Nickel	0.001588	0.00500					0.001457	0	25	J
Selenium	0.03095	0.00500					0.03015	2.62	25	
Vanadium	0.01758	0.00500					0.01823	3.63	25	

PDS	Sample ID: HS14040667-02BS	Units: mg/L			Analysis Date: 07-May-2014 23:51					
Client ID: MW-68-0414-D	Run ID: ICP7500_233288	SeqNo: 2826560		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1193	0.00500	0.1	0.004134	115	75 - 125				
Barium	0.1213	0.00500	0.1	0.01353	108	75 - 125				
Chromium	0.1024	0.00500	0.1	0.0009254	101	75 - 125				
Iron	9.929	0.200	10	0.02373	99.1	75 - 125				
Lead	0.09966	0.00500	0.1	0.000008913	99.7	75 - 125				
Manganese	0.1018	0.00500	0.1	0.0008997	101	75 - 125				
Nickel	0.09931	0.00500	0.1	0.001457	97.9	75 - 125				
Selenium	0.1565	0.00500	0.1	0.03015	126	75 - 125				S
Vanadium	0.1252	0.00500	0.1	0.01823	107	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81215		Instrument: ICP7500		Method: SW6020					
SD	Sample ID: HS14040667-02 DIL SX	Units: mg/L		Analysis Date: 07-May-2014 23:36					
Client ID: MW-68-0414-D	Run ID: ICP7500_233288	SeqNo: 2826557		PrepDate:		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	U	0.0250					0.004134	0	10
Barium	0.01321	0.0250					0.01353	0	10 J
Chromium	U	0.0250					0	0	10
Iron	U	1.00					0	0	10
Lead	U	0.0250					0	0	10
Manganese	U	0.0250					0	0	10
Nickel	U	0.0250					0.001457	0	10
Selenium	0.02422	0.0250					0.03015	19.7	10 JR
Vanadium	0.01792	0.0250					0.01823	0	10 J
The following samples were anayzed in this batch:		HS14040667-02	HS14040667-04	HS14040667-07	HS14040667-09				
		HS14040667-11	HS14040667-13	HS14040667-15	HS14040667-17				
		HS14040667-19	HS14040667-21	HS14040667-23	HS14040667-25				
		HS14040667-27	HS14040667-29	HS14040667-31	HS14040667-33				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81269		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW2-042814	Units: mg/L		Analysis Date: 06-May-2014 16:51	
Client ID:	Run ID: ICP7500_233223	SeqNo: 2823939		PrepDate: 28-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	U	0.500			
Potassium	U	0.200			
Sodium	U	0.200			

LCS	Sample ID: MLCSW2-042814	Units: mg/L		Analysis Date: 06-May-2014 04:33	
Client ID:	Run ID: ICP7500_233110	SeqNo: 2823298		PrepDate: 28-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	5.177	0.500	5	0 104	80 - 120
Potassium	5.181	0.200	5	0 104	80 - 120
Sodium	5.002	0.200	5	0 100	80 - 120

MS	Sample ID: HS14040638-01MS	Units: mg/L		Analysis Date: 06-May-2014 04:53	
Client ID:	Run ID: ICP7500_233110	SeqNo: 2823302		PrepDate: 28-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	59.96	0.500	5	51.51 169	80 - 120 SO
Potassium	6.948	0.200	5	1.613 107	80 - 120
Sodium	47.95	0.200	5	41.2 135	80 - 120 SO

MSD	Sample ID: HS14040638-01MSD	Units: mg/L		Analysis Date: 06-May-2014 04:58	
Client ID:	Run ID: ICP7500_233110	SeqNo: 2823303		PrepDate: 28-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	58.35	0.500	5	51.51 137	80 - 120 59.96 2.72 15 SO
Potassium	6.935	0.200	5	1.613 106	80 - 120 6.948 0.187 15
Sodium	47.63	0.200	5	41.2 129	80 - 120 47.95 0.67 15 SO

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81269		Instrument: ICP7500		Method: SW6020	
DUP	Sample ID: HS14040638-01DUP	Units: mg/L		Analysis Date: 06-May-2014 04:43	
Client ID:	Run ID: ICP7500_233110	SeqNo: 2823300		PrepDate: 28-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	53.21	0.500			51.51 3.25 25
Potassium	1.672	0.200			1.613 3.59 25
Sodium	43.06	0.200			41.2 4.41 25
PDS	Sample ID: HS14040638-01BS	Units: mg/L		Analysis Date: 06-May-2014 05:03	
Client ID:	Run ID: ICP7500_233110	SeqNo: 2823304		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	60.99	0.500	10	51.51 94.8	75 - 125 O
Potassium	11.4	0.200	10	1.613 97.9	75 - 125
Sodium	50.51	0.200	10	41.2 93.1	75 - 125 O
SD	Sample ID: HS14040638-01 DIL SX	Units: mg/L		Analysis Date: 06-May-2014 04:48	
Client ID:	Run ID: ICP7500_233110	SeqNo: 2823301		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Calcium	51.95	2.50			51.51 0.854 10
Potassium	1.357	1.00			1.613 15.9 10 R
Sodium	41.18	1.00			41.2 0.0485 10
The following samples were analyzed in this batch: HS14040667-05					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81307		Instrument: HG03		Method: SW7470	
MBLK	Sample ID: GBLKW1-042914	Units: mg/L		Analysis Date: 29-Apr-2014 13:18	
Client ID:	Run ID: HG03_232695	SeqNo: 2814353		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200			
LCS	Sample ID: GLCSW1-042914	Units: mg/L		Analysis Date: 29-Apr-2014 13:20	
Client ID:	Run ID: HG03_232695	SeqNo: 2814354		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00496	0.000200	0.005	0 99.2	80 - 120
MS	Sample ID: HS14040801-14MS	Units: mg/L		Analysis Date: 29-Apr-2014 13:25	
Client ID:	Run ID: HG03_232695	SeqNo: 2814357		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00427	0.000200	0.005	-0.000001 85.4	80 - 120
MSD	Sample ID: HS14040801-14MSD	Units: mg/L		Analysis Date: 29-Apr-2014 13:27	
Client ID:	Run ID: HG03_232695	SeqNo: 2814358		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00444	0.000200	0.005	-0.000001 88.8	80 - 120 0.00427 3.9 20
DUP	Sample ID: HS14040801-14DUP	Units: mg/L		Analysis Date: 29-Apr-2014 13:23	
Client ID:	Run ID: HG03_232695	SeqNo: 2814356		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200		-0.000001	0 20
The following samples were analyzed in this batch:					
HS14040667-04 HS14040667-15 HS14040667-21 HS14040667-23 HS14040667-27					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81311		Instrument: HG03		Method: SW7470	
MBLK	Sample ID: GBLKW2-042914	Units: mg/L		Analysis Date: 29-Apr-2014 14:32	
Client ID:	Run ID: HG03_232695	SeqNo: 2814398		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200			
LCS	Sample ID: GLCSW2-042914	Units: mg/L		Analysis Date: 29-Apr-2014 14:34	
Client ID:	Run ID: HG03_232695	SeqNo: 2814399		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00492	0.000200	0.005	0 98.4	80 - 124
MS	Sample ID: HS14040557-07MS	Units: mg/L		Analysis Date: 29-Apr-2014 14:39	
Client ID:	Run ID: HG03_232695	SeqNo: 2814402		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00481	0.000200	0.005	-0.000006 96.3	80 - 124
MSD	Sample ID: HS14040557-07MSD	Units: mg/L		Analysis Date: 29-Apr-2014 14:41	
Client ID:	Run ID: HG03_232695	SeqNo: 2814403		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00502	0.000200	0.005	-0.000006 101	80 - 124 0.00481 4.27 20
DUP	Sample ID: HS14040557-07DUP	Units: mg/L		Analysis Date: 29-Apr-2014 14:37	
Client ID:	Run ID: HG03_232695	SeqNo: 2814401		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200		-0.000006	0 20
The following samples were analyzed in this batch:					
HS14040667-03		HS14040667-14		HS14040667-20	
HS14040667-26		HS14040667-30		HS14040667-31	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232038		Instrument: VOA6		Method: SW8260					
MBLK	Sample ID: VBLKW-140417	Units: ug/L		Analysis Date: 17-Apr-2014 12:20					
Client ID:	Run ID: VOA6_232038	SeqNo: 2796382		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232038		Instrument: VOA6		Method: SW8260					
MBLK	Sample ID: VBLKW-140417	Units: ug/L		Analysis Date: 17-Apr-2014 12:20					
Client ID:	Run ID: VOA6_232038	SeqNo: 2796382		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	U	5.0							
n-Propylbenzene	U	5.0							
o-Xylene	U	5.0							
sec-Butylbenzene	U	5.0							
Styrene	U	5.0							
Tetrachloroethene	U	5.0							
Toluene	U	5.0							
trans-1,2-Dichloroethene	U	5.0							
trans-1,3-Dichloropropene	U	5.0							
Trichloroethene	U	5.0							
Vinyl chloride	U	2.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	44.1	5.0	50	0	88.2	70 - 125			
Surr: 4-Bromofluorobenzene	47.39	5.0	50	0	94.8	72 - 125			
Surr: Dibromofluoromethane	47.23	5.0	50	0	94.5	71 - 125			
Surr: Toluene-d8	48.01	5.0	50	0	96.0	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232038		Instrument: VOA6		Method: SW8260						
LCS	Sample ID: VLCSW-140417	Units: ug/L			Analysis Date: 17-Apr-2014 11:08					
Client ID:		Run ID: VOA6_232038		SeqNo: 2796381		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.65	5.0	50	0	103	80 - 120				
1,1,2,2-Tetrachloroethane	47.62	5.0	50	0	95.2	72 - 120				
1,1,2-Trichloroethane	47.51	5.0	50	0	95.0	80 - 120				
1,1-Dichloroethane	50.35	5.0	50	0	101	76 - 120				
1,1-Dichloroethene	50.53	5.0	50	0	101	73 - 124				
1,2,4-Trimethylbenzene	47.86	5.0	50	0	95.7	68 - 123				
1,2-Dibromoethane	47.62	5.0	50	0	95.2	80 - 120				
1,2-Dichloroethane	47.87	5.0	50	0	95.7	78 - 120				
1,2-Dichloropropane	50.3	5.0	50	0	101	80 - 120				
1,3,5-Trimethylbenzene	48.57	5.0	50	0	97.1	80 - 120				
2-Butanone	101	10	100	0	101	58 - 132				
2-Hexanone	94.99	10	100	0	95.0	61 - 130				
4-Isopropyltoluene	48.37	5.0	50	0	96.7	79 - 120				
4-Methyl-2-pentanone	98.6	10	100	0	98.6	65 - 127				
Acetone	110.1	10	100	0	110	59 - 137				
Benzene	48.22	5.0	50	0	96.4	73 - 121				
Bromodichloromethane	50.37	5.0	50	0	101	75 - 125				
Bromoform	51.64	5.0	50	0	103	70 - 130				
Bromomethane	44.07	5.0	50	0	88.1	60 - 145				
Carbon disulfide	101.6	10	100	0	102	68 - 141				
Carbon tetrachloride	49.67	5.0	50	0	99.3	75 - 125				
Chlorobenzene	47.23	5.0	50	0	94.5	80 - 120				
Chloroethane	49.35	5.0	50	0	98.7	70 - 130				
Chloroform	48.99	5.0	50	0	98.0	70 - 130				
Chloromethane	46.14	5.0	50	0	92.3	67 - 123				
cis-1,2-Dichloroethene	50.73	5.0	50	0	101	78 - 120				
cis-1,3-Dichloropropene	52.52	5.0	50	0	105	80 - 120				
Dibromochloromethane	50.41	5.0	50	0	101	80 - 120				
Ethylbenzene	48.4	5.0	50	0	96.8	80 - 120				
Isopropylbenzene	48.93	5.0	50	0	97.9	75 - 130				
m,p-Xylene	95.35	10	100	0	95.3	78 - 121				
Methyl tert-butyl ether	48.54	5.0	50	0	97.1	70 - 125				
Methylene chloride	50.32	10	50	0	101	65 - 133				
Naphthalene	47.04	5.0	50	0	94.1	65 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232038		Instrument: VOA6		Method: SW8260					
LCS		Sample ID: VLCSW-140417		Units: ug/L		Analysis Date: 17-Apr-2014 11:08			
Client ID:		Run ID: VOA6_232038		SeqNo: 2796381		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	49.34	5.0	50	0	98.7	77 - 120			
n-Propylbenzene	48.91	5.0	50	0	97.8	78 - 120			
o-Xylene	48.5	5.0	50	0	97.0	80 - 120			
sec-Butylbenzene	48.57	5.0	50	0	97.1	78 - 120			
Styrene	50.23	5.0	50	0	100	80 - 120			
Tetrachloroethene	48.47	5.0	50	0	96.9	79 - 120			
Toluene	47.47	5.0	50	0	94.9	80 - 120			
trans-1,2-Dichloroethene	48.96	5.0	50	0	97.9	78 - 120			
trans-1,3-Dichloropropene	53.45	5.0	50	0	107	80 - 120			
Trichloroethene	48.92	5.0	50	0	97.8	80 - 120			
Vinyl chloride	50.78	2.0	50	0	102	70 - 127			
Xylenes, Total	143.9	15	150	0	95.9	80 - 120			
Surr: 1,2-Dichloroethane-d4	49.95	5.0	50	0	99.9	70 - 125			
Surr: 4-Bromofluorobenzene	50.98	5.0	50	0	102	72 - 125			
Surr: Dibromofluoromethane	49.64	5.0	50	0	99.3	71 - 125			
Surr: Toluene-d8	49.91	5.0	50	0	99.8	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232038		Instrument: VOA6		Method: SW8260	
MS	Sample ID: HS14040681-07MS	Units: ug/L		Analysis Date: 17-Apr-2014 15:05	
Client ID:	Run ID: VOA6_232038	SeqNo: 2796722		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
1,1,1-Trichloroethane	48.65	5.0	50	0 97.3	80 - 120
1,1,2,2-Tetrachloroethane	46.99	5.0	50	0 94.0	72 - 120
1,1,2-Trichloroethane	48.13	5.0	50	0 96.3	80 - 120
1,1-Dichloroethane	48.44	5.0	50	0 96.9	76 - 120
1,1-Dichloroethene	47.38	5.0	50	0 94.8	73 - 124
1,2,4-Trimethylbenzene	45.81	5.0	50	0 91.6	68 - 123
1,2-Dibromoethane	48.04	5.0	50	0 96.1	80 - 120
1,2-Dichloroethane	48.36	5.0	50	0 96.7	78 - 120
1,2-Dichloropropane	48.23	5.0	50	0 96.5	80 - 120
1,3,5-Trimethylbenzene	46.26	5.0	50	0 92.5	80 - 120
2-Butanone	94.92	10	100	0 94.9	58 - 132
2-Hexanone	97.21	10	100	0 97.2	61 - 130
4-Isopropyltoluene	45.22	5.0	50	0 90.4	79 - 120
4-Methyl-2-pentanone	102.4	10	100	0 102	65 - 127
Acetone	97.41	10	100	0 97.4	59 - 137
Benzene	46.23	5.0	50	0 92.5	73 - 121
Bromodichloromethane	49.11	5.0	50	0 98.2	75 - 125
Bromoform	50.84	5.0	50	0 102	70 - 130
Bromomethane	43.44	5.0	50	0 86.9	60 - 145
Carbon disulfide	96.21	10	100	0 96.2	68 - 141
Carbon tetrachloride	46.24	5.0	50	0 92.5	75 - 125
Chlorobenzene	46.33	5.0	50	0 92.7	80 - 120
Chloroethane	47.8	5.0	50	0 95.6	70 - 130
Chloroform	48.12	5.0	50	0 96.2	70 - 130
Chloromethane	46.7	5.0	50	0 93.4	67 - 123
cis-1,2-Dichloroethene	49.5	5.0	50	0 99.0	78 - 120
cis-1,3-Dichloropropene	51.5	5.0	50	0 103	80 - 120
Dibromochloromethane	50.43	5.0	50	0 101	80 - 120
Ethylbenzene	47.01	5.0	50	0 94.0	80 - 120
Isopropylbenzene	46.75	5.0	50	0 93.5	75 - 130
m,p-Xylene	92.89	10	100	0 92.9	78 - 121
Methyl tert-butyl ether	51.38	5.0	50	0 103	70 - 125
Methylene chloride	51.06	10	50	0 102	65 - 133
Naphthalene	43.67	5.0	50	0 87.3	65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232038		Instrument: VOA6		Method: SW8260						
MS	Sample ID: HS14040681-07MS	Units: ug/L			Analysis Date: 17-Apr-2014 15:05					
Client ID:	Run ID: VOA6_232038	SeqNo: 2796722		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	44.78	5.0	50	0	89.6	77 - 120				
n-Propylbenzene	46.86	5.0	50	0	93.7	78 - 120				
o-Xylene	47.6	5.0	50	0	95.2	80 - 120				
sec-Butylbenzene	45.47	5.0	50	0	90.9	78 - 120				
Styrene	48.91	5.0	50	0	97.8	80 - 120				
Tetrachloroethene	45.95	5.0	50	0	91.9	79 - 120				
Toluene	46.02	5.0	50	0	92.0	80 - 120				
trans-1,2-Dichloroethene	47.69	5.0	50	0	95.4	78 - 120				
trans-1,3-Dichloropropene	52.05	5.0	50	0	104	80 - 120				
Trichloroethene	46.28	5.0	50	0	92.6	80 - 120				
Vinyl chloride	49.59	2.0	50	0	99.2	70 - 127				
Xylenes, Total	140.5	15	150	0	93.7	80 - 120				
Surr: 1,2-Dichloroethane-d4	50.6	5.0	50	0	101	70 - 125				
Surr: 4-Bromofluorobenzene	51.44	5.0	50	0	103	72 - 125				
Surr: Dibromofluoromethane	49.85	5.0	50	0	99.7	71 - 125				
Surr: Toluene-d8	50.09	5.0	50	0	100	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232038		Instrument: VOA6		Method: SW8260						
MSD		Sample ID: HS14040681-07MSD		Units: ug/L		Analysis Date: 17-Apr-2014 15:29				
Client ID:		Run ID: VOA6_232038		SeqNo: 2796723		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.23	5.0	50	0	102	80 - 120	48.65	5.16	20	
1,1,2,2-Tetrachloroethane	49.09	5.0	50	0	98.2	72 - 120	46.99	4.38	20	
1,1,2-Trichloroethane	48.76	5.0	50	0	97.5	80 - 120	48.13	1.31	20	
1,1-Dichloroethane	49.98	5.0	50	0	100.0	76 - 120	48.44	3.11	20	
1,1-Dichloroethene	49.39	5.0	50	0	98.8	73 - 124	47.38	4.15	20	
1,2,4-Trimethylbenzene	49.47	5.0	50	0	98.9	68 - 123	45.81	7.68	20	
1,2-Dibromoethane	48.53	5.0	50	0	97.1	80 - 120	48.04	1.03	20	
1,2-Dichloroethane	46.36	5.0	50	0	92.7	78 - 120	48.36	4.21	20	
1,2-Dichloropropane	49.52	5.0	50	0	99.0	80 - 120	48.23	2.63	20	
1,3,5-Trimethylbenzene	50.12	5.0	50	0	100	80 - 120	46.26	8.01	20	
2-Butanone	99.9	10	100	0	99.9	58 - 132	94.92	5.12	20	
2-Hexanone	98.33	10	100	0	98.3	61 - 130	97.21	1.15	20	
4-Isopropyltoluene	49.67	5.0	50	0	99.3	79 - 120	45.22	9.38	20	
4-Methyl-2-pentanone	103.6	10	100	0	104	65 - 127	102.4	1.16	20	
Acetone	101.6	10	100	0	102	59 - 137	97.41	4.21	20	
Benzene	47.73	5.0	50	0	95.5	73 - 121	46.23	3.19	20	
Bromodichloromethane	50.05	5.0	50	0	100	75 - 125	49.11	1.89	20	
Bromoform	52.48	5.0	50	0	105	70 - 130	50.84	3.17	20	
Bromomethane	42.98	5.0	50	0	86.0	60 - 145	43.44	1.07	20	
Carbon disulfide	102	10	100	0	102	68 - 141	96.21	5.85	20	
Carbon tetrachloride	49.66	5.0	50	0	99.3	75 - 125	46.24	7.15	20	
Chlorobenzene	47.58	5.0	50	0	95.2	80 - 120	46.33	2.65	20	
Chloroethane	49.85	5.0	50	0	99.7	76 - 121	47.8	4.19	20	
Chloroform	49.32	5.0	50	0	98.6	70 - 130	48.12	2.46	20	
Chloromethane	49.13	5.0	50	0	98.3	67 - 123	46.7	5.07	20	
cis-1,2-Dichloroethene	50.34	5.0	50	0	101	78 - 120	49.5	1.68	20	
cis-1,3-Dichloropropene	51.56	5.0	50	0	103	80 - 120	51.5	0.129	20	
Dibromochloromethane	51.15	5.0	50	0	102	80 - 120	50.43	1.42	20	
Ethylbenzene	49.44	5.0	50	0	98.9	80 - 120	47.01	5.04	20	
Isopropylbenzene	50.49	5.0	50	0	101	75 - 130	46.75	7.7	20	
m,p-Xylene	98.54	10	100	0	98.5	78 - 121	92.89	5.9	20	
Methyl tert-butyl ether	50.74	5.0	50	0	101	70 - 125	51.38	1.25	20	
Methylene chloride	52.43	10	50	0	105	65 - 133	51.06	2.65	20	
Naphthalene	48.55	5.0	50	0	97.1	65 - 135	43.67	10.6	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232038		Instrument: VOA6		Method: SW8260						
MSD	Sample ID: HS14040681-07MSD	Units: ug/L		Analysis Date: 17-Apr-2014 15:29						
Client ID:	Run ID: VOA6_232038	SeqNo: 2796723		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	49.09	5.0	50	0	98.2	77 - 120	44.78	9.19	20	
n-Propylbenzene	50.9	5.0	50	0	102	78 - 120	46.86	8.26	20	
o-Xylene	49.87	5.0	50	0	99.7	80 - 120	47.6	4.66	20	
sec-Butylbenzene	49.37	5.0	50	0	98.7	78 - 120	45.47	8.21	20	
Styrene	50.64	5.0	50	0	101	80 - 120	48.91	3.47	20	
Tetrachloroethene	48.92	5.0	50	0	97.8	79 - 120	45.95	6.26	20	
Toluene	48.14	5.0	50	0	96.3	80 - 120	46.02	4.49	20	
trans-1,2-Dichloroethene	49.1	5.0	50	0	98.2	78 - 120	47.69	2.89	20	
trans-1,3-Dichloropropene	53.11	5.0	50	0	106	80 - 120	52.05	2.02	20	
Trichloroethene	48.4	5.0	50	0	96.8	80 - 120	46.28	4.48	20	
Vinyl chloride	52.04	2.0	50	0	104	70 - 127	49.59	4.82	20	
Xylenes, Total	148.4	15	150	0	98.9	78 - 121	140.5	5.48	20	
Surr: 1,2-Dichloroethane-d4	50.34	5.0	50	0	101	70 - 125	50.6	0.515	20	
Surr: 4-Bromofluorobenzene	51.25	5.0	50	0	102	72 - 125	51.44	0.363	20	
Surr: Dibromofluoromethane	50	5.0	50	0	100.0	71 - 125	49.85	0.301	20	
Surr: Toluene-d8	50.21	5.0	50	0	100	75 - 125	50.09	0.231	20	
The following samples were analyzed in this batch: HS14040667-01 HS14040667-16										

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232142		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140418	Units: ug/L		Analysis Date: 18-Apr-2014 12:38					
Client ID:	Run ID: VOA1_232142		SeqNo: 2798928		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232142		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140418	Units: ug/L		Analysis Date: 18-Apr-2014 12:38					
Client ID:	Run ID: VOA1_232142	SeqNo: 2798928		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	U	5.0							
n-Propylbenzene	U	5.0							
o-Xylene	U	5.0							
sec-Butylbenzene	U	5.0							
Styrene	U	5.0							
Tetrachloroethene	U	5.0							
Toluene	U	5.0							
trans-1,2-Dichloroethene	U	5.0							
trans-1,3-Dichloropropene	U	5.0							
Trichloroethene	U	5.0							
Vinyl chloride	U	2.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	52.03	5.0	50	0	104	70 - 125			
Surr: 4-Bromofluorobenzene	50.22	5.0	50	0	100	72 - 125			
Surr: Dibromofluoromethane	50.63	5.0	50	0	101	71 - 125			
Surr: Toluene-d8	48.5	5.0	50	0	97.0	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232142		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140418		Units: ug/L	
Client ID:		Run ID: VOA1_232142		SeqNo: 2798927	
Analyte		Result		Analysis Date: 18-Apr-2014 11:22	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
1,1,1-Trichloroethane		47.96	5.0	50	0 95.9 80 - 120
1,1,2,2-Tetrachloroethane		47.4	5.0	50	0 94.8 72 - 120
1,1,2-Trichloroethane		45.39	5.0	50	0 90.8 80 - 120
1,1-Dichloroethane		44.83	5.0	50	0 89.7 76 - 120
1,1-Dichloroethene		44.49	5.0	50	0 89.0 73 - 124
1,2,4-Trimethylbenzene		52.46	5.0	50	0 105 68 - 123
1,2-Dibromoethane		47.18	5.0	50	0 94.4 80 - 120
1,2-Dichloroethane		46.54	5.0	50	0 93.1 78 - 120
1,2-Dichloropropane		48.04	5.0	50	0 96.1 80 - 120
1,3,5-Trimethylbenzene		52.82	5.0	50	0 106 80 - 120
2-Butanone		100	10	100	0 100.0 58 - 132
2-Hexanone		106.8	10	100	0 107 61 - 130
4-Isopropyltoluene		49.03	5.0	50	0 98.1 79 - 120
4-Methyl-2-pentanone		106.4	10	100	0 106 65 - 127
Acetone		94.65	10	100	0 94.6 59 - 137
Benzene		48.59	5.0	50	0 97.2 73 - 121
Bromodichloromethane		48.74	5.0	50	0 97.5 75 - 125
Bromoform		49.38	5.0	50	0 98.8 70 - 130
Bromomethane		47.47	5.0	50	0 94.9 60 - 145
Carbon disulfide		95.52	10	100	0 95.5 68 - 141
Carbon tetrachloride		47.68	5.0	50	0 95.4 75 - 125
Chlorobenzene		44.7	5.0	50	0 89.4 80 - 120
Chloroethane		48.8	5.0	50	0 97.6 70 - 130
Chloroform		46.64	5.0	50	0 93.3 70 - 130
Chloromethane		44.06	5.0	50	0 88.1 67 - 123
cis-1,2-Dichloroethene		47.43	5.0	50	0 94.9 78 - 120
cis-1,3-Dichloropropene		57.16	5.0	50	0 114 80 - 120
Dibromochloromethane		48.39	5.0	50	0 96.8 80 - 120
Ethylbenzene		49.07	5.0	50	0 98.1 80 - 120
Isopropylbenzene		47.89	5.0	50	0 95.8 75 - 130
m,p-Xylene		96.96	10	100	0 97.0 78 - 121
Methyl tert-butyl ether		55.01	5.0	50	0 110 70 - 125
Methylene chloride		52.93	10	50	0 106 65 - 133
Naphthalene		53.4	5.0	50	0 107 65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232142		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140418		Units: ug/L	
Client ID:		Run ID: VOA1_232142		SeqNo: 2798927	
Analyte		Result		Analysis Date: 18-Apr-2014 11:22	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
n-Butylbenzene		49.83		50 0 99.7 77 - 120	
n-Propylbenzene		51.32		50 0 103 78 - 120	
o-Xylene		51.3		50 0 103 80 - 120	
sec-Butylbenzene		53.54		50 0 107 78 - 120	
Styrene		52.1		50 0 104 80 - 120	
Tetrachloroethene		45		50 0 90.0 79 - 120	
Toluene		47.56		50 0 95.1 80 - 120	
trans-1,2-Dichloroethene		46.54		50 0 93.1 78 - 120	
trans-1,3-Dichloropropene		58.03		50 0 116 80 - 120	
Trichloroethene		49.92		50 0 99.8 80 - 120	
Vinyl chloride		45.23		50 0 90.5 70 - 127	
Xylenes, Total		148.3		15 0 98.8 80 - 120	
Surr: 1,2-Dichloroethane-d4		48.65		50 0 97.3 70 - 125	
Surr: 4-Bromofluorobenzene		48.56		50 0 97.1 72 - 125	
Surr: Dibromofluoromethane		48.77		50 0 97.5 71 - 125	
Surr: Toluene-d8		49.56		50 0 99.1 75 - 125	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232142		Instrument: VOA1		Method: SW8260						
MS		Sample ID: HS14040762-01MS		Units: ug/L		Analysis Date: 18-Apr-2014 15:09				
Client ID:		Run ID: VOA1_232142		SeqNo: 2799143		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	4253	500	5000	0	85.1	80 - 120				
1,1,2,2-Tetrachloroethane	4783	500	5000	0	95.7	72 - 120				
1,1,2-Trichloroethane	4992	500	5000	0	99.8	80 - 120				
1,1-Dichloroethane	4378	500	5000	0	87.6	76 - 120				
1,1-Dichloroethene	4270	500	5000	0	85.4	73 - 124				
1,2,4-Trimethylbenzene	4494	500	5000	0	89.9	68 - 123				
1,2-Dibromoethane	4888	500	5000	0	97.8	80 - 120				
1,2-Dichloroethane	4931	500	5000	0	98.6	78 - 120				
1,2-Dichloropropane	4989	500	5000	0	99.8	80 - 120				
1,3,5-Trimethylbenzene	3799	500	5000	0	76.0	80 - 120				S
2-Butanone	10740	1000	10000	0	107	58 - 132				
2-Hexanone	11200	1000	10000	0	112	61 - 130				
4-Isopropyltoluene	4311	500	5000	0	86.2	79 - 120				
4-Methyl-2-pentanone	11020	1000	10000	0	110	65 - 127				
Acetone	10810	1000	10000	0	108	59 - 137				
Benzene	4753	500	5000	0	95.1	73 - 121				
Bromodichloromethane	5264	500	5000	0	105	75 - 125				
Bromoform	5314	500	5000	0	106	70 - 130				
Bromomethane	4348	500	5000	0	87.0	60 - 145				
Carbon disulfide	8456	1000	10000	0	84.6	68 - 141				
Carbon tetrachloride	4498	500	5000	0	90.0	75 - 125				
Chlorobenzene	4922	500	5000	0	98.4	80 - 120				
Chloroethane	4682	500	5000	0	93.6	70 - 130				
Chloroform	8130	500	5000	3824	86.1	70 - 130				
Chloromethane	4006	500	5000	0	80.1	67 - 123				
cis-1,2-Dichloroethene	4725	500	5000	0	94.5	78 - 120				
cis-1,3-Dichloropropene	5561	500	5000	0	111	80 - 120				
Dibromochloromethane	5278	500	5000	0	106	80 - 120				
Ethylbenzene	4829	500	5000	0	96.6	80 - 120				
Isopropylbenzene	4680	500	5000	0	93.6	75 - 130				
m,p-Xylene	9607	1000	10000	0	96.1	78 - 121				
Methyl tert-butyl ether	3051	500	5000	0	61.0	70 - 125				S
Methylene chloride	5183	1000	5000	0	104	65 - 133				
Naphthalene	4981	500	5000	0	99.6	65 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232142		Instrument: VOA1		Method: SW8260	
MS	Sample ID: HS14040762-01MS	Units: ug/L		Analysis Date: 18-Apr-2014 15:09	
Client ID:	Run ID: VOA1_232142	SeqNo: 2799143		PrepDate:	DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
n-Butylbenzene	4444	500	5000	0 88.9	77 - 120
n-Propylbenzene	4374	500	5000	0 87.5	78 - 120
o-Xylene	5047	500	5000	0 101	80 - 120
sec-Butylbenzene	4512	500	5000	0 90.2	78 - 120
Styrene	756.4	500	5000	0 15.1	80 - 120 S
Tetrachloroethene	4274	500	5000	0 85.5	79 - 120
Toluene	4394	500	5000	0 87.9	80 - 120
trans-1,2-Dichloroethene	4536	500	5000	0 90.7	78 - 120
trans-1,3-Dichloropropene	5992	500	5000	0 120	80 - 120
Trichloroethene	4954	500	5000	0 99.1	80 - 120
Vinyl chloride	3943	200	5000	0 78.9	70 - 127
Xylenes, Total	14650	1500	15000	0 97.7	80 - 120
Surr: 1,2-Dichloroethane-d4	4828	500	5000	0 96.6	70 - 125
Surr: 4-Bromofluorobenzene	5016	500	5000	0 100	72 - 125
Surr: Dibromofluoromethane	5016	500	5000	0 100	71 - 125
Surr: Toluene-d8	5061	500	5000	0 101	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232142		Instrument: VOA1		Method: SW8260						
MSD		Sample ID: HS14040762-01MSD		Units: ug/L		Analysis Date: 18-Apr-2014 15:34				
Client ID:		Run ID: VOA1_232142		SeqNo: 2799144		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	4679	500	5000	0	93.6	80 - 120	4253	9.55	20	
1,1,2,2-Tetrachloroethane	4638	500	5000	0	92.8	72 - 120	4783	3.09	20	
1,1,2-Trichloroethane	4736	500	5000	0	94.7	80 - 120	4992	5.27	20	
1,1-Dichloroethane	4486	500	5000	0	89.7	76 - 120	4378	2.46	20	
1,1-Dichloroethene	4679	500	5000	0	93.6	73 - 124	4270	9.14	20	
1,2,4-Trimethylbenzene	4773	500	5000	0	95.5	68 - 123	4494	6.02	20	
1,2-Dibromoethane	4887	500	5000	0	97.7	80 - 120	4888	0.025	20	
1,2-Dichloroethane	4630	500	5000	0	92.6	78 - 120	4931	6.29	20	
1,2-Dichloropropane	4643	500	5000	0	92.9	80 - 120	4989	7.19	20	
1,3,5-Trimethylbenzene	4625	500	5000	0	92.5	80 - 120	3799	19.6	20	
2-Butanone	10820	1000	10000	0	108	58 - 132	10740	0.663	20	
2-Hexanone	11150	1000	10000	0	111	61 - 130	11200	0.475	20	
4-Isopropyltoluene	4606	500	5000	0	92.1	79 - 120	4311	6.6	20	
4-Methyl-2-pentanone	11100	1000	10000	0	111	65 - 127	11020	0.746	20	
Acetone	10980	1000	10000	0	110	59 - 137	10810	1.59	20	
Benzene	4720	500	5000	0	94.4	73 - 121	4753	0.69	20	
Bromodichloromethane	4920	500	5000	0	98.4	75 - 125	5264	6.75	20	
Bromoform	5302	500	5000	0	106	70 - 130	5314	0.227	20	
Bromomethane	5183	500	5000	0	104	60 - 145	4348	17.5	20	
Carbon disulfide	9371	1000	10000	0	93.7	68 - 141	8456	10.3	20	
Carbon tetrachloride	4522	500	5000	0	90.4	75 - 125	4498	0.524	20	
Chlorobenzene	4619	500	5000	0	92.4	80 - 120	4922	6.35	20	
Chloroethane	4946	500	5000	0	98.9	76 - 121	4682	5.48	20	
Chloroform	8375	500	5000	3824	91.0	70 - 130	8130	2.97	20	
Chloromethane	4401	500	5000	0	88.0	67 - 123	4006	9.42	20	
cis-1,2-Dichloroethene	4880	500	5000	0	97.6	78 - 120	4725	3.23	20	
cis-1,3-Dichloropropene	5639	500	5000	0	113	80 - 120	5561	1.39	20	
Dibromochloromethane	5058	500	5000	0	101	80 - 120	5278	4.26	20	
Ethylbenzene	4868	500	5000	0	97.4	80 - 120	4829	0.798	20	
Isopropylbenzene	4896	500	5000	0	97.9	75 - 130	4680	4.51	20	
m,p-Xylene	9740	1000	10000	0	97.4	78 - 121	9607	1.37	20	
Methyl tert-butyl ether	3254	500	5000	0	65.1	70 - 125	3051	6.42	20	S
Methylene chloride	5301	1000	5000	0	106	65 - 133	5183	2.25	20	
Naphthalene	5356	500	5000	0	107	65 - 135	4981	7.26	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232142		Instrument: VOA1		Method: SW8260						
MSD		Sample ID: HS14040762-01MSD		Units: ug/L		Analysis Date: 18-Apr-2014 15:34				
Client ID:		Run ID: VOA1_232142		SeqNo: 2799144		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	4544	500	5000	0	90.9	77 - 120	4444	2.23	20	
n-Propylbenzene	4564	500	5000	0	91.3	78 - 120	4374	4.25	20	
o-Xylene	5080	500	5000	0	102	80 - 120	5047	0.649	20	
sec-Butylbenzene	4867	500	5000	0	97.3	78 - 120	4512	7.56	20	
Styrene	1964	500	5000	0	39.3	80 - 120	756.4	88.8	20	SR
Tetrachloroethene	4412	500	5000	0	88.2	79 - 120	4274	3.19	20	
Toluene	4708	500	5000	0	94.2	80 - 120	4394	6.88	20	
trans-1,2-Dichloroethene	4749	500	5000	0	95.0	78 - 120	4536	4.59	20	
trans-1,3-Dichloropropene	5628	500	5000	0	113	80 - 120	5992	6.28	20	
Trichloroethene	4820	500	5000	0	96.4	80 - 120	4954	2.74	20	
Vinyl chloride	4441	200	5000	0	88.8	70 - 127	3943	11.9	20	
Xylenes, Total	14820	1500	15000	0	98.8	78 - 121	14650	1.12	20	
Surr: 1,2-Dichloroethane-d4	4973	500	5000	0	99.5	70 - 125	4828	2.97	20	
Surr: 4-Bromofluorobenzene	5108	500	5000	0	102	72 - 125	5016	1.81	20	
Surr: Dibromofluoromethane	5206	500	5000	0	104	71 - 125	5016	3.72	20	
Surr: Toluene-d8	4726	500	5000	0	94.5	75 - 125	5061	6.86	20	

The following samples were analyzed in this batch:

HS14040667-03	HS14040667-05	HS14040667-06	HS14040667-20
HS14040667-22	HS14040667-24	HS14040667-26	HS14040667-28
HS14040667-30	HS14040667-32	HS14040667-34	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260					
MBLK	Sample ID: VBLKW-140418	Units: ug/L		Analysis Date: 18-Apr-2014 12:30					
Client ID:	Run ID: VOA6_232152	SeqNo: 2799110		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260					
MBLK	Sample ID: VBLKW-140418	Units: ug/L		Analysis Date: 18-Apr-2014 12:30					
Client ID:	Run ID: VOA6_232152	SeqNo: 2799110		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	U	5.0							
n-Propylbenzene	U	5.0							
o-Xylene	U	5.0							
sec-Butylbenzene	U	5.0							
Styrene	U	5.0							
Tetrachloroethene	U	5.0							
Toluene	U	5.0							
trans-1,2-Dichloroethene	U	5.0							
trans-1,3-Dichloropropene	U	5.0							
Trichloroethene	U	5.0							
Vinyl chloride	U	2.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	50.45	5.0	50	0	101	70 - 125			
Surr: 4-Bromofluorobenzene	50.24	5.0	50	0	100	72 - 125			
Surr: Dibromofluoromethane	49.33	5.0	50	0	98.7	71 - 125			
Surr: Toluene-d8	46.12	5.0	50	0	92.2	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260	
LCS		Sample ID: VLCSW-140418	Units: ug/L	Analysis Date: 18-Apr-2014 14:28	
Client ID:		Run ID: VOA6_232152	SeqNo: 2799114	PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
1,1,1-Trichloroethane	51.01	5.0	50	0 102	80 - 120
1,1,2,2-Tetrachloroethane	47.63	5.0	50	0 95.3	72 - 120
1,1,2-Trichloroethane	48.31	5.0	50	0 96.6	80 - 120
1,1-Dichloroethane	51.85	5.0	50	0 104	76 - 120
1,1-Dichloroethene	54.01	5.0	50	0 108	73 - 124
1,2,4-Trimethylbenzene	48.78	5.0	50	0 97.6	68 - 123
1,2-Dibromoethane	48.52	5.0	50	0 97.0	80 - 120
1,2-Dichloroethane	46.65	5.0	50	0 93.3	78 - 120
1,2-Dichloropropane	49.73	5.0	50	0 99.5	80 - 120
1,3,5-Trimethylbenzene	49.05	5.0	50	0 98.1	80 - 120
2-Butanone	101.4	10	100	0 101	58 - 132
2-Hexanone	95.75	10	100	0 95.7	61 - 130
4-Isopropyltoluene	48.81	5.0	50	0 97.6	79 - 120
4-Methyl-2-pentanone	101.2	10	100	0 101	65 - 127
Acetone	112.6	10	100	0 113	59 - 137
Benzene	49.14	5.0	50	0 98.3	73 - 121
Bromodichloromethane	50.08	5.0	50	0 100	75 - 125
Bromoform	51.72	5.0	50	0 103	70 - 130
Bromomethane	41.34	5.0	50	0 82.7	60 - 145
Carbon disulfide	105.7	10	100	0 106	68 - 141
Carbon tetrachloride	49.82	5.0	50	0 99.6	75 - 125
Chlorobenzene	48.69	5.0	50	0 97.4	80 - 120
Chloroethane	48.3	5.0	50	0 96.6	70 - 130
Chloroform	49.25	5.0	50	0 98.5	70 - 130
Chloromethane	48.11	5.0	50	0 96.2	67 - 123
cis-1,2-Dichloroethene	54.57	5.0	50	0 109	78 - 120
cis-1,3-Dichloropropene	52.07	5.0	50	0 104	80 - 120
Dibromochloromethane	50.59	5.0	50	0 101	80 - 120
Ethylbenzene	50.28	5.0	50	0 101	80 - 120
Isopropylbenzene	50.14	5.0	50	0 100	75 - 130
m,p-Xylene	99.69	10	100	0 99.7	78 - 121
Methyl tert-butyl ether	51.56	5.0	50	0 103	70 - 125
Methylene chloride	54.62	10	50	0 109	65 - 133
Naphthalene	48.83	5.0	50	0 97.7	65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260	
LCS		Sample ID: VLCSW-140418		Units: ug/L	
Client ID:		Run ID: VOA6_232152		SeqNo: 2799114	
Analyte		Result		Analysis Date: 18-Apr-2014 14:28	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
n-Butylbenzene		49.14		50 0 98.3 77 - 120	
n-Propylbenzene		50.05		50 0 100 78 - 120	
o-Xylene		49.8		50 0 99.6 80 - 120	
sec-Butylbenzene		48.72		50 0 97.4 78 - 120	
Styrene		51.71		50 0 103 80 - 120	
Tetrachloroethene		49.74		50 0 99.5 79 - 120	
Toluene		48.52		50 0 97.0 80 - 120	
trans-1,2-Dichloroethene		53.26		50 0 107 78 - 120	
trans-1,3-Dichloropropene		52.32		50 0 105 80 - 120	
Trichloroethene		49.79		50 0 99.6 80 - 120	
Vinyl chloride		50.19		50 0 100 70 - 127	
Xylenes, Total		149.5		150 0 99.7 80 - 120	
Surr: 1,2-Dichloroethane-d4		48.84		50 0 97.7 70 - 125	
Surr: 4-Bromofluorobenzene		51.23		50 0 102 72 - 125	
Surr: Dibromofluoromethane		49.58		50 0 99.2 71 - 125	
Surr: Toluene-d8		50.31		50 0 101 75 - 125	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260	
MS	Sample ID: HS14040557-29MS	Units: ug/L		Analysis Date: 18-Apr-2014 13:40	
Client ID:	Run ID: VOA6_232152	SeqNo: 2799112		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
1,1,1-Trichloroethane	48.6	5.0	50	0 97.2	80 - 120
1,1,2,2-Tetrachloroethane	50.47	5.0	50	0 101	72 - 120
1,1,2-Trichloroethane	48.97	5.0	50	0 97.9	80 - 120
1,1-Dichloroethane	49.94	5.0	50	0 99.9	76 - 120
1,1-Dichloroethene	46.99	5.0	50	0 94.0	73 - 124
1,2,4-Trimethylbenzene	46.59	5.0	50	0 93.2	68 - 123
1,2-Dibromoethane	49.06	5.0	50	0 98.1	80 - 120
1,2-Dichloroethane	47.68	5.0	50	0 95.4	78 - 120
1,2-Dichloropropane	49.68	5.0	50	0 99.4	80 - 120
1,3,5-Trimethylbenzene	46.69	5.0	50	0 93.4	80 - 120
2-Butanone	105	10	100	0 105	58 - 132
2-Hexanone	104.4	10	100	0 104	61 - 130
4-Isopropyltoluene	44.26	5.0	50	0 88.5	79 - 120
4-Methyl-2-pentanone	108.5	10	100	0 109	65 - 127
Acetone	109.1	10	100	0 109	59 - 137
Benzene	48.7	5.0	50	0 97.4	73 - 121
Bromodichloromethane	49.8	5.0	50	0 99.6	75 - 125
Bromoform	52.71	5.0	50	0 105	70 - 130
Bromomethane	48.27	5.0	50	0 96.5	60 - 145
Carbon disulfide	100.1	10	100	0 100	68 - 141
Carbon tetrachloride	45.61	5.0	50	0 91.2	75 - 125
Chlorobenzene	47.26	5.0	50	0 94.5	80 - 120
Chloroethane	49.55	5.0	50	0 99.1	70 - 130
Chloroform	49.23	5.0	50	0 98.5	70 - 130
Chloromethane	49.56	5.0	50	0 99.1	67 - 123
cis-1,2-Dichloroethene	50.16	5.0	50	0 100	78 - 120
cis-1,3-Dichloropropene	51.83	5.0	50	0 104	80 - 120
Dibromochloromethane	50.39	5.0	50	0 101	80 - 120
Ethylbenzene	47.78	5.0	50	0 95.6	80 - 120
Isopropylbenzene	46.63	5.0	50	0 93.3	75 - 130
m,p-Xylene	95.47	10	100	0 95.5	78 - 121
Methyl tert-butyl ether	38.96	5.0	50	0 77.9	70 - 125
Methylene chloride	52.03	10	50	0 104	65 - 133
Naphthalene	48.72	5.0	50	0 97.4	65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260	
MS	Sample ID: HS14040557-29MS	Units: ug/L		Analysis Date: 18-Apr-2014 13:40	
Client ID:	Run ID: VOA6_232152	SeqNo: 2799112		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
n-Butylbenzene	44.22	5.0	50	0 88.4	77 - 120
n-Propylbenzene	46.97	5.0	50	0 93.9	78 - 120
o-Xylene	48.6	5.0	50	0 97.2	80 - 120
sec-Butylbenzene	43.96	5.0	50	0 87.9	78 - 120
Styrene	49.38	5.0	50	0 98.8	80 - 120
Tetrachloroethene	46.57	5.0	50	0 93.1	79 - 120
Toluene	48.99	5.0	50	0 98.0	80 - 120
trans-1,2-Dichloroethene	49.08	5.0	50	0 98.2	78 - 120
trans-1,3-Dichloropropene	52.86	5.0	50	0 106	80 - 120
Trichloroethene	47.65	5.0	50	0 95.3	80 - 120
Vinyl chloride	52.03	2.0	50	0 104	70 - 127
Xylenes, Total	144.1	15	150	0 96.0	80 - 120
Surr: 1,2-Dichloroethane-d4	50.11	5.0	50	0 100	70 - 125
Surr: 4-Bromofluorobenzene	50.16	5.0	50	0 100	72 - 125
Surr: Dibromofluoromethane	50.26	5.0	50	0 101	71 - 125
Surr: Toluene-d8	50.06	5.0	50	0 100	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260					
MSD		Sample ID: HS14040557-29MSD		Units: ug/L		Analysis Date: 18-Apr-2014 14:04			
Client ID:		Run ID: VOA6_232152		SeqNo: 2799113		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	50.16	5.0	50	0	100	80 - 120	48.6	3.16	20
1,1,2,2-Tetrachloroethane	53.06	5.0	50	0	106	72 - 120	50.47	5.01	20
1,1,2-Trichloroethane	51.88	5.0	50	0	104	80 - 120	48.97	5.77	20
1,1-Dichloroethane	50.99	5.0	50	0	102	76 - 120	49.94	2.08	20
1,1-Dichloroethene	48.69	5.0	50	0	97.4	73 - 124	46.99	3.56	20
1,2,4-Trimethylbenzene	48.1	5.0	50	0	96.2	68 - 123	46.59	3.2	20
1,2-Dibromoethane	52.36	5.0	50	0	105	80 - 120	49.06	6.52	20
1,2-Dichloroethane	49.59	5.0	50	0	99.2	78 - 120	47.68	3.93	20
1,2-Dichloropropane	51.89	5.0	50	0	104	80 - 120	49.68	4.36	20
1,3,5-Trimethylbenzene	48.18	5.0	50	0	96.4	80 - 120	46.69	3.15	20
2-Butanone	113.5	10	100	0	114	58 - 132	105	7.74	20
2-Hexanone	116.1	10	100	0	116	61 - 130	104.4	10.6	20
4-Isopropyltoluene	45.47	5.0	50	0	90.9	79 - 120	44.26	2.69	20
4-Methyl-2-pentanone	119.6	10	100	0	120	65 - 127	108.5	9.72	20
Acetone	116.8	10	100	0	117	59 - 137	109.1	6.83	20
Benzene	49.82	5.0	50	0	99.6	73 - 121	48.7	2.26	20
Bromodichloromethane	52.07	5.0	50	0	104	75 - 125	49.8	4.46	20
Bromoform	55.71	5.0	50	0	111	70 - 130	52.71	5.53	20
Bromomethane	47.96	5.0	50	0	95.9	60 - 145	48.27	0.654	20
Carbon disulfide	102.8	10	100	0	103	68 - 141	100.1	2.65	20
Carbon tetrachloride	45.18	5.0	50	0	90.4	75 - 125	45.61	0.96	20
Chlorobenzene	49.9	5.0	50	0	99.8	80 - 120	47.26	5.43	20
Chloroethane	52.24	5.0	50	0	104	76 - 121	49.55	5.29	20
Chloroform	52.04	5.0	50	0	104	70 - 130	49.23	5.55	20
Chloromethane	51.43	5.0	50	0	103	67 - 123	49.56	3.7	20
cis-1,2-Dichloroethene	53.56	5.0	50	0	107	78 - 120	50.16	6.56	20
cis-1,3-Dichloropropene	54.91	5.0	50	0	110	80 - 120	51.83	5.77	20
Dibromochloromethane	54.5	5.0	50	0	109	80 - 120	50.39	7.84	20
Ethylbenzene	50.33	5.0	50	0	101	80 - 120	47.78	5.2	20
Isopropylbenzene	49.13	5.0	50	0	98.3	75 - 130	46.63	5.23	20
m,p-Xylene	100.2	10	100	0	100	78 - 121	95.47	4.83	20
Methyl tert-butyl ether	53.72	5.0	50	0	107	70 - 125	38.96	31.8	20 R
Methylene chloride	54.96	10	50	0	110	65 - 133	52.03	5.48	20
Naphthalene	52.2	5.0	50	0	104	65 - 135	48.72	6.9	20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232152		Instrument: VOA6		Method: SW8260						
MSD		Sample ID: HS14040557-29MSD		Units: ug/L		Analysis Date: 18-Apr-2014 14:04				
Client ID:		Run ID: VOA6_232152		SeqNo: 2799113		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	44.69	5.0	50	0	89.4	77 - 120	44.22	1.05	20	
n-Propylbenzene	46.59	5.0	50	0	93.2	78 - 120	46.97	0.798	20	
o-Xylene	51.02	5.0	50	0	102	80 - 120	48.6	4.85	20	
sec-Butylbenzene	44.82	5.0	50	0	89.6	78 - 120	43.96	1.92	20	
Styrene	52.21	5.0	50	0	104	80 - 120	49.38	5.58	20	
Tetrachloroethene	48.39	5.0	50	0	96.8	79 - 120	46.57	3.83	20	
Toluene	50.03	5.0	50	0	100	80 - 120	48.99	2.1	20	
trans-1,2-Dichloroethene	50.6	5.0	50	0	101	78 - 120	49.08	3.05	20	
trans-1,3-Dichloropropene	55.62	5.0	50	0	111	80 - 120	52.86	5.09	20	
Trichloroethene	49.89	5.0	50	0	99.8	80 - 120	47.65	4.58	20	
Vinyl chloride	51.5	2.0	50	0	103	70 - 127	52.03	1.02	20	
Xylenes, Total	151.2	15	150	0	101	78 - 121	144.1	4.83	20	
Surr: 1,2-Dichloroethane-d4	50.04	5.0	50	0	100	70 - 125	50.11	0.143	20	
Surr: 4-Bromofluorobenzene	50.98	5.0	50	0	102	72 - 125	50.16	1.63	20	
Surr: Dibromofluoromethane	50.43	5.0	50	0	101	71 - 125	50.26	0.328	20	
Surr: Toluene-d8	50.35	5.0	50	0	101	75 - 125	50.06	0.57	20	

The following samples were analyzed in this batch:

HS14040667-08	HS14040667-10	HS14040667-12	HS14040667-14
HS14040667-18			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260					
MBLK	Sample ID: VBLKW-140421	Units: ug/L		Analysis Date: 21-Apr-2014 12:26					
Client ID:	Run ID: VOA6_232323	SeqNo: 2803321		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
m,p-Xylene	U	10							
o-Xylene	U	5.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	50.05	5.0	50	0	100	70 - 125			
Surr: 4-Bromofluorobenzene	49.32	5.0	50	0	98.6	72 - 125			
Surr: Dibromofluoromethane	49.82	5.0	50	0	99.6	71 - 125			
Surr: Toluene-d8	48.91	5.0	50	0	97.8	75 - 125			

LCS	Sample ID: VLCSW-140421	Units: ug/L		Analysis Date: 21-Apr-2014 11:16					
Client ID:	Run ID: VOA6_232323	SeqNo: 2803320		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	47.58	5.0	50	0	95.2	73 - 121			
Ethylbenzene	49.2	5.0	50	0	98.4	80 - 120			
m,p-Xylene	97.48	10	100	0	97.5	78 - 121			
o-Xylene	48.95	5.0	50	0	97.9	80 - 120			
Xylenes, Total	146.4	15	150	0	97.6	80 - 120			
Surr: 1,2-Dichloroethane-d4	47.78	5.0	50	0	95.6	70 - 125			
Surr: 4-Bromofluorobenzene	51.23	5.0	50	0	102	72 - 125			
Surr: Dibromofluoromethane	49.63	5.0	50	0	99.3	71 - 125			
Surr: Toluene-d8	50.06	5.0	50	0	100	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260					
MS		Sample ID: HS14040667-24MS		Units: ug/L		Analysis Date: 21-Apr-2014 14:01			
Client ID: MW-113-0414		Run ID: VOA6_232323		SeqNo: 2803325		PrepDate:		DF: 25	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	3165	120	1250	2312	68.2	73 - 121			S
Ethylbenzene	1439	120	1250	395.8	83.4	80 - 120			
m,p-Xylene	2891	250	2500	819	82.9	78 - 121			
o-Xylene	1163	120	1250	89.7	85.9	80 - 120			
Xylenes, Total	4053	380	3750	908.7	83.9	80 - 120			
Surr: 1,2-Dichloroethane-d4	1205	120	1250	0	96.4	70 - 125			
Surr: 4-Bromofluorobenzene	1275	120	1250	0	102	72 - 125			
Surr: Dibromofluoromethane	1228	120	1250	0	98.2	71 - 125			
Surr: Toluene-d8	1246	120	1250	0	99.7	75 - 125			

MSD		Sample ID: HS14040667-24MSD		Units: ug/L		Analysis Date: 21-Apr-2014 14:25			
Client ID: MW-113-0414		Run ID: VOA6_232323		SeqNo: 2803326		PrepDate:		DF: 25	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	3328	120	1250	2312	81.3	73 - 121	3165	5.02	20
Ethylbenzene	1616	120	1250	395.8	97.6	80 - 120	1439	11.6	20
m,p-Xylene	3243	250	2500	819	97.0	78 - 121	2891	11.5	20
o-Xylene	1333	120	1250	89.7	99.4	80 - 120	1163	13.6	20
Xylenes, Total	4576	380	3750	908.7	97.8	78 - 121	4053	12.1	20
Surr: 1,2-Dichloroethane-d4	1202	120	1250	0	96.1	70 - 125	1205	0.27	20
Surr: 4-Bromofluorobenzene	1274	120	1250	0	102	72 - 125	1275	0.0468	20
Surr: Dibromofluoromethane	1244	120	1250	0	99.5	71 - 125	1228	1.34	20
Surr: Toluene-d8	1244	120	1250	0	99.5	75 - 125	1246	0.188	20

The following samples were analyzed in this batch: HS14040667-24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81348		Instrument: UV-2450		Method: SW9012	
MBLK	Sample ID: MBLK-232805	Units: mg/L		Analysis Date: 29-Apr-2014 19:22	
Client ID:	Run ID: UV-2450_232805	SeqNo: 2814689		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	U	0.0200			
MBLK	Sample ID: MBLK-81348	Units: mg/L		Analysis Date: 29-Apr-2014 16:52	
Client ID:	Run ID: UV-2450_232789	SeqNo: 2814306		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	U	0.0200			
LCS	Sample ID: LCS-232805	Units: mg/L		Analysis Date: 29-Apr-2014 19:22	
Client ID:	Run ID: UV-2450_232805	SeqNo: 2814690		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.193	0.0200	0.2	0 96.5	80 - 120
LCS	Sample ID: LCS-81348	Units: mg/L		Analysis Date: 29-Apr-2014 16:52	
Client ID:	Run ID: UV-2450_232789	SeqNo: 2814307		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.193	0.0200	0.2	0 96.5	80 - 120
LCSD	Sample ID: LCSD-232805	Units: mg/L		Analysis Date: 29-Apr-2014 19:22	
Client ID:	Run ID: UV-2450_232805	SeqNo: 2814691		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.198	0.0200	0.2	0 99.0	80 - 120 0.193 2.56 20
MS	Sample ID: HS14040598-14MS	Units: mg/L		Analysis Date: 29-Apr-2014 19:22	
Client ID:	Run ID: UV-2450_232805	SeqNo: 2814698		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.184	0.0200	0.2	0.001 91.5	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
WorkOrder: HS14040667
Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: 81348		Instrument: UV-2450		Method: SW9012	
MS	Sample ID: HS14040598-14MS	Units: mg/L		Analysis Date: 29-Apr-2014 16:52	
Client ID:	Run ID: UV-2450_232789	SeqNo: 2814314		PrepDate: 24-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.184	0.0200	0.2	0.001 91.5	80 - 120
The following samples were analyzed in this batch:					
HS14040667-03 HS14040667-14 HS14040667-20 HS14040667-26					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232165		Instrument: Balance1		Method: M2540C	
MBLK	Sample ID: WBLK-041614	Units: mg/L		Analysis Date: 17-Apr-2014 17:50	
Client ID:	Run ID: Balance1_232165	SeqNo: 2799479		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)					
		U	10.0		
LCS	Sample ID: WLCS-041614	Units: mg/L		Analysis Date: 17-Apr-2014 17:50	
Client ID:	Run ID: Balance1_232165	SeqNo: 2799480		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)					
		990	10.0	1000	0 99.0 85 - 115
DUP	Sample ID: HS14040667-22DUP	Units: mg/L		Analysis Date: 17-Apr-2014 17:50	
Client ID: Dup-6-0414	Run ID: Balance1_232165	SeqNo: 2799478		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)					
		3760	10.0		3620 3.79 10
DUP	Sample ID: HS14040609-04DUP	Units: mg/L		Analysis Date: 17-Apr-2014 17:50	
Client ID:	Run ID: Balance1_232165	SeqNo: 2799460		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)					
		36500	10.0		36220 0.77 10
The following samples were analyzed in this batch:					
		HS14040667-01	HS14040667-03	HS14040667-05	HS14040667-06
		HS14040667-08	HS14040667-10	HS14040667-12	HS14040667-14
		HS14040667-16	HS14040667-18	HS14040667-20	HS14040667-22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232275		Instrument: Balance1		Method: M2540C					
MBLK	Sample ID: WBLK-041814	Units: mg/L		Analysis Date: 18-Apr-2014 18:50					
Client ID:	Run ID: Balance1_232275	SeqNo: 2802082		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0						
LCS	Sample ID: WLCS-041814	Units: mg/L		Analysis Date: 18-Apr-2014 18:50					
Client ID:	Run ID: Balance1_232275	SeqNo: 2802083		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		998	10.0	1000	0 99.8	85 - 115			
DUP	Sample ID: HS14040667-24DUP	Units: mg/L		Analysis Date: 18-Apr-2014 18:50					
Client ID: MW-113-0414	Run ID: Balance1_232275	SeqNo: 2802076		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		2420	10.0			2440	0.823	10	
The following samples were analyzed in this batch:		HS14040667-24 HS14040667-32		HS14040667-26		HS14040667-28		HS14040667-30	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232798		Instrument: ICS3K2		Method: E300	
MBLK	Sample ID: WBLKW1	Units: mg/L		Analysis Date: 28-Apr-2014 21:10	
Client ID:	Run ID: ICS3K2_232798	SeqNo: 2814564		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	U	0.500			
Fluoride	U	0.100			
Sulfate	U	0.500			

LCS	Sample ID: WLCSW1	Units: mg/L		Analysis Date: 28-Apr-2014 21:34	
Client ID:	Run ID: ICS3K2_232798	SeqNo: 2814565		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	20.22	0.500	20	0 101	90 - 110
Fluoride	4.001	0.100	4	0 100	90 - 110
Sulfate	19.35	0.500	20	0 96.8	90 - 110

MS	Sample ID: HS14040667-32MS	Units: mg/L		Analysis Date: 29-Apr-2014 04:49	
Client ID: RW-18-0414	Run ID: ICS3K2_232798	SeqNo: 2814584		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	4048	25.0	500	3669 75.7	80 - 120 SO
Fluoride	111.5	5.00	100	24.44 87.1	80 - 120
Sulfate	29310	25.0	500	29670 -71.6	80 - 120 SEO

MSD	Sample ID: HS14040667-32MSD	Units: mg/L		Analysis Date: 29-Apr-2014 05:13	
Client ID: RW-18-0414	Run ID: ICS3K2_232798	SeqNo: 2814585		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	4041	25.0	500	3669 74.4	80 - 120 4048 0.158 20 SO
Fluoride	106.2	5.00	100	24.44 81.8	80 - 120 111.5 4.88 20
Sulfate	29250	25.0	500	29670 -84.0	80 - 120 29310 0.212 20 SEO

The following samples were analyzed in this batch:					
HS14040667-01	HS14040667-03	HS14040667-05	HS14040667-06		
HS14040667-08	HS14040667-10	HS14040667-12	HS14040667-14		
HS14040667-16	HS14040667-18	HS14040667-20	HS14040667-22		
HS14040667-24	HS14040667-26	HS14040667-28	HS14040667-30		
HS14040667-32					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232849		Instrument: ICS3K2		Method: E300	
MBLK	Sample ID: WBLKW1	Units: mg/L		Analysis Date: 29-Apr-2014 18:50	
Client ID:	Run ID: ICS3K2_232849	SeqNo: 2815550		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	U	0.500			
Sulfate	U	0.500			

LCS	Sample ID: WLCSW1	Units: mg/L		Analysis Date: 29-Apr-2014 19:14	
Client ID:	Run ID: ICS3K2_232849	SeqNo: 2815551		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	19.81	0.500	20	0 99.1	90 - 110
Sulfate	18.9	0.500	20	0 94.5	90 - 110

MS	Sample ID: HS14040667-32MS	Units: mg/L		Analysis Date: 30-Apr-2014 02:29	
Client ID: RW-18-0414	Run ID: ICS3K2_232849	SeqNo: 2815569		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	926.8	25.0	500	346.8 116	80 - 120
Sulfate	3402	25.0	500	2856 109	80 - 120 O

MSD	Sample ID: HS14040667-32MSD	Units: mg/L		Analysis Date: 30-Apr-2014 02:53	
Client ID: RW-18-0414	Run ID: ICS3K2_232849	SeqNo: 2815570		PrepDate:	DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Chloride	929.5	25.0	500	346.8 117	80 - 120 926.8 0.29 20
Sulfate	3418	25.0	500	2856 112	80 - 120 3402 0.486 20 O

The following samples were analyzed in this batch:					
HS14040667-01	HS14040667-03	HS14040667-05	HS14040667-06		
HS14040667-08	HS14040667-10	HS14040667-12	HS14040667-16		
HS14040667-18	HS14040667-20	HS14040667-22	HS14040667-24		
HS14040667-28	HS14040667-30	HS14040667-32			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R232938		Instrument: ICS2100		Method: E300	
MBLK	Sample ID: WBLKW2	Units: mg/L		Analysis Date: 24-Apr-2014 16:13	
Client ID:	Run ID: ICS2100_232938	SeqNo: 2817499		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	U	0.200			

LCS	Sample ID: WLCSW2	Units: mg/L		Analysis Date: 24-Apr-2014 16:28	
Client ID:	Run ID: ICS2100_232938	SeqNo: 2817500		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	8.274	0.200	8	0 103	90 - 110

MS	Sample ID: HS14040667-32MS	Units: mg/L		Analysis Date: 24-Apr-2014 07:46	
Client ID: RW-18-0414	Run ID: ICS2100_232938	SeqNo: 2817495		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	21.65	1.00	20	3.327 91.6	80 - 120

MSD	Sample ID: HS14040667-32MSD	Units: mg/L		Analysis Date: 24-Apr-2014 08:01	
Client ID: RW-18-0414	Run ID: ICS2100_232938	SeqNo: 2817496		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Nitrate/Nitrite (as N)	21.79	1.00	20	3.327 92.3	80 - 120 21.65 0.622 20

The following samples were analyzed in this batch:					
HS14040667-01	HS14040667-03	HS14040667-05	HS14040667-06		
HS14040667-08	HS14040667-10	HS14040667-12	HS14040667-14		
HS14040667-16	HS14040667-18	HS14040667-20	HS14040667-22		
HS14040667-24	HS14040667-26	HS14040667-28	HS14040667-30		
HS14040667-32					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040667
 Project: SA Artesia Refinery-Sitewide GW

QC BATCH REPORT

Batch ID: R233006		Instrument: UV-2450		Method: SW9012	
MBLK	Sample ID: MBLK-233006	Units: mg/L		Analysis Date: 29-Apr-2014 10:24	
Client ID:	Run ID: UV-2450_233006	SeqNo: 2818513		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	U	0.0200			

LCS	Sample ID: LCS-233006	Units: mg/L		Analysis Date: 29-Apr-2014 10:24	
Client ID:	Run ID: UV-2450_233006	SeqNo: 2818514		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.169	0.0200	0.2	0 84.5	80 - 120

LCSD	Sample ID: LCSD-233006	Units: mg/L		Analysis Date: 29-Apr-2014 10:24	
Client ID:	Run ID: UV-2450_233006	SeqNo: 2818515		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.167	0.0200	0.2	0 83.5	80 - 120 0.169 1.19 20

MS	Sample ID: HS14040667-30MS	Units: mg/L		Analysis Date: 29-Apr-2014 10:24	
Client ID: KWB-1A-0414	Run ID: UV-2450_233006	SeqNo: 2818516		PrepDate: 25-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Cyanide	0.19	0.0200	0.2	0.001 94.5	80 - 120

The following samples were analyzed in this batch: HS14040667-22 HS14040667-30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
WorkOrder: HS14040667

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	AR - 2014	27-Mar-2015
California	2919	31-Jul-2015
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003403	09-May-2015
Kansas	E-10352 8/15/2013-2014	01-Oct-2014
Kentucky	KY 2014-2015	30-Apr-2015
Louisiana	03087 2014/2015	30-Jun-2015
North Carolina	624 - 2014	31-Dec-2014
North Dakota	R-193 2025	30-Apr-2015
Oklahoma	2014-128	31-Aug-2015
Texas	TX104704231-14-13	30-Apr-2015

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Work Order: HS14040667

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS14040667-01	MW-68-0414	Login	15-Apr-14 08:32	PMG	14A
HS14040667-01	MW-68-0414	Login	15-Apr-14 08:32	PMG	14A
HS14040667-01	MW-68-0414	Login	15-Apr-14 08:32	PMG	14A
HS14040667-01	MW-68-0414	Login	15-Apr-14 08:32	PMG	TPH C2
HS14040667-02	MW-68-0414-D	Login	15-Apr-14 08:45	PMG	14A
HS14040667-03	MW-71-0414	Login	15-Apr-14 08:49	PMG	14A
HS14040667-03	MW-71-0414	Login	15-Apr-14 08:49	PMG	14A
HS14040667-03	MW-71-0414	Login	15-Apr-14 08:49	PMG	14A
HS14040667-03	MW-71-0414	Login	15-Apr-14 08:49	PMG	14A
HS14040667-03	MW-71-0414	Login	15-Apr-14 08:49	PMG	14A
HS14040667-03	MW-71-0414	Login	15-Apr-14 08:49	PMG	TPH C2
HS14040667-04	MW-71-0414-D	Login	15-Apr-14 08:55	PMG	14A
HS14040667-05	NP-1-0414	Login	15-Apr-14 08:57	PMG	14A
HS14040667-05	NP-1-0414	Login	15-Apr-14 08:57	PMG	14A
HS14040667-06	MW-20-0414	Login	15-Apr-14 09:03	PMG	14A
HS14040667-06	MW-20-0414	Login	15-Apr-14 09:03	PMG	14A
HS14040667-06	MW-20-0414	Login	15-Apr-14 09:03	PMG	14A
HS14040667-06	MW-20-0414	Login	15-Apr-14 09:03	PMG	TPH C2
HS14040667-07	MW-20-0414-D	Login	15-Apr-14 09:03	PMG	14A
HS14040667-08	Dup-5-0414	Login	15-Apr-14 09:04	PMG	14A
HS14040667-08	Dup-5-0414	Login	15-Apr-14 09:04	PMG	14A
HS14040667-08	Dup-5-0414	Login	15-Apr-14 09:04	PMG	14A
HS14040667-08	Dup-5-0414	Login	15-Apr-14 09:04	PMG	TPH C2
HS14040667-09	Dup-5-0414-D	Login	15-Apr-14 09:04	PMG	14A
HS14040667-10	MW-8-0414	Login	15-Apr-14 09:05	PMG	14A
HS14040667-10	MW-8-0414	Login	15-Apr-14 09:05	PMG	14A
HS14040667-10	MW-8-0414	Login	15-Apr-14 09:05	PMG	14A
HS14040667-10	MW-8-0414	Login	15-Apr-14 09:05	PMG	TPH C2
HS14040667-11	MW-8-0414-D	Login	15-Apr-14 09:05	PMG	14A
HS14040667-12	MW-21-0414	Login	15-Apr-14 09:06	PMG	14A
HS14040667-12	MW-21-0414	Login	15-Apr-14 09:06	PMG	14A
HS14040667-12	MW-21-0414	Login	15-Apr-14 09:06	PMG	14A
HS14040667-12	MW-21-0414	Login	15-Apr-14 09:06	PMG	TPH C2
HS14040667-13	MW-21-0414-D	Login	15-Apr-14 09:06	PMG	14A
HS14040667-14	EB-8-0414	Login	15-Apr-14 09:07	PMG	14A
HS14040667-14	EB-8-0414	Login	15-Apr-14 09:07	PMG	14A
HS14040667-14	EB-8-0414	Login	15-Apr-14 09:07	PMG	14A
HS14040667-14	EB-8-0414	Login	15-Apr-14 09:07	PMG	14A
HS14040667-14	EB-8-0414	Login	15-Apr-14 09:07	PMG	TPH C2
HS14040667-15	EB-8-1414-D	Login	15-Apr-14 09:07	PMG	14A

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Work Order: HS14040667

SAMPLE TRACKING

HS14040667-16	MW-135-0414	Login	15-Apr-14 09:08	PMG	14A
HS14040667-16	MW-135-0414	Login	15-Apr-14 09:08	PMG	14A
HS14040667-16	MW-135-0414	Login	15-Apr-14 09:08	PMG	14A
HS14040667-16	MW-135-0414	Login	15-Apr-14 09:08	PMG	TPH C2
HS14040667-17	MW-135-0414-D	Login	15-Apr-14 09:08	PMG	14A
HS14040667-18	MW-57-0414	Login	15-Apr-14 09:09	PMG	14A
HS14040667-18	MW-57-0414	Login	15-Apr-14 09:09	PMG	14A
HS14040667-18	MW-57-0414	Login	15-Apr-14 09:09	PMG	14A
HS14040667-18	MW-57-0414	Login	15-Apr-14 09:09	PMG	TPH C2
HS14040667-19	MW-57-0414-D	Login	15-Apr-14 09:09	PMG	14A
HS14040667-20	KWB-12B-0414	Login	15-Apr-14 09:10	PMG	14A
HS14040667-20	KWB-12B-0414	Login	15-Apr-14 09:10	PMG	14A
HS14040667-20	KWB-12B-0414	Login	15-Apr-14 09:10	PMG	14A
HS14040667-20	KWB-12B-0414	Login	15-Apr-14 09:10	PMG	TPH C2
HS14040667-20	KWB-12B-0414	Login	15-Apr-14 09:10	PMG	14A
HS14040667-21	KWB-12B-0414-D	Login	15-Apr-14 09:10	PMG	14A
HS14040667-22	Dup-6-0414	Login	15-Apr-14 09:11	PMG	14A
HS14040667-22	Dup-6-0414	Login	15-Apr-14 09:11	PMG	14A
HS14040667-22	Dup-6-0414	Login	15-Apr-14 09:11	PMG	14A
HS14040667-22	Dup-6-0414	Login	15-Apr-14 09:11	PMG	14A
HS14040667-22	Dup-6-0414	Login	15-Apr-14 09:11	PMG	TPH C2
HS14040667-23	Dup-6-0414-D	Login	15-Apr-14 09:11	PMG	14A
HS14040667-24	MW-113-0414	Login	15-Apr-14 09:12	PMG	14A
HS14040667-24	MW-113-0414	Login	15-Apr-14 09:12	PMG	14A
HS14040667-24	MW-113-0414	Login	15-Apr-14 09:12	PMG	14A
HS14040667-24	MW-113-0414	Login	15-Apr-14 09:12	PMG	TPH C2
HS14040667-25	MW-113-01414-D	Login	15-Apr-14 09:12	PMG	14A
HS14040667-26	EB-9-0414	Login	15-Apr-14 09:13	PMG	14A
HS14040667-26	EB-9-0414	Login	15-Apr-14 09:13	PMG	14A
HS14040667-26	EB-9-0414	Login	15-Apr-14 09:13	PMG	14A
HS14040667-26	EB-9-0414	Login	15-Apr-14 09:13	PMG	14A
HS14040667-26	EB-9-0414	Login	15-Apr-14 09:13	PMG	TPH C2
HS14040667-27	EB-9-0414-D	Login	15-Apr-14 09:13	PMG	14A
HS14040667-28	MW-134-0414	Login	15-Apr-14 09:13	PMG	14A
HS14040667-28	MW-134-0414	Login	15-Apr-14 09:13	PMG	14A
HS14040667-28	MW-134-0414	Login	15-Apr-14 09:13	PMG	14A
HS14040667-28	MW-134-0414	Login	15-Apr-14 09:13	PMG	TPH C2
HS14040667-29	MW-134-0414-D	Login	15-Apr-14 09:14	PMG	14A
HS14040667-30	KWB-1A-0414	Login	15-Apr-14 09:15	PMG	14A
HS14040667-30	KWB-1A-0414	Login	15-Apr-14 09:15	PMG	14A
HS14040667-30	KWB-1A-0414	Login	15-Apr-14 09:15	PMG	14A
HS14040667-30	KWB-1A-0414	Login	15-Apr-14 09:15	PMG	14A

Client: Navajo Refining Company
Project: SA Artesia Refinery-Sitewide GW
Work Order: HS14040667

SAMPLE TRACKING

HS14040667-30	KWB-1A-0414	Login	15-Apr-14 09:15	PMG	TPH C2
HS14040667-31	KWB-1A-0414-D	Login	15-Apr-14 09:15	PMG	14A
HS14040667-32	RW-18-0414	Login	15-Apr-14 09:16	PMG	14A
HS14040667-32	RW-18-0414	Login	15-Apr-14 09:16	PMG	14A
HS14040667-32	RW-18-0414	Login	15-Apr-14 09:16	PMG	14A
HS14040667-33	RW-18-0414-D	Login	15-Apr-14 09:18	PMG	14A
HS14040667-34	TB-032814-15	Login	16-Apr-14 10:21	PMG	VW-3

Sample Receipt Checklist

Client Name: Navajo Refining
Work Order: HS14040667

Date/Time Received: **12-Apr-2014 09:20**
Received by: **JDE**

Checklist completed by: Paresh M. Giga 16-Apr-2014
eSignature Date
Reviewed by: Sonia West 23-Apr-2014
eSignature Date

Matrices: **Water**Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☒	Not Present ☐
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s): 1.2c/1.2c,1.3c/1.3c,1.0c/1.0c,0.9c/0.9c,1.1c/1.1c IR3
C/U

Cooler(s)/Kit(s): 5931,5986,5929,6111,3568

Date/Time sample(s) sent to storage: 4/16/14 11:00

Water - VOA vials have zero headspace? Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt? Yes ☐ No ☒ N/A ☐

pH adjusted? Yes ☒ No ☐ N/A ☐

pH adjusted by: Nilesh D. Ranchod

Login Notes: MW57-0414 - 2ml HNO3 (LOT-291032706) MW-57-0414 & MW135-0414 & MW113-0414 - 2ml H2SO4 (LOT 291313405)

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:



Environmental

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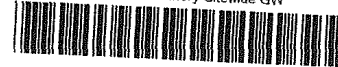
Chain of Custody Form

Page 1 of 2

COC ID: **93365**

HS14040667

Navajo Refining Company
SA Artesia Refinery-Sitewide GW



ALS Project Manager:

Customer Information				Project Information				ALS Project Manager:												
Purchase Order	133604 173654			Project Name	SA- Artesia Refinery-Sitewide GW			A	VOC (8200) Select											
Work Order				Project Number				B	GRO (8015M)											
Company Name	Navajo Refining Company			Bill To Company	Navajo Refining Company			C	DRO (8015M)											
Send Report To	Aaron Strange			Invoice Attn	Carrie Hernandez			D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se											
Address	PO Box 159			Address	PO Box 159			E	Total Metals (6020/7470) Hg, Ni, V											
City/State/Zip	Artesia, NM 88211			City/State/Zip	Artesia, NM 88211			F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS											
Phone	(575) 748-6733			Phone	(575) 748-6733			G	Cyanide (9014)											
Fax	(575) 748-5421			Fax	(575) 748-5421			H	Nitrate/Nitrite as N (preserved)											
e-Mail Address	robert.combs@navajo-refining.com			e-Mail Address	robert.combs@navajo-refining.com			I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se											
								J	Dis. Metals (6020/7470) Hg, Ni, V											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	www-68-0414	04/08/14	1000	HW	2,3,8	6			X	X		X		X						
2	www-68-0414-D	04/09/14	1000	HW	2,8	1									X					
3	www-71-0414	04/09/14	1035	HW	2,3,4,8	7			X	X	X	X	X	X						
4	www-71-0414-D	04/09/14	1035	HW	2,8	1									X	X				
5	NP-1-0414	04/10/14	1115	HW	3,8	2					X			X						
6	www-20-0414	04/10/14	1150	HW	2,3,8	6			X	X		X		X						
7	www-20-0414-D	04/10/14	1150	HW	2,8	1			X	X					X					
8	Dup-5-0414	04/10/14		HW	2,3,8	6			X	X		X		X						
9	Dup-5-0414-D	04/10/14		HW	2,8	1									X					
10																				

Sampler(s) Please Print & Sign				Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:	
Sosa, Serry, Son, Jerry				Fed X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour					
Relinquished by:		Date:	Time:	Received by:		Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis					
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID:		Cooler Temp:		QC Package: (Check One Box Below)	
Relinquished by:		Date:	Time:	Received by (Laboratory):						☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other / EDD	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):						☐ TRRP Checklist ☐ TRRP Level IV	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035											

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page 2 of 2

COC ID: 93406

Houston, TX
+1 281 530 5656
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Spring City, PA
+1 610 948 4903
Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information							ALS Project Manager:		ALS Work Order #: <u>HS140667</u>											
Project Information							Parameter/Method Request for Analysis													
Purchase Order	<u>173406 173654</u>						Project Name	SA- Artesia Refinery-NCL SA GW						A	VOC (8260) Select					
Work Order							Project Number							B	GRO (8015M)					
Company Name	Navajo Refining Company						Bill To Company	Navajo Refining Company						C	DRO (8015M)					
Send Report To	Aaron Sirange						Invoice Attn	Carrie Hernandez						D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se					
Address	PO Box 159						Address	PO Box 159						E	Total Metals (6020/7470) Hg, Ni, V					
City/State/Zip	Artesia, NM 88211						City/State/Zip	Artesia, NM 88211						F	Anions (300) Cl, F, SO ₄ , Cations (Ca, Mg, K, Na) TDS					
Phone	(575) 748-6733						Phone	(575) 748-6733						G	Cyanide (9014)					
Fax	(575) 746-5421						Fax	(575) 746-5421						H	Nitrate/Nitrite as N (preserved)					
e-Mail Address	robert.combs@navajo-refining.com						e-Mail Address	robert.combs@navajo-refining.com						I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se					
														J	Dis. Metals (6020/7470) Hg, Ni, V					

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw-8-0414	04/08/14	1235	HW	2,3,8	6			X	X		X		X			
2	mw-8-0414-D	04/10/14	1235	HW	2,8	1			X	X		X		X			
3	mw-21-0414	04/10/14	1315	HW	2,3,8	6			X	X		X		X			
4	mw-21-0414-D	04/10/14	1315	HW	2,8	1			X	X		X		X			
5	EB-8-0414	04/10/14	1320	HW	2,3,4,8	7			X	X	X	X	X	X			
6	EB-8-0414-D	04/10/14	1320		2,8	1			X	X		X		X		X	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign				Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:			
<u>Jose Larry Sonfong</u>				<u>FEEL X</u>		☒ Std. 10 Wk Days ☐ 5 Wk Days ☐ Other							
Relinquished by:				Date:		Notes:				10 Work Days TAT. CC Pam Krueger/Arcadis			
<u>Jose Larry Sonfong</u>				<u>04/11/14</u>		<u>1500</u>							
Relinquished by:				Date:		Received by (Laboratory):							
<u>Jose Larry Sonfong</u>				<u>4-12-14</u>		<u>9:20</u>							
Logged by (Laboratory):				Date:		Checked by (Laboratory):							
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035								Cooler ID:		Cooler Temp:		QC Package: (Check One Box Below)	
												☒ Level II Std QC ☐ TRRP CheckList	
												☐ Level III Std QC/Raw Data ☐ TRRP Level IV	
												☐ Level IV SW846/CLP	
												☐ Other / EDD	

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+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order	173468 138604	Project Name	SA- Artesia Refinery-NCL SA GW	A	VOC (8260) Select												
Work Order		Project Number		B	GRO (8015M)												
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)												
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V												
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO ₄ , Cations (Ca, Mg, K, Na) TDS												
Phone	(575) 748-8733	Phone	(575) 748-8733	G	Cyanide (9014)												
Fax	(575) 746-5421	Fax	(575) 746-5421	H	Nitrate/Nitrite as N (preserved)												
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
				J	Dis. Metals (6020/7470) Hg, Ni, V												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw-135-0414	04/10/14	1350	fw	2.3.8	6			X	X		X		X			
2	mw-135-0414-D	04/10/14	1350	fw	2.8	1									X		
3	mw-57-0414	04/10/14	1450	fw	2.3.8	6			X	X		X		X			
4	mw-57-0414-D	04/10/14	1450	fw	2.8	1									X		
5	kwB-12B-0414	04/11/14	0815	fw	2.3.4.8	7			X	X	X	X	X	X			
6	kwB-12B-0414-D	04/11/14	0815	fw	2.8	1									X	X	
7	Dup-6-0414	04/11/14		fw	2.3.4.8	7			X	X	X	X	X	X			
8	Dup-6-0414-D	04/11/14		fw	2.8	1									X	X	
9																	
10																	
Sample(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:									
Sara Jany Sr Jany		60X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other				☐ 2 WK Days ☐ 24 Hour									
Requisitioned by:		Date:		Time:		Received by:		Notes:									
Sra Jany		04/11/14		1500		Justin G.		10 Work Days TAT. CC Pam Krueger/Arcadis									
Requisitioned by:		Date:		Time:		Received by (Laboratory):		Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)					
Sra Jany		4/12/14		9:20		Justin G.						☒ Level II Std QC ☐ TRRP CheckList					
Logged by (Laboratory):		Date:		Time:		Checked by (Laboratory):						☐ Level III Std QC/Raw Data ☐ TRRP Level IV					
												☐ Level IV SW846/CLP					
												☐ Other / EDD					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																	

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Salt Lake City, UT
+1 801 266 7700

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+1 304 356 3168
York, PA
+1 717 505 5280

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	173488-138604	Project Name	SA- Artesia Refinery-NCL SA GW	A	VOC (8260) Select											
Work Order		Project Number		B	GRO (8015M)											
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)											
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se											
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V											
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS											
Phone	(575) 748-6733	Phone	(575) 748-6733	G	Cyanide (9014)											
Fax	(575) 748-5421	Fax	(575) 748-5421	H	Nitrate/Nitrite as N (preserved)											
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se											
				J	Dis. Metals (6020/7470) Hg, Ni, V											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-113-0414	04/11/14	0930	HW	2,3,8	6			XX			X		X			
2	MW-113-0414-D	04/11/14	0930	HW	2,8	1									X		
3	EB-9-0414	04/11/14	0945	HW	2,3,4,8	7			XX	XX	XX	XX	XX				
4	EB-9-0414-D	04/11/14	0945	HW	2,8	1									XX		
5	MW-134-0414	04/11/14	1015	HW	2,3,8	6			XX			X		X			
6	MW-134-0414-D	04/11/14	1015	HW	2,8	1									X		
7	KWB-1A-0414	04/11/14	1045	HW	2,3,4,8	7			X	XX	XX	XX	XX	XX			
8	KWB-1A-0414-D	04/11/14	1045	HW	2,8	1									XX		
9	RW-18-0414	04/11/14	1120	HW	2,3,8	3			X	XX	XX			X			
10	RW-18-0414-D	04/11/14	1120	HW	2,8	1									X		

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Sosa, Gary Sosa, Gary		FBO X		☒ Std. 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour			
Relinquished by:	Date:	Time:	Received by:	Notes:			
Sosa, Gary	04/11/14	1:50		10 Work Days TAT. CC Pam Krueger/Arcadis			
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
	4-12-14	9:20	Pulson E			☒ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):			

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

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York, PA
+1 717 505 5280

Customer Information		Project Information		Parameter/Method Request for Analysis																
Purchase Order	473468 138604	Project Name	SA- Artesia Refinery-NCL SA GW	A	VOC (8260) Select															
Work Order		Project Number		B	GRO (8015M)															
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)															
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez	D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
Address	PO Box 159	Address	PO Box 159	E	Total Metals (6020/7470) Hg, Ni, V															
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS															
Phone	(575) 748-6733	Phone	(575) 748-6733	G	Cyanide (9014)															
Fax	(575) 746-5421	Fax	(575) 746-5421	H	Nitrate/Nitrite as N (preserved)															
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com	I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se															
				J	Dis. Metals (6020/7470) Hg, Ni, V															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	MW-135-0414	04/10/14	1350	HW	1,8	6	X	X												
2	MW-57-0414	04/10/14	1450	HW	1,8	6	X	X												
3	KWB-12B-0414	04/11/14	0815	HW	1,8	6	X	X												
4	Dup-6-0414	04/11/14		HW	1,8	6	X	X												
5	MW-113-0414	04/11/14	0930	HW	1,8	6	X	X												
6	CB-9-0414	04/11/14	0945	HW	1,8	6	X	X												
7	MW-134-0414	04/11/14	1015	HW	1,8	6	X	X												
8	KWB-1A-0414	04/11/14	1045	HW	1,8	3	X													
9	RW-18	04/11/14	1120	HW	1,8	3	X													
10	TB-032814-15	04/11/14	1500	HW	1,8	2	X													
Samples Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:												
Sara Jerry Son Jerry		600 X		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour																
Relinquished by:		Date:	Time:	Received by:		Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis														
Sara Jerry		04/11/14	1500	Justin E.																
Relinquished by:		Date:	Time:	Received by (Laboratory):		QC Package: (Check One Box Below)														
Sara Jerry		4-12-14	9:20	Justin E.		☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW845/CLP ☐ Other / EDD														
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):																
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																				

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South Charleston, WV
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York, PA
+1 717 505 5280

Customer Information			Project Information			Parameter/Method Request for Analysis													
Purchase Order	473489 173654	Project Name	SA- Artesia Refinery-NCL SA GW			A	VOC (8260) Select												
Work Order		Project Number				B	GRO (8015M)												
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company			C	DRO (8015M)												
Send Report To	Aaron Strange	Invoice Attn	Carrie Hernandez			D	Total Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
Address	PO Box 159	Address	PO Box 159			E	Total Metals (6020/7470) Hg, Ni, V												
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211			F	Anions (300) Cl, F, SO4, Cations (Ca, Mg, K, Na) TDS												
Phone	(575) 748-6733	Phone	(575) 748-6733			G	Cyanide (9014)												
Fax	(575) 746-5421	Fax	(575) 746-5421			H	Nitrate/Nitrite as N (preserved)												
e-Mail Address	robert.combs@navajo-refining.com	e-Mail Address	robert.combs@navajo-refining.com			I	Dis. Metals (6020) As, Ba, Cr, Fe, Pb, Mn, Se												
						J	Dis. Metals (6020/7470) Hg, Ni, V												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	mw-68-0414	04/10/14	1000	ltw	1,8	3	X												
2	mw-71-0414	04/10/14	1035	ltw	1,8	3	X												
3	NP-1-0414	04/10/14	1115	ltw	1,8	3	X												
4	mw-20-0414	04/10/14	1150	ltw	1,8	3	X												
5	Dup-5-0414	04/10/14		ltw	1,8	3	X												
6	mw-8-0414	04/10/14	1235	ltw	1,8	6	X	X											
7	mw-21-0414	04/10/14	1315	ltw	1,8	6	X	X											
8	EB-8-0414	04/10/14	1320	ltw	1,8	6	X	X											
9																			
10																			
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:											
Jose Jerry Son Jerr		800 K		☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour															
Relinquished by:		Date:	Time:	Received by:		Notes: 10 Work Days TAT. CC Pam Krueger/Arcadis													
Jose Jerry		04/11/14	1500	Gustav E.															
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)											
Jose Jerry		4-12-14	9:20	Gustav E.				☒ Level II Std QC ☐ TRRP CheckList ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD											
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):															
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																			

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TRK# 5797 1186 9752 SATURDAY 12:00P
0201 PRIORITY OVERNIGHT

XO SGRA

77099
TX-US IAH



TRK# 5797 1186 9741 SATURDAY
0201 PRIORITY OVERNIGHT

XO SGRA

77099
TX-US IAH



TRK# 5797 1186 9720 SATURDAY 12:00P
0201 PRIORITY OVERNIGHT

XO SGRA

77099
TX-US IAH



ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 4/11/14
Name: [Signature]
Company: [Signature]

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 4/11/14
Name: [Signature]
Company: [Signature]

CUSTODY SEAL		Seal Broken By:
Date: <u>4/11/14</u>	Time: <u>7:50</u>	Date:
<u>[Signature]</u>		

CUSTODY SEAL	
Date: <u>4/11/14</u>	Time: <u>7:50</u>
<u>[Signature]</u>	

TRK# 5797 1186 9763 SAT. PRIORITY OVERNIGHT
 0201 5797 1186 9763 SAT. PRIORITY OVERNIGHT
XO SGRA
 77099 TX-UE IAH
 976814 12apr 00:24 NEMH 512C1/7809/CF60

TRK# 5797 1186 9730 SATURDAY 12:00P PRIORITY OVERNIGHT
 0201 5797 1186 9730 SATURDAY 12:00P PRIORITY OVERNIGHT
XO SGRA
 77099 TX-US IAH
 976814 12apr 00:23 NEMH 512C1/7809/CF60

 ALS Environmental 10450 Stancil Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 6666 Fax. +1 281 530 6887	CUSTODY SEAL Date: 04/11/14 Time: 1800 Name: SOB Time: 1600 Company: SOB
 ALS Environmental 10450 Stancil Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 6666 Fax. +1 281 530 6887	CUSTODY SEAL Date: 04/11/14 Time: 1800 Name: SOB Time: 1600 Company: SOB
 ALS Environmental 10450 Stancil Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 6666 Fax. +1 281 530 6887	CUSTODY SEAL Date: 04/11/14 Time: 1800 Name: SOB Time: 1600 Company: SOB



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F: +1 281 530 5887
www.alsglobal.com

September 04, 2014

Aaron Strange
Navajo Refining Company
PO Box 1490
Artesia, NM 88211-1490

Work Order: **HS14040801**

Revision: **3**

Laboratory Results for: **SA Artesia Refinery Sitewide GW**

Dear Aaron,

ALS Environmental received 31 sample(s) on Apr 17, 2014 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

A handwritten signature in cursive script that reads 'Bethany McDaniel'.

Generated By: Bethany.McDaniel
Bethany McDaniel
Project Manager

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Work Order: HS14040801

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040801-01	MW-126A-0414	Water		15-Apr-2014 08:15	17-Apr-2014 09:30	☐
HS14040801-02	MW-126A-0414-D	Water		15-Apr-2014 08:15	17-Apr-2014 09:30	☐
HS14040801-03	MW-126B-0414	Water		15-Apr-2014 08:45	17-Apr-2014 09:30	☐
HS14040801-04	MW-126B-0414-D	Water		15-Apr-2014 08:45	17-Apr-2014 09:30	☐
HS14040801-05	MW-127-0414	Water		15-Apr-2014 09:15	17-Apr-2014 09:30	☐
HS14040801-06	MW-127-0414-D	Water		15-Apr-2014 09:15	17-Apr-2014 09:30	☐
HS14040801-07	MW-131-0414	Water		15-Apr-2014 10:00	17-Apr-2014 09:30	☐
HS14040801-08	MW-131-0414-D	Water		15-Apr-2014 10:00	17-Apr-2014 09:30	☐
HS14040801-09	MW-111-0414	Water		15-Apr-2014 10:45	17-Apr-2014 09:30	☐
HS14040801-10	MW-111-0414-D	Water		15-Apr-2014 10:45	17-Apr-2014 09:30	☐
HS14040801-11	MW-130-0414	Water		15-Apr-2014 11:30	17-Apr-2014 09:30	☐
HS14040801-12	MW-130-0414-D	Water		15-Apr-2014 11:30	17-Apr-2014 09:30	☐
HS14040801-13	MW-52-0414	Water		15-Apr-2014 12:10	17-Apr-2014 09:30	☐
HS14040801-14	MW-52-0414-D	Water		15-Apr-2014 12:10	17-Apr-2014 09:30	☐
HS14040801-15	DUP-7-0414	Water		15-Apr-2014 00:00	17-Apr-2014 09:30	☐
HS14040801-16	DUP-7-0414-D	Water		15-Apr-2014 00:00	17-Apr-2014 09:30	☐
HS14040801-17	MW-109-0414	Water		15-Apr-2014 13:05	17-Apr-2014 09:30	☐
HS14040801-18	MW-109-0414-D	Water		15-Apr-2014 13:05	17-Apr-2014 09:30	☐
HS14040801-19	MW-110-0414	Water		15-Apr-2014 13:40	17-Apr-2014 09:30	☐
HS14040801-20	MW-110-0414-D	Water		15-Apr-2014 13:40	17-Apr-2014 09:30	☐
HS14040801-21	KWB-13-0414	Water		15-Apr-2014 14:15	17-Apr-2014 09:30	☐
HS14040801-22	KWB-13-0414-D	Water		15-Apr-2014 14:15	17-Apr-2014 09:30	☐
HS14040801-23	EB-10-0414	Water		15-Apr-2014 16:00	17-Apr-2014 09:30	☐
HS14040801-24	EB-10-0414-D	Water		15-Apr-2014 16:00	17-Apr-2014 09:30	☐
HS14040801-25	KWB-11B-0414	Water		16-Apr-2014 08:35	17-Apr-2014 09:30	☐
HS14040801-26	KWB-11B-0414-D	Water		16-Apr-2014 08:35	17-Apr-2014 09:30	☐
HS14040801-27	KWB-7-0414	Water		16-Apr-2014 09:35	17-Apr-2014 09:30	☒

Revision:3

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Work Order: HS14040801

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS14040801-28	KWB-7-0414-D	Water		16-Apr-2014 09:35	17-Apr-2014 09:30	☒
HS14040801-29	EB-11-0414	Water		16-Apr-2014 10:30	17-Apr-2014 09:30	☐
HS14040801-30	EB-11-0414-D	Water		16-Apr-2014 10:30	17-Apr-2014 09:30	☐
HS14040801-31	EBLank 032814-11	Water		16-Apr-2014 13:00	17-Apr-2014 09:30	☐

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Work Order: HS14040801

CASE NARRATIVE

This report was revised on September 3, 2014 to report to the MDL per client request

This report has been revised to change the project name to Sitewide.

This report has been revised to remove the "Preliminary" from the report.

Cyanide by Method SW9012, Samples DUP-7-0414, KWB-13-0414, EB-10-0414, KWB-11B-0414, EB-11-0414 : Analytical results are flagged with an H qualifier.

Batch 81474, Metals by Method SW6020, Sample HS14040533-03 MS/MSD/PDS were performed on an unrelated sample.

Batch 81476, Metals by Method SW6020, Sample HS14040710-01 MS and DUP RPD were performed on an unrelated sample.

Batch 81807, Metals by Method SW6020, Sample HS14050108-05 MS/MSD/PDS were performed on an unrelated sample.

Batch R232176, Volatile Organics by Method SW8260, Sample "MW-126A-0414": MS recoveries were below the control limits for several compounds, due to possible matrix interference. The associated LCS recoveries and MS/MSD RPD were within the control limits.

Batch R232214, Volatile Organics by Method SW8260, Sample "MW-130-0414": MS and/or MSD recoveries were outside the control limits for several compounds, due to possible matrix interference. The associated LCS recoveries were within the control limits.

Batch R232323, Volatile Organics by Method SW8260, Sample HS14040667-24 MS and MSD RPD were performed on an unrelated sample.

Batch R233075, Cyanide by Method SW9012, Sample "EB-11-0414": MS recovery was below the control limits, due to sample matrix interference. The associated LCS recoveries were within the control limits.

Batch R232214, Volatile Organics Method SW8260: Methyl tert-butyl ether exceeded %D limits for CCV. LCS is within quality control limits. Samples are non-detected "ND" for this constituent.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-126A-0414
 Collection Date: 15-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	19-Apr-2014 12:58
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
1,2,4-Trimethylbenzene	0.0030	J	0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	19-Apr-2014 12:58
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	19-Apr-2014 12:58
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
2-Butanone	U		0.0010	0.010	mg/L	1	19-Apr-2014 12:58
2-Hexanone	U		0.0010	0.010	mg/L	1	19-Apr-2014 12:58
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	19-Apr-2014 12:58
Acetone	U		0.0020	0.010	mg/L	1	19-Apr-2014 12:58
Benzene	0.0034	J	0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
Bromoform	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
Bromomethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
Carbon disulfide	U		0.00090	0.010	mg/L	1	19-Apr-2014 12:58
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
Chlorobenzene	U		0.00040	0.0050	mg/L	1	19-Apr-2014 12:58
Chloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
Chloroform	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
Chloromethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
Ethylbenzene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
m,p-Xylene	0.0035	J	0.00060	0.010	mg/L	1	19-Apr-2014 12:58
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
Methylene chloride	U		0.0010	0.010	mg/L	1	19-Apr-2014 12:58
Naphthalene	0.0013	J	0.00070	0.0050	mg/L	1	19-Apr-2014 12:58
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	19-Apr-2014 12:58
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
o-Xylene	0.0011	J	0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
Styrene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
Toluene	0.0022	J	0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	19-Apr-2014 12:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-126A-0414
 Collection Date: 15-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-01
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 12:58
Trichloroethene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 12:58
Vinyl chloride	U		0.00040	0.0020	mg/L	1	19-Apr-2014 12:58
Xylenes, Total	0.0045	J	0.0015	0.015	mg/L	1	19-Apr-2014 12:58
Surr: 1,2-Dichloroethane-d4	99.4			70-125	%REC	1	19-Apr-2014 12:58
Surr: 4-Bromofluorobenzene	104			72-125	%REC	1	19-Apr-2014 12:58
Surr: Dibromofluoromethane	100			71-125	%REC	1	19-Apr-2014 12:58
Surr: Toluene-d8	97.5			75-125	%REC	1	19-Apr-2014 12:58
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014 Analyst: SKS			
Arsenic	0.00322	J	0.00100	0.00500	mg/L	1	06-May-2014 15:20
Barium	0.0163		0.000900	0.00500	mg/L	1	06-May-2014 15:20
Calcium	472		1.34	10.0	mg/L	20	06-May-2014 15:01
Chromium	0.00131	J	0.00100	0.00500	mg/L	1	06-May-2014 15:20
Iron	0.463		0.0500	0.200	mg/L	1	06-May-2014 15:20
Lead	0.00132	J	0.000700	0.00500	mg/L	1	06-May-2014 15:20
Manganese	0.194		0.00250	0.00500	mg/L	1	06-May-2014 15:20
Potassium	3.09		0.0500	0.200	mg/L	1	06-May-2014 15:20
Selenium	0.00175	J	0.00100	0.00500	mg/L	1	06-May-2014 15:20
Sodium	197		1.00	4.00	mg/L	20	06-May-2014 15:01
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	0.142		0.0100	0.0500	mg/L	1	25-Apr-2014 12:43
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	25-Apr-2014 12:43
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	4,510		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	331		1.00	2.50	mg/L	5	01-May-2014 23:33
Fluoride	0.599		0.0500	0.100	mg/L	1	02-May-2014 04:24
Sulfate	2,080		10.0	25.0	mg/L	50	05-May-2014 15:45
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 22-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	0.71		0.020	0.051	mg/L	1	23-Apr-2014 15:44
Surr: 2-Fluorobiphenyl	125			60-135	%REC	1	23-Apr-2014 15:44
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	03-May-2014 14:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-126A-0414-D
Collection Date: 15-Apr-2014 08:15

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.00366	J	0.00100	0.00500	mg/L	1	15-May-2014 03:43
Barium	0.0136		0.000900	0.00500	mg/L	1	15-May-2014 03:43
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 03:43
Iron	U		0.0780	0.200	mg/L	1	15-May-2014 03:43
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 03:43
Manganese	0.174		0.00250	0.00500	mg/L	1	15-May-2014 03:43
Selenium	0.00270	J	0.00100	0.00500	mg/L	1	15-May-2014 03:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-126B-0414
 Collection Date: 15-Apr-2014 08:45

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-03
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: KKP			
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	25-Apr-2014 21:17
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	25-Apr-2014 21:17
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	25-Apr-2014 21:17
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
2-Butanone	U		0.0010	0.010	mg/L	1	25-Apr-2014 21:17
2-Hexanone	U		0.0010	0.010	mg/L	1	25-Apr-2014 21:17
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	25-Apr-2014 21:17
Acetone	U		0.0020	0.010	mg/L	1	25-Apr-2014 21:17
Benzene	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
Bromoform	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
Bromomethane	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
Carbon disulfide	U		0.00090	0.010	mg/L	1	25-Apr-2014 21:17
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
Chlorobenzene	U		0.00040	0.0050	mg/L	1	25-Apr-2014 21:17
Chloroethane	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
Chloroform	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
Chloromethane	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
Ethylbenzene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
m,p-Xylene	U		0.00060	0.010	mg/L	1	25-Apr-2014 21:17
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
Methylene chloride	U		0.0010	0.010	mg/L	1	25-Apr-2014 21:17
Naphthalene	U		0.00070	0.0050	mg/L	1	25-Apr-2014 21:17
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	25-Apr-2014 21:17
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
o-Xylene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
Styrene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
Toluene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	25-Apr-2014 21:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-126B-0414
 Collection Date: 15-Apr-2014 08:45

ANALYTICAL REPORT

WorkOrder: HS14040801
 Lab ID: HS14040801-03
 Matrix: Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method: SW8260		Analyst: KKP			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	25-Apr-2014 21:17
Trichloroethene	U		0.00050	0.0050	mg/L	1	25-Apr-2014 21:17
Vinyl chloride	U		0.00040	0.0020	mg/L	1	25-Apr-2014 21:17
Xylenes, Total	U		0.0015	0.015	mg/L	1	25-Apr-2014 21:17
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	25-Apr-2014 21:17
Surr: 4-Bromofluorobenzene	100.0			72-125	%REC	1	25-Apr-2014 21:17
Surr: Dibromofluoromethane	102			71-125	%REC	1	25-Apr-2014 21:17
Surr: Toluene-d8	99.2			75-125	%REC	1	25-Apr-2014 21:17
ICP-MS METALS BY SW6020A		Method: SW6020		Prep: SW3010A / 01-May-2014 Analyst: SKS			
Arsenic	0.00299	J	0.00100	0.00500	mg/L	1	06-May-2014 15:25
Barium	0.0182		0.000900	0.00500	mg/L	1	06-May-2014 15:25
Calcium	354		0.134	1.00	mg/L	2	06-May-2014 01:04
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 15:25
Iron	1.32		0.0500	0.200	mg/L	1	06-May-2014 15:25
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 15:25
Manganese	0.918		0.00250	0.00500	mg/L	1	06-May-2014 15:25
Potassium	0.531		0.0500	0.200	mg/L	1	06-May-2014 15:25
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 15:25
Sodium	196		0.100	0.400	mg/L	2	06-May-2014 01:04
GASOLINE RANGE ORGANICS BY SW8015C		Method: SW8015		Analyst: DNR			
Gasoline Range Organics	0.0791		0.0100	0.0500	mg/L	1	25-Apr-2014 13:38
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	25-Apr-2014 13:38
TOTAL DISSOLVED SOLIDS BY SM2540C		Method: M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	4,030		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0		Method: E300		Analyst: JKP			
Chloride	341		1.00	2.50	mg/L	5	01-May-2014 23:47
Fluoride	0.795		0.0500	0.100	mg/L	1	02-May-2014 04:38
Sulfate	1,600		10.0	25.0	mg/L	50	05-May-2014 16:00
TPH DRO/ORO BY SW8015C		Method: SW8015M		Prep: SW3511 / 22-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	0.34		0.021	0.051	mg/L	1	23-Apr-2014 16:10
Surr: 2-Fluorobiphenyl	130			60-135	%REC	1	23-Apr-2014 16:10
NITRATE/NITRITE BY E300.0		Method: E300		Analyst: JKP			
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	03-May-2014 15:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-126B-0414-D
Collection Date: 15-Apr-2014 08:45

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.00344	J	0.00100	0.00500	mg/L	1	15-May-2014 03:47
Barium	0.0168		0.000900	0.00500	mg/L	1	15-May-2014 03:47
Chromium	0.00379	J	0.00100	0.00500	mg/L	1	15-May-2014 03:47
Iron	1.17		0.0780	0.200	mg/L	1	15-May-2014 03:47
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 03:47
Manganese	0.930		0.00250	0.00500	mg/L	1	15-May-2014 03:47
Selenium	0.00115	J	0.00100	0.00500	mg/L	1	15-May-2014 03:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-127-0414
 Collection Date: 15-Apr-2014 09:15

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:49
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
1,2,4-Trimethylbenzene	0.29		0.0025	0.025	mg/L	5	25-Apr-2014 20:28
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:49
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	21-Apr-2014 16:49
1,3,5-Trimethylbenzene	0.063		0.00060	0.0050	mg/L	1	21-Apr-2014 16:49
2-Butanone	0.0036	J	0.0010	0.010	mg/L	1	21-Apr-2014 16:49
2-Hexanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:49
4-Isopropyltoluene	0.0049	J	0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:49
Acetone	0.019		0.0020	0.010	mg/L	1	21-Apr-2014 16:49
Benzene	6.8		0.030	0.25	mg/L	50	25-Apr-2014 20:53
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:49
Bromoform	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
Bromomethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
Carbon disulfide	U		0.00090	0.010	mg/L	1	21-Apr-2014 16:49
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:49
Chlorobenzene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:49
Chloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
Chloroform	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:49
Chloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:49
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:49
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
Ethylbenzene	0.93		0.0025	0.025	mg/L	5	25-Apr-2014 20:28
Isopropylbenzene	0.049		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
m,p-Xylene	0.54		0.0030	0.050	mg/L	5	25-Apr-2014 20:28
Methyl tert-butyl ether	1.4		0.030	0.25	mg/L	50	25-Apr-2014 20:53
Methylene chloride	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:49
Naphthalene	0.14		0.00070	0.0050	mg/L	1	21-Apr-2014 16:49
n-Butylbenzene	0.013		0.0010	0.0050	mg/L	1	21-Apr-2014 16:49
n-Propylbenzene	0.081		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
o-Xylene	0.33		0.0025	0.025	mg/L	5	25-Apr-2014 20:28
sec-Butylbenzene	0.0072		0.00060	0.0050	mg/L	1	21-Apr-2014 16:49
Styrene	0.011		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:49
Toluene	2.4		0.025	0.25	mg/L	50	25-Apr-2014 20:53
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-127-0414
 Collection Date: 15-Apr-2014 09:15

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:49
Trichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:49
Vinyl chloride	U		0.00040	0.0020	mg/L	1	21-Apr-2014 16:49
Xylenes, Total	0.87		0.0075	0.075	mg/L	5	25-Apr-2014 20:28
Surr: 1,2-Dichloroethane-d4	91.5			70-125	%REC	1	21-Apr-2014 16:49
Surr: 1,2-Dichloroethane-d4	105			70-125	%REC	50	25-Apr-2014 20:53
Surr: 1,2-Dichloroethane-d4	105			70-125	%REC	5	25-Apr-2014 20:28
Surr: 4-Bromofluorobenzene	98.4			72-125	%REC	1	21-Apr-2014 16:49
Surr: 4-Bromofluorobenzene	100			72-125	%REC	5	25-Apr-2014 20:28
Surr: 4-Bromofluorobenzene	102			72-125	%REC	50	25-Apr-2014 20:53
Surr: Dibromofluoromethane	91.6			71-125	%REC	1	21-Apr-2014 16:49
Surr: Dibromofluoromethane	103			71-125	%REC	50	25-Apr-2014 20:53
Surr: Dibromofluoromethane	102			71-125	%REC	5	25-Apr-2014 20:28
Surr: Toluene-d8	98.8			75-125	%REC	1	21-Apr-2014 16:49
Surr: Toluene-d8	99.2			75-125	%REC	50	25-Apr-2014 20:53
Surr: Toluene-d8	101			75-125	%REC	5	25-Apr-2014 20:28
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	0.00433	J	0.00100	0.00500	mg/L	1	06-May-2014 15:29
Barium	0.785		0.000900	0.00500	mg/L	1	06-May-2014 15:29
Calcium	185		0.134	1.00	mg/L	2	06-May-2014 01:09
Chromium	0.00192	J	0.00100	0.00500	mg/L	1	06-May-2014 15:29
Iron	1.66		0.0500	0.200	mg/L	1	06-May-2014 15:29
Lead	0.000968	J	0.000700	0.00500	mg/L	1	06-May-2014 15:29
Manganese	0.156		0.00250	0.00500	mg/L	1	06-May-2014 15:29
Potassium	0.612		0.0500	0.200	mg/L	1	06-May-2014 15:29
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 15:29
Sodium	145		0.0500	0.200	mg/L	1	06-May-2014 15:29
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	37.7		0.0100	0.0500	mg/L	1	25-Apr-2014 13:56
Surr: 4-Bromofluorobenzene	123			70-130	%REC	1	25-Apr-2014 13:56
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,040		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	275		1.00	2.50	mg/L	5	02-May-2014 00:02
Fluoride	0.950		0.0500	0.100	mg/L	1	02-May-2014 04:53
Sulfate	392		1.00	2.50	mg/L	5	02-May-2014 00:02
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 22-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	3.5		0.021	0.052	mg/L	1	23-Apr-2014 16:37
Surr: 2-Fluorobiphenyl	96.0			60-135	%REC	1	23-Apr-2014 16:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-127-0414
Collection Date: 15-Apr-2014 09:15

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	03-May-2014 15:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-127-0414-D
Collection Date: 15-Apr-2014 09:15

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.00400	J	0.00100	0.00500	mg/L	1	15-May-2014 04:01
Barium	0.191		0.000900	0.00500	mg/L	1	15-May-2014 04:01
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:01
Iron	0.685		0.0780	0.200	mg/L	1	15-May-2014 04:01
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:01
Manganese	0.155		0.00250	0.00500	mg/L	1	15-May-2014 04:01
Selenium	0.00106	J	0.00100	0.00500	mg/L	1	15-May-2014 04:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-131-0414
 Collection Date: 15-Apr-2014 10:00

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:25
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
1,2,4-Trimethylbenzene	0.23		0.0025	0.025	mg/L	5	25-Apr-2014 19:40
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:25
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	21-Apr-2014 16:25
1,3,5-Trimethylbenzene	0.066		0.00060	0.0050	mg/L	1	21-Apr-2014 16:25
2-Butanone	0.0078	J	0.0010	0.010	mg/L	1	21-Apr-2014 16:25
2-Hexanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:25
4-Isopropyltoluene	0.0060		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:25
Acetone	0.016		0.0020	0.010	mg/L	1	21-Apr-2014 16:25
Benzene	3.1		0.030	0.25	mg/L	50	25-Apr-2014 20:04
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:25
Bromoform	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
Bromomethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
Carbon disulfide	U		0.00090	0.010	mg/L	1	21-Apr-2014 16:25
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:25
Chlorobenzene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:25
Chloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
Chloroform	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:25
Chloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:25
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:25
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
Ethylbenzene	0.21		0.0025	0.025	mg/L	5	25-Apr-2014 19:40
Isopropylbenzene	0.036		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
m,p-Xylene	0.47		0.0030	0.050	mg/L	5	25-Apr-2014 19:40
Methyl tert-butyl ether	5.3		0.030	0.25	mg/L	50	25-Apr-2014 20:04
Methylene chloride	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:25
Naphthalene	0.058		0.00070	0.0050	mg/L	1	21-Apr-2014 16:25
n-Butylbenzene	0.031		0.0010	0.0050	mg/L	1	21-Apr-2014 16:25
n-Propylbenzene	0.084		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
o-Xylene	0.18		0.0025	0.025	mg/L	5	25-Apr-2014 19:40
sec-Butylbenzene	0.013		0.00060	0.0050	mg/L	1	21-Apr-2014 16:25
Styrene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:25
Toluene	1.4		0.025	0.25	mg/L	50	25-Apr-2014 20:04
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-131-0414
 Collection Date: 15-Apr-2014 10:00

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-07
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:25
Trichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:25
Vinyl chloride	U		0.00040	0.0020	mg/L	1	21-Apr-2014 16:25
Xylenes, Total	0.65		0.0075	0.075	mg/L	5	25-Apr-2014 19:40
Surr: 1,2-Dichloroethane-d4	95.4			70-125	%REC	1	21-Apr-2014 16:25
Surr: 1,2-Dichloroethane-d4	106			70-125	%REC	50	25-Apr-2014 20:04
Surr: 1,2-Dichloroethane-d4	105			70-125	%REC	5	25-Apr-2014 19:40
Surr: 4-Bromofluorobenzene	100.0			72-125	%REC	1	21-Apr-2014 16:25
Surr: 4-Bromofluorobenzene	99.8			72-125	%REC	5	25-Apr-2014 19:40
Surr: 4-Bromofluorobenzene	101			72-125	%REC	50	25-Apr-2014 20:04
Surr: Dibromofluoromethane	94.1			71-125	%REC	1	21-Apr-2014 16:25
Surr: Dibromofluoromethane	105			71-125	%REC	50	25-Apr-2014 20:04
Surr: Dibromofluoromethane	101			71-125	%REC	5	25-Apr-2014 19:40
Surr: Toluene-d8	99.8			75-125	%REC	1	21-Apr-2014 16:25
Surr: Toluene-d8	99.8			75-125	%REC	5	25-Apr-2014 19:40
Surr: Toluene-d8	98.6			75-125	%REC	50	25-Apr-2014 20:04
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	0.0196		0.00100	0.00500	mg/L	1	06-May-2014 15:34
Barium	2.37		0.00180	0.0100	mg/L	2	06-May-2014 01:14
Calcium	147		0.0670	0.500	mg/L	1	06-May-2014 15:34
Chromium	0.00159	J	0.00100	0.00500	mg/L	1	06-May-2014 15:34
Iron	2.25		0.0500	0.200	mg/L	1	06-May-2014 15:34
Lead	0.00106	J	0.000700	0.00500	mg/L	1	06-May-2014 15:34
Manganese	0.378		0.00250	0.00500	mg/L	1	06-May-2014 15:34
Potassium	0.573		0.0500	0.200	mg/L	1	06-May-2014 15:34
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 15:34
Sodium	150		0.0500	0.200	mg/L	1	06-May-2014 15:34
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	26.2		0.0100	0.0500	mg/L	1	25-Apr-2014 14:33
Surr: 4-Bromofluorobenzene	119			70-130	%REC	1	25-Apr-2014 14:33
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,360		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	337		1.00	2.50	mg/L	5	02-May-2014 00:16
Fluoride	0.637		0.0500	0.100	mg/L	1	02-May-2014 05:07
Sulfate	12.2		0.200	0.500	mg/L	1	02-May-2014 05:07
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 22-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	3.4		0.10	0.26	mg/L	5	29-Apr-2014 10:05
Surr: 2-Fluorobiphenyl	63.8			60-135	%REC	5	29-Apr-2014 10:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-131-0414
Collection Date: 15-Apr-2014 10:00

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	03-May-2014 16:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-131-0414-D
Collection Date: 15-Apr-2014 10:00

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.0205		0.00100	0.00500	mg/L	1	15-May-2014 04:05
Barium	2.21		0.00900	0.0500	mg/L	10	15-May-2014 16:53
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:05
Iron	1.56		0.0780	0.200	mg/L	1	15-May-2014 04:05
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:05
Manganese	0.384		0.00250	0.00500	mg/L	1	15-May-2014 04:05
Selenium	0.00118	J	0.00100	0.00500	mg/L	1	15-May-2014 04:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-111-0414
 Collection Date: 15-Apr-2014 10:45

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:01
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
1,2,4-Trimethylbenzene	0.0021	J	0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:01
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	21-Apr-2014 16:01
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
2-Butanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:01
2-Hexanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:01
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:01
Acetone	0.054		0.0020	0.010	mg/L	1	21-Apr-2014 16:01
Benzene	0.11		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
Bromoform	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
Bromomethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
Carbon disulfide	U		0.00090	0.010	mg/L	1	21-Apr-2014 16:01
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
Chlorobenzene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:01
Chloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
Chloroform	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
Chloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
Ethylbenzene	0.0085		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
Isopropylbenzene	0.0013	J	0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
m,p-Xylene	0.0046	J	0.00060	0.010	mg/L	1	21-Apr-2014 16:01
Methyl tert-butyl ether	2.0		0.015	0.12	mg/L	25	28-Apr-2014 16:45
Methylene chloride	U		0.0010	0.010	mg/L	1	21-Apr-2014 16:01
Naphthalene	0.0016	J	0.00070	0.0050	mg/L	1	21-Apr-2014 16:01
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	21-Apr-2014 16:01
n-Propylbenzene	0.00082	J	0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
o-Xylene	0.0011	J	0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
Styrene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
Toluene	0.0011	J	0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 16:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-111-0414
 Collection Date: 15-Apr-2014 10:45

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-09
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 16:01
Trichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 16:01
Vinyl chloride	U		0.00040	0.0020	mg/L	1	21-Apr-2014 16:01
Xylenes, Total	0.0057	J	0.0015	0.015	mg/L	1	21-Apr-2014 16:01
Surr: 1,2-Dichloroethane-d4	100			70-125	%REC	1	21-Apr-2014 16:01
Surr: 1,2-Dichloroethane-d4	93.2			70-125	%REC	25	28-Apr-2014 16:45
Surr: 4-Bromofluorobenzene	99.8			72-125	%REC	1	21-Apr-2014 16:01
Surr: 4-Bromofluorobenzene	96.6			72-125	%REC	25	28-Apr-2014 16:45
Surr: Dibromofluoromethane	97.0			71-125	%REC	1	21-Apr-2014 16:01
Surr: Dibromofluoromethane	98.0			71-125	%REC	25	28-Apr-2014 16:45
Surr: Toluene-d8	96.7			75-125	%REC	1	21-Apr-2014 16:01
Surr: Toluene-d8	95.8			75-125	%REC	25	28-Apr-2014 16:45
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	0.0114		0.00100	0.00500	mg/L	1	06-May-2014 15:48
Barium	0.254		0.000900	0.00500	mg/L	1	06-May-2014 15:48
Calcium	214		0.134	1.00	mg/L	2	06-May-2014 01:19
Chromium	0.00252	J	0.00100	0.00500	mg/L	1	06-May-2014 15:48
Iron	7.64		0.0500	0.200	mg/L	1	06-May-2014 15:48
Lead	0.000856	J	0.000700	0.00500	mg/L	1	06-May-2014 15:48
Manganese	1.57		0.00250	0.00500	mg/L	1	06-May-2014 15:48
Potassium	0.456		0.0500	0.200	mg/L	1	06-May-2014 15:48
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 15:48
Sodium	198		0.100	0.400	mg/L	2	06-May-2014 01:19
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	2.36		0.0100	0.0500	mg/L	1	25-Apr-2014 14:51
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	25-Apr-2014 14:51
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,020		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	525		2.00	5.00	mg/L	10	05-May-2014 16:14
Fluoride	1.01		0.0500	0.100	mg/L	1	02-May-2014 05:22
Sulfate	235		1.00	2.50	mg/L	5	02-May-2014 00:31
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 22-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	1.3		0.021	0.051	mg/L	1	23-Apr-2014 17:30
Surr: 2-Fluorobiphenyl	120			60-135	%REC	1	23-Apr-2014 17:30
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	0.153	J	0.150	1.00	mg/L	5	03-May-2014 16:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-111-0414-D
Collection Date: 15-Apr-2014 10:45

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.0126		0.00100	0.00500	mg/L	1	15-May-2014 04:09
Barium	0.222		0.000900	0.00500	mg/L	1	15-May-2014 04:09
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:09
Iron	6.74		0.0780	0.200	mg/L	1	15-May-2014 04:09
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:09
Manganese	1.68		0.00250	0.00500	mg/L	1	15-May-2014 04:09
Selenium	0.00119	J	0.00100	0.00500	mg/L	1	15-May-2014 04:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-130-0414
 Collection Date: 15-Apr-2014 11:30

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 15:44
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 15:44
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	20-Apr-2014 15:44
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
2-Butanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 15:44
2-Hexanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 15:44
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 15:44
Acetone	U		0.0020	0.010	mg/L	1	20-Apr-2014 15:44
Benzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
Bromoform	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
Bromomethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
Carbon disulfide	U		0.00090	0.010	mg/L	1	20-Apr-2014 15:44
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
Chlorobenzene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 15:44
Chloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
Chloroform	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
Chloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
Ethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
m,p-Xylene	U		0.00060	0.010	mg/L	1	20-Apr-2014 15:44
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
Methylene chloride	U		0.0010	0.010	mg/L	1	20-Apr-2014 15:44
Naphthalene	U		0.00070	0.0050	mg/L	1	20-Apr-2014 15:44
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	20-Apr-2014 15:44
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
o-Xylene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
Styrene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
Toluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 15:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-130-0414
 Collection Date: 15-Apr-2014 11:30

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 15:44
Trichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 15:44
Vinyl chloride	U		0.00040	0.0020	mg/L	1	20-Apr-2014 15:44
Xylenes, Total	U		0.0015	0.015	mg/L	1	20-Apr-2014 15:44
Surr: 1,2-Dichloroethane-d4	100			70-125	%REC	1	20-Apr-2014 15:44
Surr: 4-Bromofluorobenzene	98.7			72-125	%REC	1	20-Apr-2014 15:44
Surr: Dibromofluoromethane	100			71-125	%REC	1	20-Apr-2014 15:44
Surr: Toluene-d8	96.4			75-125	%REC	1	20-Apr-2014 15:44
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	0.00474	J	0.00100	0.00500	mg/L	1	06-May-2014 15:53
Barium	0.0370		0.000900	0.00500	mg/L	1	06-May-2014 15:53
Calcium	321		0.134	1.00	mg/L	2	06-May-2014 01:23
Chromium	0.00626		0.00100	0.00500	mg/L	1	06-May-2014 15:53
Iron	2.84		0.0500	0.200	mg/L	1	06-May-2014 15:53
Lead	0.00398	J	0.000700	0.00500	mg/L	1	06-May-2014 15:53
Manganese	0.202		0.00250	0.00500	mg/L	1	06-May-2014 15:53
Potassium	1.34		0.0500	0.200	mg/L	1	06-May-2014 15:53
Selenium	0.00569		0.00100	0.00500	mg/L	1	06-May-2014 15:53
Sodium	284		0.100	0.400	mg/L	2	06-May-2014 01:23
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	25-Apr-2014 15:09
Surr: 4-Bromofluorobenzene	115			70-130	%REC	1	25-Apr-2014 15:09
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	3,080		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	316		1.00	2.50	mg/L	5	02-May-2014 00:46
Fluoride	0.533		0.0500	0.100	mg/L	1	02-May-2014 06:06
Sulfate	1,020		10.0	25.0	mg/L	50	05-May-2014 16:29
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 22-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.33		0.021	0.052	mg/L	1	23-Apr-2014 17:57
Surr: 2-Fluorobiphenyl	127			60-135	%REC	1	23-Apr-2014 17:57
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	0.975	J	0.150	1.00	mg/L	5	03-May-2014 16:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-130-0414-D
Collection Date: 15-Apr-2014 11:30

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.00434	J	0.00100	0.00500	mg/L	1	15-May-2014 04:14
Barium	0.0238		0.000900	0.00500	mg/L	1	15-May-2014 04:14
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:14
Iron	0.0912	J	0.0780	0.200	mg/L	1	15-May-2014 04:14
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:14
Manganese	0.130		0.00250	0.00500	mg/L	1	15-May-2014 04:14
Selenium	0.00713		0.00100	0.00500	mg/L	1	15-May-2014 04:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-52-0414
 Collection Date: 15-Apr-2014 12:10

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:05
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:05
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	20-Apr-2014 19:05
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
2-Butanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:05
2-Hexanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:05
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:05
Acetone	U		0.0020	0.010	mg/L	1	20-Apr-2014 19:05
Benzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
Bromoform	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
Bromomethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
Carbon disulfide	U		0.00090	0.010	mg/L	1	20-Apr-2014 19:05
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
Chlorobenzene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:05
Chloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
Chloroform	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
Chloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
Ethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
m,p-Xylene	U		0.00060	0.010	mg/L	1	20-Apr-2014 19:05
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
Methylene chloride	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:05
Naphthalene	U		0.00070	0.0050	mg/L	1	20-Apr-2014 19:05
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	20-Apr-2014 19:05
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
o-Xylene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
Styrene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
Toluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-52-0414
 Collection Date: 15-Apr-2014 12:10

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-13
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:05
Trichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:05
Vinyl chloride	U		0.00040	0.0020	mg/L	1	20-Apr-2014 19:05
Xylenes, Total	U		0.0015	0.015	mg/L	1	20-Apr-2014 19:05
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	20-Apr-2014 19:05
Surr: 4-Bromofluorobenzene	100			72-125	%REC	1	20-Apr-2014 19:05
Surr: Dibromofluoromethane	100			71-125	%REC	1	20-Apr-2014 19:05
Surr: Toluene-d8	96.7			75-125	%REC	1	20-Apr-2014 19:05
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014 Analyst: SKS			
Arsenic	0.00373	J	0.00100	0.00500	mg/L	1	06-May-2014 15:58
Barium	0.00923		0.000900	0.00500	mg/L	1	06-May-2014 15:58
Calcium	156		0.134	1.00	mg/L	2	06-May-2014 01:28
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 15:58
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 15:58
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 15:58
Manganese	0.0360		0.00250	0.00500	mg/L	1	06-May-2014 15:58
Nickel	0.00268	J	0.00100	0.00500	mg/L	1	06-May-2014 15:58
Potassium	0.204		0.0500	0.200	mg/L	1	06-May-2014 15:58
Selenium	0.00103	J	0.00100	0.00500	mg/L	1	06-May-2014 15:58
Sodium	257		0.100	0.400	mg/L	2	06-May-2014 01:28
Vanadium	0.0236		0.000900	0.00500	mg/L	1	06-May-2014 15:58
CYANIDE BY SW9012B		Method:SW9012		Prep:SW9010C Analyst: KKB			
Cyanide	U	H	0.00500	0.0200	mg/L	1	03-May-2014 10:00
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	0.0223	J	0.0100	0.0500	mg/L	1	25-Apr-2014 15:28
Surr: 4-Bromofluorobenzene	115			70-130	%REC	1	25-Apr-2014 15:28
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 02-May-2014 Analyst: JCJ			
Mercury	U		0.0000400	0.000200	mg/L	1	02-May-2014 17:34
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	2,580		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	223		1.00	2.50	mg/L	5	02-May-2014 01:00
Fluoride	1.57		0.0500	0.100	mg/L	1	02-May-2014 06:20
Sulfate	820		2.00	5.00	mg/L	10	05-May-2014 16:43
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 22-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	0.17		0.021	0.053	mg/L	1	23-Apr-2014 18:23
Surr: 2-Fluorobiphenyl	122			60-135	%REC	1	23-Apr-2014 18:23
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	1.19		0.150	1.00	mg/L	5	03-May-2014 17:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-52-0414-D
 Collection Date: 15-Apr-2014 12:10

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-14
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.00375	J	0.00100	0.00500	mg/L	1	15-May-2014 04:18
Barium	0.00869		0.000900	0.00500	mg/L	1	15-May-2014 04:18
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:18
Iron	U		0.0780	0.200	mg/L	1	15-May-2014 04:18
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:18
Manganese	0.0328		0.00250	0.00500	mg/L	1	15-May-2014 04:18
Nickel	0.00448	J	0.00100	0.00500	mg/L	1	15-May-2014 04:18
Selenium	0.00265	J	0.00100	0.00500	mg/L	1	15-May-2014 04:18
Vanadium	0.0256		0.000900	0.00500	mg/L	1	15-May-2014 04:18
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: DUP-7-0414
 Collection Date: 15-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-15
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:30
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:30
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	20-Apr-2014 19:30
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
2-Butanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:30
2-Hexanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:30
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:30
Acetone	U		0.0020	0.010	mg/L	1	20-Apr-2014 19:30
Benzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
Bromoform	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
Bromomethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
Carbon disulfide	U		0.00090	0.010	mg/L	1	20-Apr-2014 19:30
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
Chlorobenzene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:30
Chloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
Chloroform	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
Chloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
Ethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
m,p-Xylene	U		0.00060	0.010	mg/L	1	20-Apr-2014 19:30
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
Methylene chloride	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:30
Naphthalene	U		0.00070	0.0050	mg/L	1	20-Apr-2014 19:30
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	20-Apr-2014 19:30
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
o-Xylene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
Styrene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
Toluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: DUP-7-0414
 Collection Date: 15-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-15
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260		Analyst: PC			
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:30
Trichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:30
Vinyl chloride	U		0.00040	0.0020	mg/L	1	20-Apr-2014 19:30
Xylenes, Total	U		0.0015	0.015	mg/L	1	20-Apr-2014 19:30
Surr: 1,2-Dichloroethane-d4	100			70-125	%REC	1	20-Apr-2014 19:30
Surr: 4-Bromofluorobenzene	107			72-125	%REC	1	20-Apr-2014 19:30
Surr: Dibromofluoromethane	103			71-125	%REC	1	20-Apr-2014 19:30
Surr: Toluene-d8	98.9			75-125	%REC	1	20-Apr-2014 19:30
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014 Analyst: SKS			
Arsenic	0.00349	J	0.00100	0.00500	mg/L	1	06-May-2014 16:02
Barium	0.00988		0.000900	0.00500	mg/L	1	06-May-2014 16:02
Calcium	161		0.134	1.00	mg/L	2	06-May-2014 01:43
Chromium	0.00143	J	0.00100	0.00500	mg/L	1	06-May-2014 16:02
Iron	0.0709	J	0.0500	0.200	mg/L	1	06-May-2014 16:02
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 16:02
Manganese	0.0324		0.00250	0.00500	mg/L	1	06-May-2014 16:02
Nickel	0.00206	J	0.00100	0.00500	mg/L	1	06-May-2014 16:02
Potassium	0.186	J	0.0500	0.200	mg/L	1	06-May-2014 16:02
Selenium	0.00124	J	0.00100	0.00500	mg/L	1	06-May-2014 16:02
Sodium	218		0.100	0.400	mg/L	2	06-May-2014 01:43
Vanadium	0.0238		0.000900	0.00500	mg/L	1	06-May-2014 16:02
CYANIDE BY SW9012B		Method:SW9012		Prep:SW9010C Analyst: KKB			
Cyanide	U	H	0.00500	0.0200	mg/L	1	03-May-2014 10:00
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: DNR			
Gasoline Range Organics	0.0263	J	0.0100	0.0500	mg/L	1	25-Apr-2014 16:11
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	25-Apr-2014 16:11
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 02-May-2014 Analyst: JCJ			
Mercury	U		0.0000400	0.000200	mg/L	1	02-May-2014 17:36
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C		Analyst: KAH			
Total Dissolved Solids (Residue, Filterable)	2,510		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0		Method:E300		Analyst: JKP			
Chloride	225		1.00	2.50	mg/L	5	02-May-2014 01:15
Fluoride	1.51		0.0500	0.100	mg/L	1	02-May-2014 06:35
Sulfate	821		2.00	5.00	mg/L	10	05-May-2014 16:58
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 22-Apr-2014 Analyst: RPM			
TPH (Diesel Range)	0.33		0.021	0.053	mg/L	1	23-Apr-2014 19:42
Surr: 2-Fluorobiphenyl	100			60-135	%REC	1	23-Apr-2014 19:42
NITRATE/NITRITE BY E300.0		Method:E300		Analyst: JKP			
Nitrate/Nitrite (as N)	1.38		0.150	1.00	mg/L	5	03-May-2014 17:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: DUP-7-0414-D
 Collection Date: 15-Apr-2014 00:00

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-16
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.00352	J	0.00100	0.00500	mg/L	1	15-May-2014 04:23
Barium	0.00895		0.000900	0.00500	mg/L	1	15-May-2014 04:23
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:23
Iron	U		0.0780	0.200	mg/L	1	15-May-2014 04:23
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:23
Manganese	0.0339		0.00250	0.00500	mg/L	1	15-May-2014 04:23
Nickel	0.00416	J	0.00100	0.00500	mg/L	1	15-May-2014 04:23
Selenium	0.00225	J	0.00100	0.00500	mg/L	1	15-May-2014 04:23
Vanadium	0.0250		0.000900	0.00500	mg/L	1	15-May-2014 04:23
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-109-0414
 Collection Date: 15-Apr-2014 13:05

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-17
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 15:37
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
1,2,4-Trimethylbenzene	0.0027	J	0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 15:37
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	21-Apr-2014 15:37
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
2-Butanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 15:37
2-Hexanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 15:37
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 15:37
Acetone	U		0.0020	0.010	mg/L	1	21-Apr-2014 15:37
Benzene	0.31		0.0030	0.025	mg/L	5	22-Apr-2014 14:18
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
Bromoform	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
Bromomethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
Carbon disulfide	U		0.00090	0.010	mg/L	1	21-Apr-2014 15:37
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
Chlorobenzene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 15:37
Chloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
Chloroform	U		0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
Chloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
Ethylbenzene	0.050		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
Isopropylbenzene	0.011		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
m,p-Xylene	0.0059	J	0.00060	0.010	mg/L	1	21-Apr-2014 15:37
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
Methylene chloride	U		0.0010	0.010	mg/L	1	21-Apr-2014 15:37
Naphthalene	0.0036	J	0.00070	0.0050	mg/L	1	21-Apr-2014 15:37
n-Butylbenzene	0.0020	J	0.0010	0.0050	mg/L	1	21-Apr-2014 15:37
n-Propylbenzene	0.010		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
o-Xylene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
sec-Butylbenzene	0.0032	J	0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
Styrene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
Toluene	0.0045	J	0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 15:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-109-0414
 Collection Date: 15-Apr-2014 13:05

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-17
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 15:37
Trichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 15:37
Vinyl chloride	U		0.00040	0.0020	mg/L	1	21-Apr-2014 15:37
Xylenes, Total	0.0059	J	0.0015	0.015	mg/L	1	21-Apr-2014 15:37
Surr: 1,2-Dichloroethane-d4	98.3			70-125	%REC	1	21-Apr-2014 15:37
Surr: 1,2-Dichloroethane-d4	95.9			70-125	%REC	5	22-Apr-2014 14:18
Surr: 4-Bromofluorobenzene	103			72-125	%REC	1	21-Apr-2014 15:37
Surr: 4-Bromofluorobenzene	98.6			72-125	%REC	5	22-Apr-2014 14:18
Surr: Dibromofluoromethane	99.2			71-125	%REC	1	21-Apr-2014 15:37
Surr: Dibromofluoromethane	98.8			71-125	%REC	5	22-Apr-2014 14:18
Surr: Toluene-d8	98.6			75-125	%REC	1	21-Apr-2014 15:37
Surr: Toluene-d8	98.5			75-125	%REC	5	22-Apr-2014 14:18
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	0.0223		0.00100	0.00500	mg/L	1	06-May-2014 16:07
Barium	0.562		0.000900	0.00500	mg/L	1	06-May-2014 16:07
Calcium	92.9		0.0670	0.500	mg/L	1	06-May-2014 16:07
Chromium	0.00194	J	0.00100	0.00500	mg/L	1	06-May-2014 16:07
Iron	1.64		0.0500	0.200	mg/L	1	06-May-2014 16:07
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 16:07
Manganese	0.345		0.00250	0.00500	mg/L	1	06-May-2014 16:07
Potassium	0.634		0.0500	0.200	mg/L	1	06-May-2014 16:07
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 16:07
Sodium	465		1.00	4.00	mg/L	20	06-May-2014 15:06
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	2.02		0.0100	0.0500	mg/L	1	25-Apr-2014 16:53
Surr: 4-Bromofluorobenzene	127			70-130	%REC	1	25-Apr-2014 16:53
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,980		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	393		1.00	2.50	mg/L	5	02-May-2014 01:58
Fluoride	1.26		0.0500	0.100	mg/L	1	02-May-2014 06:49
Sulfate	237		1.00	2.50	mg/L	5	02-May-2014 01:58
TPH DRO/ORO BY SW8015C			Method:SW8015M			Prep:SW3511 / 22-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	2.7		0.020	0.051	mg/L	1	23-Apr-2014 20:08
Surr: 2-Fluorobiphenyl	119			60-135	%REC	1	23-Apr-2014 20:08
NITRATE/NITRITE BY E300.0			Method:E300			Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	03-May-2014 19:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-109-0414-D
Collection Date: 15-Apr-2014 13:05

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-18
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.0226		0.00100	0.00500	mg/L	1	15-May-2014 04:36
Barium	0.396		0.000900	0.00500	mg/L	1	15-May-2014 04:36
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:36
Iron	0.603		0.0780	0.200	mg/L	1	15-May-2014 04:36
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:36
Manganese	0.332		0.00250	0.00500	mg/L	1	15-May-2014 04:36
Selenium	0.00138	J	0.00100	0.00500	mg/L	1	15-May-2014 04:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-110-0414
 Collection Date: 15-Apr-2014 13:40

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-19
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 13:14
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
1,2,4-Trimethylbenzene	0.030		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 13:14
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	21-Apr-2014 13:14
1,3,5-Trimethylbenzene	0.0043	J	0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
2-Butanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 13:14
2-Hexanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 13:14
4-Isopropyltoluene	0.0017	J	0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 13:14
Acetone	U		0.0020	0.010	mg/L	1	21-Apr-2014 13:14
Benzene	0.081		0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
Bromoform	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
Bromomethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
Carbon disulfide	U		0.00090	0.010	mg/L	1	21-Apr-2014 13:14
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
Chlorobenzene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 13:14
Chloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
Chloroform	U		0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
Chloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
Ethylbenzene	0.070		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
Isopropylbenzene	0.021		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
m,p-Xylene	0.028		0.00060	0.010	mg/L	1	21-Apr-2014 13:14
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
Methylene chloride	U		0.0010	0.010	mg/L	1	21-Apr-2014 13:14
Naphthalene	0.013		0.00070	0.0050	mg/L	1	21-Apr-2014 13:14
n-Butylbenzene	0.0021	J	0.0010	0.0050	mg/L	1	21-Apr-2014 13:14
n-Propylbenzene	0.020		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
o-Xylene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
sec-Butylbenzene	0.0037	J	0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
Styrene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
Toluene	0.0023	J	0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 13:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: MW-110-0414
 Collection Date: 15-Apr-2014 13:40

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-19
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 13:14
Trichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 13:14
Vinyl chloride	U		0.00040	0.0020	mg/L	1	21-Apr-2014 13:14
Xylenes, Total	0.028		0.0015	0.015	mg/L	1	21-Apr-2014 13:14
Surr: 1,2-Dichloroethane-d4	97.3			70-125	%REC	1	21-Apr-2014 13:14
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	21-Apr-2014 13:14
Surr: Dibromofluoromethane	99.2			71-125	%REC	1	21-Apr-2014 13:14
Surr: Toluene-d8	98.6			75-125	%REC	1	21-Apr-2014 13:14
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	0.0281		0.00100	0.00500	mg/L	1	06-May-2014 16:12
Barium	0.0599		0.000900	0.00500	mg/L	1	06-May-2014 16:12
Calcium	79.0		0.0670	0.500	mg/L	1	06-May-2014 16:12
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 16:12
Iron	1.32		0.0500	0.200	mg/L	1	06-May-2014 16:12
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 16:12
Manganese	1.44		0.00250	0.00500	mg/L	1	06-May-2014 16:12
Potassium	0.129	J	0.0500	0.200	mg/L	1	06-May-2014 16:12
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 16:12
Sodium	249		0.100	0.400	mg/L	2	06-May-2014 01:53
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	2.05		0.0100	0.0500	mg/L	1	25-Apr-2014 17:12
Surr: 4-Bromofluorobenzene	123			70-130	%REC	1	25-Apr-2014 17:12
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,260		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	92.4		1.00	2.50	mg/L	5	02-May-2014 02:13
Fluoride	1.25		0.0500	0.100	mg/L	1	02-May-2014 07:04
Sulfate	364		1.00	2.50	mg/L	5	02-May-2014 02:13
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 22-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	1.2		0.021	0.051	mg/L	1	23-Apr-2014 20:34
Surr: 2-Fluorobiphenyl	120			60-135	%REC	1	23-Apr-2014 20:34
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	03-May-2014 19:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: MW-110-0414-D
Collection Date: 15-Apr-2014 13:40

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.0307		0.00100	0.00500	mg/L	1	15-May-2014 04:40
Barium	0.0633		0.000900	0.00500	mg/L	1	15-May-2014 04:40
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:40
Iron	1.08		0.0780	0.200	mg/L	1	15-May-2014 04:40
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:40
Manganese	1.60		0.00250	0.00500	mg/L	1	15-May-2014 04:40
Selenium	0.00133	J	0.00100	0.00500	mg/L	1	15-May-2014 04:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: KWB-13-0414
 Collection Date: 15-Apr-2014 14:15

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-21
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:55
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:55
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	20-Apr-2014 19:55
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
2-Butanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:55
2-Hexanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:55
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:55
Acetone	U		0.0020	0.010	mg/L	1	20-Apr-2014 19:55
Benzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
Bromoform	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
Bromomethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
Carbon disulfide	U		0.00090	0.010	mg/L	1	20-Apr-2014 19:55
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
Chlorobenzene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:55
Chloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
Chloroform	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
Chloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
Ethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
m,p-Xylene	U		0.00060	0.010	mg/L	1	20-Apr-2014 19:55
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
Methylene chloride	U		0.0010	0.010	mg/L	1	20-Apr-2014 19:55
Naphthalene	U		0.00070	0.0050	mg/L	1	20-Apr-2014 19:55
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	20-Apr-2014 19:55
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
o-Xylene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
Styrene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
Toluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 19:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: KWB-13-0414
 Collection Date: 15-Apr-2014 14:15

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-21
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 19:55
Trichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 19:55
Vinyl chloride	U		0.00040	0.0020	mg/L	1	20-Apr-2014 19:55
Xylenes, Total	U		0.0015	0.015	mg/L	1	20-Apr-2014 19:55
Surr: 1,2-Dichloroethane-d4	103			70-125	%REC	1	20-Apr-2014 19:55
Surr: 4-Bromofluorobenzene	95.4			72-125	%REC	1	20-Apr-2014 19:55
Surr: Dibromofluoromethane	104			71-125	%REC	1	20-Apr-2014 19:55
Surr: Toluene-d8	95.6			75-125	%REC	1	20-Apr-2014 19:55
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	0.00259	J	0.00100	0.00500	mg/L	1	06-May-2014 16:17
Barium	0.0145		0.000900	0.00500	mg/L	1	06-May-2014 16:17
Calcium	418		1.34	10.0	mg/L	20	06-May-2014 15:10
Chromium	0.00121	J	0.00100	0.00500	mg/L	1	06-May-2014 16:17
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 16:17
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 16:17
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 16:17
Nickel	U		0.00100	0.00500	mg/L	1	06-May-2014 16:17
Potassium	0.724		0.0500	0.200	mg/L	1	06-May-2014 16:17
Selenium	0.0126		0.00100	0.00500	mg/L	1	06-May-2014 16:17
Sodium	143		1.00	4.00	mg/L	20	06-May-2014 15:10
Vanadium	0.0172		0.000900	0.00500	mg/L	1	06-May-2014 16:17
CYANIDE BY SW9012B		Method:SW9012				Prep:SW9010C Analyst: KKB	
Cyanide	U	H	0.00500	0.0200	mg/L	1	03-May-2014 10:00
MERCURY BY SW7470A		Method:SW7470				Prep:SW7470 / 02-May-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	02-May-2014 17:38
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	3,750		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	158		1.00	2.50	mg/L	5	02-May-2014 02:27
Fluoride	0.580		0.0500	0.100	mg/L	1	02-May-2014 08:02
Sulfate	1,820		10.0	25.0	mg/L	50	05-May-2014 17:12
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 22-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	23-Apr-2014 21:00
Surr: 2-Fluorobiphenyl	127			60-135	%REC	1	23-Apr-2014 21:00
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	14.6		0.150	1.00	mg/L	5	03-May-2014 19:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: KWB-13-0414-D
 Collection Date: 15-Apr-2014 14:15

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-22
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.00276	J	0.00100	0.00500	mg/L	1	15-May-2014 04:45
Barium	0.0156		0.000900	0.00500	mg/L	1	15-May-2014 04:45
Chromium	0.00107	J	0.00100	0.00500	mg/L	1	15-May-2014 04:45
Iron	U		0.0780	0.200	mg/L	1	15-May-2014 04:45
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:45
Manganese	U		0.00250	0.00500	mg/L	1	15-May-2014 04:45
Nickel	U		0.00100	0.00500	mg/L	1	15-May-2014 04:45
Selenium	0.0136		0.00100	0.00500	mg/L	1	15-May-2014 04:45
Vanadium	0.0188		0.000900	0.00500	mg/L	1	15-May-2014 04:45
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: EB-10-0414
 Collection Date: 15-Apr-2014 16:00

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-23
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	19-Apr-2014 14:38
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	19-Apr-2014 14:38
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	19-Apr-2014 14:38
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
2-Butanone	0.020		0.0010	0.010	mg/L	1	19-Apr-2014 14:38
2-Hexanone	U		0.0010	0.010	mg/L	1	19-Apr-2014 14:38
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	19-Apr-2014 14:38
Acetone	0.013		0.0020	0.010	mg/L	1	19-Apr-2014 14:38
Benzene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
Bromoform	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
Bromomethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
Carbon disulfide	U		0.00090	0.010	mg/L	1	19-Apr-2014 14:38
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
Chlorobenzene	U		0.00040	0.0050	mg/L	1	19-Apr-2014 14:38
Chloroethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
Chloroform	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
Chloromethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
Ethylbenzene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
m,p-Xylene	U		0.00060	0.010	mg/L	1	19-Apr-2014 14:38
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
Methylene chloride	U		0.0010	0.010	mg/L	1	19-Apr-2014 14:38
Naphthalene	U		0.00070	0.0050	mg/L	1	19-Apr-2014 14:38
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	19-Apr-2014 14:38
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
o-Xylene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
Styrene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
Toluene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	19-Apr-2014 14:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: EB-10-0414
 Collection Date: 15-Apr-2014 16:00

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-23
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	19-Apr-2014 14:38
Trichloroethene	U		0.00050	0.0050	mg/L	1	19-Apr-2014 14:38
Vinyl chloride	U		0.00040	0.0020	mg/L	1	19-Apr-2014 14:38
Xylenes, Total	U		0.0015	0.015	mg/L	1	19-Apr-2014 14:38
Surr: 1,2-Dichloroethane-d4	97.8			70-125	%REC	1	19-Apr-2014 14:38
Surr: 4-Bromofluorobenzene	98.8			72-125	%REC	1	19-Apr-2014 14:38
Surr: Dibromofluoromethane	101			71-125	%REC	1	19-Apr-2014 14:38
Surr: Toluene-d8	95.6			75-125	%REC	1	19-Apr-2014 14:38
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	U		0.00100	0.00500	mg/L	1	06-May-2014 16:21
Barium	U		0.000900	0.00500	mg/L	1	06-May-2014 16:21
Calcium	U		0.0670	0.500	mg/L	1	06-May-2014 16:21
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 16:21
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 16:21
Lead	U		0.000700	0.00500	mg/L	1	06-May-2014 16:21
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 16:21
Nickel	U		0.00100	0.00500	mg/L	1	06-May-2014 16:21
Potassium	U		0.0500	0.200	mg/L	1	06-May-2014 16:21
Selenium	U		0.00100	0.00500	mg/L	1	06-May-2014 16:21
Sodium	U		0.0500	0.200	mg/L	1	06-May-2014 16:21
Vanadium	U		0.000900	0.00500	mg/L	1	06-May-2014 16:21
CYANIDE BY SW9012B		Method:SW9012				Prep:SW9010C Analyst: KKB	
Cyanide	U	H	0.00500	0.0200	mg/L	1	03-May-2014 10:00
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	25-Apr-2014 17:30
Surr: 4-Bromofluorobenzene	115			70-130	%REC	1	25-Apr-2014 17:30
MERCURY BY SW7470A		Method:SW7470				Prep:SW7470 / 02-May-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	02-May-2014 17:39
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	U		5.00	10.0	mg/L	1	22-Apr-2014 18:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	0.438	J	0.200	0.500	mg/L	1	02-May-2014 02:42
Fluoride	U		0.0500	0.100	mg/L	1	02-May-2014 02:42
Sulfate	U		0.200	0.500	mg/L	1	02-May-2014 02:42
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 22-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	0.061		0.021	0.052	mg/L	1	23-Apr-2014 21:26
Surr: 2-Fluorobiphenyl	113			60-135	%REC	1	23-Apr-2014 21:26
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	03-May-2014 20:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: EB-10-0414-D
 Collection Date: 15-Apr-2014 16:00

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-24
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	15-May-2014 04:49
Barium	U		0.000900	0.00500	mg/L	1	15-May-2014 04:49
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:49
Iron	U		0.0780	0.200	mg/L	1	15-May-2014 04:49
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:49
Manganese	U		0.00250	0.00500	mg/L	1	15-May-2014 04:49
Nickel	U		0.00100	0.00500	mg/L	1	15-May-2014 04:49
Selenium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:49
Vanadium	U		0.000900	0.00500	mg/L	1	15-May-2014 04:49
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: KWB-11B-0414
 Collection Date: 16-Apr-2014 08:35

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-25
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 12:50
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
1,2,4-Trimethylbenzene	0.23		0.0025	0.025	mg/L	5	21-Apr-2014 15:13
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	21-Apr-2014 12:50
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	21-Apr-2014 12:50
1,3,5-Trimethylbenzene	0.0046	J	0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
2-Butanone	0.0053	J	0.0010	0.010	mg/L	1	21-Apr-2014 12:50
2-Hexanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 12:50
4-Isopropyltoluene	0.0065		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	21-Apr-2014 12:50
Acetone	U		0.0020	0.010	mg/L	1	21-Apr-2014 12:50
Benzene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
Bromoform	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
Bromomethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
Carbon disulfide	U		0.00090	0.010	mg/L	1	21-Apr-2014 12:50
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
Chlorobenzene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 12:50
Chloroethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
Chloroform	U		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
Chloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
Ethylbenzene	0.020		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
Isopropylbenzene	0.031		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
m,p-Xylene	0.0043	J	0.00060	0.010	mg/L	1	21-Apr-2014 12:50
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
Methylene chloride	U		0.0010	0.010	mg/L	1	21-Apr-2014 12:50
Naphthalene	0.011		0.00070	0.0050	mg/L	1	21-Apr-2014 12:50
n-Butylbenzene	0.017		0.0010	0.0050	mg/L	1	21-Apr-2014 12:50
n-Propylbenzene	0.046		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
o-Xylene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
sec-Butylbenzene	0.014		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
Styrene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
Toluene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	21-Apr-2014 12:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: KWB-11B-0414
 Collection Date: 16-Apr-2014 08:35

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-25
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C			Method:SW8260			Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	21-Apr-2014 12:50
Trichloroethene	U		0.00050	0.0050	mg/L	1	21-Apr-2014 12:50
Vinyl chloride	U		0.00040	0.0020	mg/L	1	21-Apr-2014 12:50
Xylenes, Total	0.0043	J	0.0015	0.015	mg/L	1	21-Apr-2014 12:50
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	5	21-Apr-2014 15:13
Surr: 1,2-Dichloroethane-d4	97.3			70-125	%REC	1	21-Apr-2014 12:50
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	21-Apr-2014 12:50
Surr: 4-Bromofluorobenzene	102			72-125	%REC	5	21-Apr-2014 15:13
Surr: Dibromofluoromethane	98.4			71-125	%REC	5	21-Apr-2014 15:13
Surr: Dibromofluoromethane	99.4			71-125	%REC	1	21-Apr-2014 12:50
Surr: Toluene-d8	97.8			75-125	%REC	1	21-Apr-2014 12:50
Surr: Toluene-d8	98.3			75-125	%REC	5	21-Apr-2014 15:13
ICP-MS METALS BY SW6020A			Method:SW6020			Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	0.00157	J	0.00100	0.00500	mg/L	1	06-May-2014 16:26
Barium	0.0117		0.000900	0.00500	mg/L	1	06-May-2014 16:26
Calcium	396		1.34	10.0	mg/L	20	06-May-2014 15:15
Chromium	U		0.00100	0.00500	mg/L	1	06-May-2014 16:26
Iron	U		0.0500	0.200	mg/L	1	06-May-2014 16:26
Lead	0.000903	J	0.000700	0.00500	mg/L	1	06-May-2014 16:26
Manganese	U		0.00250	0.00500	mg/L	1	06-May-2014 16:26
Nickel	U		0.00100	0.00500	mg/L	1	06-May-2014 16:26
Potassium	2.15		0.0500	0.200	mg/L	1	06-May-2014 16:26
Selenium	0.00848		0.00100	0.00500	mg/L	1	06-May-2014 16:26
Sodium	77.4		0.0500	0.200	mg/L	1	06-May-2014 16:26
Vanadium	0.00741		0.000900	0.00500	mg/L	1	06-May-2014 16:26
CYANIDE BY SW9012B			Method:SW9012			Prep:SW9010C Analyst: KKB	
Cyanide	U	H	0.00500	0.0200	mg/L	1	03-May-2014 10:00
GASOLINE RANGE ORGANICS BY SW8015C			Method:SW8015			Analyst: DNR	
Gasoline Range Organics	2.74		0.0100	0.0500	mg/L	1	25-Apr-2014 17:48
Surr: 4-Bromofluorobenzene	117			70-130	%REC	1	25-Apr-2014 17:48
MERCURY BY SW7470A			Method:SW7470			Prep:SW7470 / 02-May-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	02-May-2014 17:41
TOTAL DISSOLVED SOLIDS BY SM2540C			Method:M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,480		5.00	10.0	mg/L	1	23-Apr-2014 18:50
ANIONS BY E300.0			Method:E300			Analyst: JKP	
Chloride	291		1.00	2.50	mg/L	5	02-May-2014 02:56
Fluoride	0.291		0.0500	0.100	mg/L	1	02-May-2014 08:31
Sulfate	1,250		10.0	25.0	mg/L	50	05-May-2014 17:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: KWB-11B-0414
Collection Date: 16-Apr-2014 08:35

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-25
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 22-Apr-2014		Analyst: RPM	
TPH (Diesel Range)	3.2		0.10	0.26	mg/L	5	29-Apr-2014 10:32
Surr: 2-Fluorobiphenyl	92.9			60-135	%REC	5	29-Apr-2014 10:32
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	2.25		0.150	1.00	mg/L	5	03-May-2014 20:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: KWB-11B-0414-D
 Collection Date: 16-Apr-2014 08:35

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-26
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	0.00165	J	0.00100	0.00500	mg/L	1	15-May-2014 04:54
Barium	0.0142		0.000900	0.00500	mg/L	1	15-May-2014 04:54
Chromium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:54
Iron	U		0.0780	0.200	mg/L	1	15-May-2014 04:54
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:54
Manganese	U		0.00250	0.00500	mg/L	1	15-May-2014 04:54
Nickel	U		0.00100	0.00500	mg/L	1	15-May-2014 04:54
Selenium	0.00946		0.00100	0.00500	mg/L	1	15-May-2014 04:54
Vanadium	0.00790		0.000900	0.00500	mg/L	1	15-May-2014 04:54
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 13:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: EB-11-0414
 Collection Date: 16-Apr-2014 10:30

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-29
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	Method:SW8260						Analyst: PC
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 18:15
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 18:15
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	20-Apr-2014 18:15
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
2-Butanone	0.017		0.0010	0.010	mg/L	1	20-Apr-2014 18:15
2-Hexanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 18:15
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 18:15
Acetone	0.015		0.0020	0.010	mg/L	1	20-Apr-2014 18:15
Benzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
Bromoform	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
Bromomethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
Carbon disulfide	U		0.00090	0.010	mg/L	1	20-Apr-2014 18:15
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
Chlorobenzene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 18:15
Chloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
Chloroform	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
Chloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
Ethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
m,p-Xylene	U		0.00060	0.010	mg/L	1	20-Apr-2014 18:15
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
Methylene chloride	U		0.0010	0.010	mg/L	1	20-Apr-2014 18:15
Naphthalene	U		0.00070	0.0050	mg/L	1	20-Apr-2014 18:15
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	20-Apr-2014 18:15
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
o-Xylene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
Styrene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
Toluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 18:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: EB-11-0414
 Collection Date: 16-Apr-2014 10:30

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-29
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:15
Trichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:15
Vinyl chloride	U		0.00040	0.0020	mg/L	1	20-Apr-2014 18:15
Xylenes, Total	U		0.0015	0.015	mg/L	1	20-Apr-2014 18:15
Surr: 1,2-Dichloroethane-d4	101			70-125	%REC	1	20-Apr-2014 18:15
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	20-Apr-2014 18:15
Surr: Dibromofluoromethane	105			71-125	%REC	1	20-Apr-2014 18:15
Surr: Toluene-d8	98.6			75-125	%REC	1	20-Apr-2014 18:15
ICP-MS METALS BY SW6020A		Method:SW6020				Prep:SW3010A / 01-May-2014 Analyst: SKS	
Arsenic	U		0.00100	0.00500	mg/L	1	07-May-2014 22:32
Barium	U		0.000900	0.00500	mg/L	1	07-May-2014 22:32
Calcium	U		0.0670	0.500	mg/L	1	07-May-2014 22:32
Chromium	U		0.00100	0.00500	mg/L	1	07-May-2014 22:32
Iron	U		0.0500	0.200	mg/L	1	07-May-2014 22:32
Lead	U		0.000700	0.00500	mg/L	1	07-May-2014 22:32
Manganese	U		0.00250	0.00500	mg/L	1	07-May-2014 22:32
Nickel	U		0.00100	0.00500	mg/L	1	07-May-2014 22:32
Potassium	0.0568	J	0.0500	0.200	mg/L	1	07-May-2014 22:32
Selenium	0.00109	J	0.00100	0.00500	mg/L	1	07-May-2014 22:32
Sodium	0.246		0.0500	0.200	mg/L	1	07-May-2014 22:32
Vanadium	U		0.000900	0.00500	mg/L	1	07-May-2014 22:32
CYANIDE BY SW9012B		Method:SW9012				Prep:SW9010C Analyst: KKB	
Cyanide	U	H	0.00500	0.0200	mg/L	1	03-May-2014 10:00
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: DNR	
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	25-Apr-2014 18:25
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	25-Apr-2014 18:25
MERCURY BY SW7470A		Method:SW7470				Prep:SW7470 / 02-May-2014 Analyst: JCJ	
Mercury	U		0.0000400	0.000200	mg/L	1	02-May-2014 17:43
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	6.00	J	5.00	10.0	mg/L	1	23-Apr-2014 18:50
ANIONS BY E300.0		Method:E300				Analyst: JKP	
Chloride	U		1.00	2.50	mg/L	5	02-May-2014 03:11
Fluoride	U		0.250	0.500	mg/L	5	02-May-2014 03:11
Sulfate	1.14	J	1.00	2.50	mg/L	5	02-May-2014 03:11
TPH DRO/ORO BY SW8015C		Method:SW8015M				Prep:SW3511 / 22-Apr-2014 Analyst: RPM	
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	23-Apr-2014 22:44
Surr: 2-Fluorobiphenyl	128			60-135	%REC	1	23-Apr-2014 22:44
NITRATE/NITRITE BY E300.0		Method:E300				Analyst: JKP	
Nitrate/Nitrite (as N)	U		0.150	1.00	mg/L	5	03-May-2014 22:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: EB-11-0414-D
 Collection Date: 16-Apr-2014 10:30

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-30
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 01-May-2014		Analyst: ALR	
Arsenic	U		0.00100	0.00500	mg/L	1	15-May-2014 04:58
Barium	U		0.000900	0.00500	mg/L	1	15-May-2014 04:58
Chromium	0.00635		0.00100	0.00500	mg/L	1	15-May-2014 04:58
Iron	U		0.0780	0.200	mg/L	1	15-May-2014 04:58
Lead	U		0.000700	0.00500	mg/L	1	15-May-2014 04:58
Manganese	U		0.00250	0.00500	mg/L	1	15-May-2014 04:58
Nickel	0.00341	J	0.00100	0.00500	mg/L	1	15-May-2014 04:58
Selenium	U		0.00100	0.00500	mg/L	1	15-May-2014 04:58
Vanadium	U		0.000900	0.00500	mg/L	1	15-May-2014 04:58
DISSOLVED MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 29-Apr-2014		Analyst: JCJ	
Mercury	U		0.0000420	0.000200	mg/L	1	29-Apr-2014 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 Project: SA Artesia Refinery Sitewide GW
 Sample ID: EBlank 032814-11
 Collection Date: 16-Apr-2014 13:00

ANALYTICAL REPORT

WorkOrder:HS14040801
 Lab ID:HS14040801-31
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 18:40
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
1,2,4-Trimethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	20-Apr-2014 18:40
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	20-Apr-2014 18:40
1,3,5-Trimethylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
2-Butanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 18:40
2-Hexanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 18:40
4-Isopropyltoluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	20-Apr-2014 18:40
Acetone	U		0.0020	0.010	mg/L	1	20-Apr-2014 18:40
Benzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
Bromoform	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
Bromomethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
Carbon disulfide	U		0.00090	0.010	mg/L	1	20-Apr-2014 18:40
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
Chlorobenzene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 18:40
Chloroethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
Chloroform	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
Chloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
cis-1,2-Dichloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
Ethylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
Isopropylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
m,p-Xylene	U		0.00060	0.010	mg/L	1	20-Apr-2014 18:40
Methyl tert-butyl ether	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
Methylene chloride	U		0.0010	0.010	mg/L	1	20-Apr-2014 18:40
Naphthalene	U		0.00070	0.0050	mg/L	1	20-Apr-2014 18:40
n-Butylbenzene	U		0.0010	0.0050	mg/L	1	20-Apr-2014 18:40
n-Propylbenzene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
o-Xylene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
sec-Butylbenzene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
Styrene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
Toluene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	20-Apr-2014 18:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
Sample ID: EBlank 032814-11
Collection Date: 16-Apr-2014 13:00

ANALYTICAL REPORT

WorkOrder:HS14040801
Lab ID:HS14040801-31
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	20-Apr-2014 18:40
Trichloroethene	U		0.00050	0.0050	mg/L	1	20-Apr-2014 18:40
Vinyl chloride	U		0.00040	0.0020	mg/L	1	20-Apr-2014 18:40
Xylenes, Total	U		0.0015	0.015	mg/L	1	20-Apr-2014 18:40
Surr: 1,2-Dichloroethane-d4	102			70-125	%REC	1	20-Apr-2014 18:40
Surr: 4-Bromofluorobenzene	99.1			72-125	%REC	1	20-Apr-2014 18:40
Surr: Dibromofluoromethane	102			71-125	%REC	1	20-Apr-2014 18:40
Surr: Toluene-d8	96.9			75-125	%REC	1	20-Apr-2014 18:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
WorkOrder: HS14040801

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81043	Test Name : TPH DRO/ORO BY SW8015C			Matrix: Water		
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15		22 Apr 2014 09:00	23 Apr 2014 15:44	1
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45		22 Apr 2014 09:00	23 Apr 2014 16:10	1
HS14040801-05	MW-127-0414	15 Apr 2014 09:15		22 Apr 2014 09:00	23 Apr 2014 16:37	1
HS14040801-07	MW-131-0414	15 Apr 2014 10:00		22 Apr 2014 09:00	29 Apr 2014 10:05	5
HS14040801-09	MW-111-0414	15 Apr 2014 10:45		22 Apr 2014 09:00	23 Apr 2014 17:30	1
HS14040801-11	MW-130-0414	15 Apr 2014 11:30		22 Apr 2014 09:00	23 Apr 2014 17:57	1
HS14040801-13	MW-52-0414	15 Apr 2014 12:10		22 Apr 2014 09:00	23 Apr 2014 18:23	1
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00		22 Apr 2014 09:00	23 Apr 2014 19:42	1
HS14040801-17	MW-109-0414	15 Apr 2014 13:05		22 Apr 2014 09:00	23 Apr 2014 20:08	1
HS14040801-19	MW-110-0414	15 Apr 2014 13:40		22 Apr 2014 09:00	23 Apr 2014 20:34	1
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15		22 Apr 2014 09:00	23 Apr 2014 21:00	1
HS14040801-23	EB-10-0414	15 Apr 2014 16:00		22 Apr 2014 09:00	23 Apr 2014 21:26	1
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35		22 Apr 2014 09:00	29 Apr 2014 10:32	5
HS14040801-29	EB-11-0414	16 Apr 2014 10:30		22 Apr 2014 09:00	23 Apr 2014 22:44	1
Batch ID 81307	Test Name : DISSOLVED MERCURY BY SW7470A			Matrix: Water		
HS14040801-14	MW-52-0414-D	15 Apr 2014 12:10		29 Apr 2014 09:00	29 Apr 2014 13:22	1
HS14040801-16	DUP-7-0414-D	15 Apr 2014 00:00		29 Apr 2014 09:00	29 Apr 2014 13:53	1
HS14040801-22	KWB-13-0414-D	15 Apr 2014 14:15		29 Apr 2014 09:00	29 Apr 2014 13:55	1
HS14040801-24	EB-10-0414-D	15 Apr 2014 16:00		29 Apr 2014 09:00	29 Apr 2014 13:57	1
HS14040801-26	KWB-11B-0414-D	16 Apr 2014 08:35		29 Apr 2014 09:00	29 Apr 2014 13:58	1
HS14040801-30	EB-11-0414-D	16 Apr 2014 10:30		29 Apr 2014 09:00	29 Apr 2014 14:00	1

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
WorkOrder: HS14040801

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81474	Test Name : ICP-MS METALS BY SW6020A			Matrix: Water		
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15		01 May 2014 09:40	06 May 2014 15:20	1
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15		01 May 2014 09:40	06 May 2014 15:01	20
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45		01 May 2014 09:40	06 May 2014 15:25	1
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45		01 May 2014 09:40	06 May 2014 01:04	2
HS14040801-05	MW-127-0414	15 Apr 2014 09:15		01 May 2014 09:40	06 May 2014 15:29	1
HS14040801-05	MW-127-0414	15 Apr 2014 09:15		01 May 2014 09:40	06 May 2014 01:09	2
HS14040801-07	MW-131-0414	15 Apr 2014 10:00		01 May 2014 09:40	06 May 2014 15:34	1
HS14040801-07	MW-131-0414	15 Apr 2014 10:00		01 May 2014 09:40	06 May 2014 01:14	2
HS14040801-09	MW-111-0414	15 Apr 2014 10:45		01 May 2014 09:40	06 May 2014 15:48	1
HS14040801-09	MW-111-0414	15 Apr 2014 10:45		01 May 2014 09:40	06 May 2014 01:19	2
HS14040801-11	MW-130-0414	15 Apr 2014 11:30		01 May 2014 09:40	06 May 2014 15:53	1
HS14040801-11	MW-130-0414	15 Apr 2014 11:30		01 May 2014 09:40	06 May 2014 01:23	2
HS14040801-13	MW-52-0414	15 Apr 2014 12:10		01 May 2014 09:40	06 May 2014 15:58	1
HS14040801-13	MW-52-0414	15 Apr 2014 12:10		01 May 2014 09:40	06 May 2014 01:28	2
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00		01 May 2014 09:40	06 May 2014 16:02	1
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00		01 May 2014 09:40	06 May 2014 01:43	2
HS14040801-17	MW-109-0414	15 Apr 2014 13:05		01 May 2014 09:40	06 May 2014 16:07	1
HS14040801-17	MW-109-0414	15 Apr 2014 13:05		01 May 2014 09:40	06 May 2014 15:06	20
HS14040801-19	MW-110-0414	15 Apr 2014 13:40		01 May 2014 09:40	06 May 2014 16:12	1
HS14040801-19	MW-110-0414	15 Apr 2014 13:40		01 May 2014 09:40	06 May 2014 01:53	2
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15		01 May 2014 09:40	06 May 2014 16:17	1
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15		01 May 2014 09:40	06 May 2014 15:10	20
HS14040801-23	EB-10-0414	15 Apr 2014 16:00		01 May 2014 09:40	06 May 2014 16:21	1
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35		01 May 2014 09:40	06 May 2014 16:26	1
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35		01 May 2014 09:40	06 May 2014 15:15	20
HS14040801-29	EB-11-0414	16 Apr 2014 10:30		01 May 2014 09:40	07 May 2014 22:32	1

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
WorkOrder: HS14040801

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 81476 Test Name : DISSOLVED METALS BY SW6020A Matrix: Water						
HS14040801-02	MW-126A-0414-D	15 Apr 2014 08:15		01 May 2014 10:00	15 May 2014 03:43	1
HS14040801-04	MW-126B-0414-D	15 Apr 2014 08:45		01 May 2014 10:00	15 May 2014 03:47	1
HS14040801-06	MW-127-0414-D	15 Apr 2014 09:15		01 May 2014 10:00	15 May 2014 04:01	1
HS14040801-08	MW-131-0414-D	15 Apr 2014 10:00		01 May 2014 10:00	15 May 2014 16:53	10
HS14040801-08	MW-131-0414-D	15 Apr 2014 10:00		01 May 2014 10:00	15 May 2014 04:05	1
HS14040801-10	MW-111-0414-D	15 Apr 2014 10:45		01 May 2014 10:00	15 May 2014 04:09	1
HS14040801-12	MW-130-0414-D	15 Apr 2014 11:30		01 May 2014 10:00	15 May 2014 04:14	1
HS14040801-14	MW-52-0414-D	15 Apr 2014 12:10		01 May 2014 10:00	15 May 2014 04:18	1
HS14040801-16	DUP-7-0414-D	15 Apr 2014 00:00		01 May 2014 10:00	15 May 2014 04:23	1
HS14040801-18	MW-109-0414-D	15 Apr 2014 13:05		01 May 2014 10:00	15 May 2014 04:36	1
HS14040801-20	MW-110-0414-D	15 Apr 2014 13:40		01 May 2014 10:00	15 May 2014 04:40	1
HS14040801-22	KWB-13-0414-D	15 Apr 2014 14:15		01 May 2014 10:00	15 May 2014 04:45	1
HS14040801-24	EB-10-0414-D	15 Apr 2014 16:00		01 May 2014 10:00	15 May 2014 04:49	1
HS14040801-26	KWB-11B-0414-D	16 Apr 2014 08:35		01 May 2014 10:00	15 May 2014 04:54	1
HS14040801-30	EB-11-0414-D	16 Apr 2014 10:30		01 May 2014 10:00	15 May 2014 04:58	1
Batch ID 81501 Test Name : MERCURY BY SW7470A Matrix: Water						
HS14040801-13	MW-52-0414	15 Apr 2014 12:10		02 May 2014 11:00	02 May 2014 17:34	1
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00		02 May 2014 11:00	02 May 2014 17:36	1
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15		02 May 2014 11:00	02 May 2014 17:38	1
HS14040801-23	EB-10-0414	15 Apr 2014 16:00		02 May 2014 11:00	02 May 2014 17:39	1
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35		02 May 2014 11:00	02 May 2014 17:41	1
HS14040801-29	EB-11-0414	16 Apr 2014 10:30		02 May 2014 11:00	02 May 2014 17:43	1
Batch ID R232176 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15			19 Apr 2014 12:58	1
HS14040801-23	EB-10-0414	15 Apr 2014 16:00			19 Apr 2014 14:38	1
Batch ID R232214 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040801-11	MW-130-0414	15 Apr 2014 11:30			20 Apr 2014 15:44	1
HS14040801-13	MW-52-0414	15 Apr 2014 12:10			20 Apr 2014 19:05	1
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00			20 Apr 2014 19:30	1
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15			20 Apr 2014 19:55	1
HS14040801-29	EB-11-0414	16 Apr 2014 10:30			20 Apr 2014 18:15	1
HS14040801-31	EBlank 032814-11	16 Apr 2014 13:00			20 Apr 2014 18:40	1

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
WorkOrder: HS14040801

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R232323 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040801-05	MW-127-0414	15 Apr 2014 09:15			21 Apr 2014 16:49	1
HS14040801-07	MW-131-0414	15 Apr 2014 10:00			21 Apr 2014 16:25	1
HS14040801-09	MW-111-0414	15 Apr 2014 10:45			21 Apr 2014 16:01	1
HS14040801-17	MW-109-0414	15 Apr 2014 13:05			21 Apr 2014 15:37	1
HS14040801-19	MW-110-0414	15 Apr 2014 13:40			21 Apr 2014 13:14	1
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35			21 Apr 2014 15:13	5
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35			21 Apr 2014 12:50	1
Batch ID R232353 Test Name : VOLATILES - SW8260C Matrix: Water						
HS14040801-17	MW-109-0414	15 Apr 2014 13:05			22 Apr 2014 14:18	5
Batch ID R232464 Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C Matrix: Water						
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15			22 Apr 2014 18:50	1
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45			22 Apr 2014 18:50	1
HS14040801-05	MW-127-0414	15 Apr 2014 09:15			22 Apr 2014 18:50	1
HS14040801-07	MW-131-0414	15 Apr 2014 10:00			22 Apr 2014 18:50	1
HS14040801-09	MW-111-0414	15 Apr 2014 10:45			22 Apr 2014 18:50	1
HS14040801-11	MW-130-0414	15 Apr 2014 11:30			22 Apr 2014 18:50	1
HS14040801-13	MW-52-0414	15 Apr 2014 12:10			22 Apr 2014 18:50	1
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00			22 Apr 2014 18:50	1
HS14040801-17	MW-109-0414	15 Apr 2014 13:05			22 Apr 2014 18:50	1
HS14040801-19	MW-110-0414	15 Apr 2014 13:40			22 Apr 2014 18:50	1
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15			22 Apr 2014 18:50	1
HS14040801-23	EB-10-0414	15 Apr 2014 16:00			22 Apr 2014 18:50	1
Batch ID R232554 Test Name : GASOLINE RANGE ORGANICS BY SW8015C Matrix: Water						
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15			25 Apr 2014 12:43	1
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45			25 Apr 2014 13:38	1
HS14040801-05	MW-127-0414	15 Apr 2014 09:15			25 Apr 2014 13:56	1
HS14040801-07	MW-131-0414	15 Apr 2014 10:00			25 Apr 2014 14:33	1
HS14040801-09	MW-111-0414	15 Apr 2014 10:45			25 Apr 2014 14:51	1
HS14040801-11	MW-130-0414	15 Apr 2014 11:30			25 Apr 2014 15:09	1
HS14040801-13	MW-52-0414	15 Apr 2014 12:10			25 Apr 2014 15:28	1
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00			25 Apr 2014 16:11	1
HS14040801-17	MW-109-0414	15 Apr 2014 13:05			25 Apr 2014 16:53	1
HS14040801-19	MW-110-0414	15 Apr 2014 13:40			25 Apr 2014 17:12	1
HS14040801-23	EB-10-0414	15 Apr 2014 16:00			25 Apr 2014 17:30	1
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35			25 Apr 2014 17:48	1
HS14040801-29	EB-11-0414	16 Apr 2014 10:30			25 Apr 2014 18:25	1

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
WorkOrder: HS14040801

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID	R232567	Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C		Matrix: Water		
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35			23 Apr 2014 18:50	1
HS14040801-29	EB-11-0414	16 Apr 2014 10:30			23 Apr 2014 18:50	1
Batch ID	R232686	Test Name : VOLATILES - SW8260C		Matrix: Water		
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45			25 Apr 2014 21:17	1
HS14040801-05	MW-127-0414	15 Apr 2014 09:15			25 Apr 2014 20:53	50
HS14040801-05	MW-127-0414	15 Apr 2014 09:15			25 Apr 2014 20:28	5
HS14040801-07	MW-131-0414	15 Apr 2014 10:00			25 Apr 2014 20:04	50
HS14040801-07	MW-131-0414	15 Apr 2014 10:00			25 Apr 2014 19:40	5
Batch ID	R232800	Test Name : VOLATILES - SW8260C		Matrix: Water		
HS14040801-09	MW-111-0414	15 Apr 2014 10:45			28 Apr 2014 16:45	25
Batch ID	R233075	Test Name : CYANIDE BY SW9012B		Matrix: Water		
HS14040801-13	MW-52-0414	15 Apr 2014 12:10			03 May 2014 10:00	1
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00			03 May 2014 10:00	1
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15			03 May 2014 10:00	1
HS14040801-23	EB-10-0414	15 Apr 2014 16:00			03 May 2014 10:00	1
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35			03 May 2014 10:00	1
HS14040801-29	EB-11-0414	16 Apr 2014 10:30			03 May 2014 10:00	1

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
WorkOrder: HS14040801

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R233109	Test Name : ANIONS BY E300.0			Matrix: Water		
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15			02 May 2014 04:24	1
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15			01 May 2014 23:33	5
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45			02 May 2014 04:38	1
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45			01 May 2014 23:47	5
HS14040801-05	MW-127-0414	15 Apr 2014 09:15			02 May 2014 04:53	1
HS14040801-05	MW-127-0414	15 Apr 2014 09:15			02 May 2014 00:02	5
HS14040801-07	MW-131-0414	15 Apr 2014 10:00			02 May 2014 05:07	1
HS14040801-07	MW-131-0414	15 Apr 2014 10:00			02 May 2014 00:16	5
HS14040801-09	MW-111-0414	15 Apr 2014 10:45			02 May 2014 05:22	1
HS14040801-09	MW-111-0414	15 Apr 2014 10:45			02 May 2014 00:31	5
HS14040801-11	MW-130-0414	15 Apr 2014 11:30			02 May 2014 06:06	1
HS14040801-11	MW-130-0414	15 Apr 2014 11:30			02 May 2014 00:46	5
HS14040801-13	MW-52-0414	15 Apr 2014 12:10			02 May 2014 06:20	1
HS14040801-13	MW-52-0414	15 Apr 2014 12:10			02 May 2014 01:00	5
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00			02 May 2014 06:35	1
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00			02 May 2014 01:15	5
HS14040801-17	MW-109-0414	15 Apr 2014 13:05			02 May 2014 06:49	1
HS14040801-17	MW-109-0414	15 Apr 2014 13:05			02 May 2014 01:58	5
HS14040801-19	MW-110-0414	15 Apr 2014 13:40			02 May 2014 07:04	1
HS14040801-19	MW-110-0414	15 Apr 2014 13:40			02 May 2014 02:13	5
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15			02 May 2014 08:02	1
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15			02 May 2014 02:27	5
HS14040801-23	EB-10-0414	15 Apr 2014 16:00			02 May 2014 02:42	1
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35			02 May 2014 08:31	1
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35			02 May 2014 02:56	5
HS14040801-29	EB-11-0414	16 Apr 2014 10:30			02 May 2014 03:11	5
Batch ID R233155	Test Name : ANIONS BY E300.0			Matrix: Water		
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15			05 May 2014 15:45	50
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45			05 May 2014 16:00	50
HS14040801-09	MW-111-0414	15 Apr 2014 10:45			05 May 2014 16:14	10
HS14040801-11	MW-130-0414	15 Apr 2014 11:30			05 May 2014 16:29	50
HS14040801-13	MW-52-0414	15 Apr 2014 12:10			05 May 2014 16:43	10
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00			05 May 2014 16:58	10
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15			05 May 2014 17:12	50
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35			05 May 2014 17:27	50

Client: Navajo Refining Company
Project: SA Artesia Refinery Sitewide GW
WorkOrder: HS14040801

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID	R233160	Test Name : NITRATE/NITRITE BY E300.0			Matrix: Water	
HS14040801-01	MW-126A-0414	15 Apr 2014 08:15			03 May 2014 14:47	5
HS14040801-03	MW-126B-0414	15 Apr 2014 08:45			03 May 2014 15:13	5
HS14040801-05	MW-127-0414	15 Apr 2014 09:15			03 May 2014 15:39	5
HS14040801-07	MW-131-0414	15 Apr 2014 10:00			03 May 2014 16:05	5
HS14040801-09	MW-111-0414	15 Apr 2014 10:45			03 May 2014 16:30	5
HS14040801-11	MW-130-0414	15 Apr 2014 11:30			03 May 2014 16:56	5
HS14040801-13	MW-52-0414	15 Apr 2014 12:10			03 May 2014 17:22	5
HS14040801-15	DUP-7-0414	15 Apr 2014 00:00			03 May 2014 17:48	5
HS14040801-17	MW-109-0414	15 Apr 2014 13:05			03 May 2014 19:05	5
HS14040801-19	MW-110-0414	15 Apr 2014 13:40			03 May 2014 19:31	5
HS14040801-21	KWB-13-0414	15 Apr 2014 14:15			03 May 2014 19:57	5
HS14040801-23	EB-10-0414	15 Apr 2014 16:00			03 May 2014 20:23	5
HS14040801-25	KWB-11B-0414	16 Apr 2014 08:35			03 May 2014 20:49	5
HS14040801-29	EB-11-0414	16 Apr 2014 10:30			03 May 2014 22:32	5

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81043		Instrument: FID-16		Method: SW8015M	
MBLK	Sample ID: LBLKW1-140422	Units: mg/L		Analysis Date: 23-Apr-2014 14:24	
Client ID:	Run ID: FID-16_232774	SeqNo: 2813980		PrepDate: 22-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) U 0.050

Surr: 2-Fluorobiphenyl 0.06848 0.0050 0.06061 0 113 60 - 135

LCS	Sample ID: LLC SW1-140422	Units: mg/L		Analysis Date: 23-Apr-2014 14:51	
Client ID:	Run ID: FID-16_232774	SeqNo: 2813981		PrepDate: 22-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) 0.5759 0.050 0.6061 0 95.0 70 - 130

Surr: 2-Fluorobiphenyl 0.07751 0.0050 0.06061 0 128 60 - 135

LCSD	Sample ID: LLCSDW1-140422	Units: mg/L		Analysis Date: 23-Apr-2014 15:17	
Client ID:	Run ID: FID-16_232774	SeqNo: 2813982		PrepDate: 22-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

TPH (Diesel Range) 0.6271 0.050 0.6061 0 103 70 - 130 0.5759 8.51 20

Surr: 2-Fluorobiphenyl 0.07896 0.0050 0.06061 0 130 60 - 135 0.07751 1.86 20

The following samples were analyzed in this batch:

HS14040801-01	HS14040801-03	HS14040801-05	HS14040801-07
HS14040801-09	HS14040801-11	HS14040801-13	HS14040801-15
HS14040801-17	HS14040801-19	HS14040801-21	HS14040801-23
HS14040801-25	HS14040801-29		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232554		Instrument: FID-9		Method: SW8015					
MBLK	Sample ID: GBLKW-140425	Units: mg/L			Analysis Date: 25-Apr-2014 12:00				
Client ID:		Run ID: FID-9_232554	SeqNo: 2809341		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	U	0.0500							
Surr: 4-Bromofluorobenzene	0.1137	0.00500	0.1	0	114	70 - 130			
LCS	Sample ID: GLCSW-140425	Units: mg/L			Analysis Date: 25-Apr-2014 11:24				
Client ID:		Run ID: FID-9_232554	SeqNo: 2809340		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.027	0.0500	1	0	103	70 - 130			
Surr: 4-Bromofluorobenzene	0.1197	0.00500	0.1	0	120	70 - 130			
MS	Sample ID: HS14040801-01MS	Units: mg/L			Analysis Date: 25-Apr-2014 13:02				
Client ID: MW-126A-0414		Run ID: FID-9_232554	SeqNo: 2809344		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.199	0.0500	1	0.1417	106	70 - 130			
Surr: 4-Bromofluorobenzene	0.1174	0.00500	0.1	0	117	70 - 130			
MSD	Sample ID: HS14040801-01MSD	Units: mg/L			Analysis Date: 25-Apr-2014 13:20				
Client ID: MW-126A-0414		Run ID: FID-9_232554	SeqNo: 2809345		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Gasoline Range Organics	1.182	0.0500	1	0.1417	104	70 - 130	1.199	1.4	30
Surr: 4-Bromofluorobenzene	0.1156	0.00500	0.1	0	116	70 - 130	0.1174	1.57	30
The following samples were analyzed in this batch:		HS14040801-01		HS14040801-03		HS14040801-05		HS14040801-07	
		HS14040801-09		HS14040801-11		HS14040801-13		HS14040801-15	
		HS14040801-17		HS14040801-19		HS14040801-23		HS14040801-25	
		HS14040801-29							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81307		Instrument: HG03		Method: SW7470	
MBLK	Sample ID: GBLKW1-042914	Units: mg/L		Analysis Date: 29-Apr-2014 13:18	
Client ID:	Run ID: HG03_232695	SeqNo: 2814353		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200			
LCS	Sample ID: GLCSW1-042914	Units: mg/L		Analysis Date: 29-Apr-2014 13:20	
Client ID:	Run ID: HG03_232695	SeqNo: 2814354		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00496	0.000200	0.005	0 99.2	80 - 120
MS	Sample ID: HS14040801-14MS	Units: mg/L		Analysis Date: 29-Apr-2014 13:25	
Client ID: MW-52-0414-D	Run ID: HG03_232695	SeqNo: 2814357		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00427	0.000200	0.005	-0.000001 85.4	80 - 120
MSD	Sample ID: HS14040801-14MSD	Units: mg/L		Analysis Date: 29-Apr-2014 13:27	
Client ID: MW-52-0414-D	Run ID: HG03_232695	SeqNo: 2814358		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00444	0.000200	0.005	-0.000001 88.8	80 - 120 0.00427 3.9 20
DUP	Sample ID: HS14040801-14DUP	Units: mg/L		Analysis Date: 29-Apr-2014 13:23	
Client ID: MW-52-0414-D	Run ID: HG03_232695	SeqNo: 2814356		PrepDate: 29-Apr-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200		-0.000001	0 20
The following samples were analyzed in this batch:					
HS14040801-14		HS14040801-16		HS14040801-22	
HS14040801-26		HS14040801-30		HS14040801-24	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81474		Instrument: ICPMS04		Method: SW6020	
MBLK	Sample ID: MBLKW3-050114	Units: mg/L		Analysis Date: 05-May-2014 23:03	
Client ID:	Run ID: ICPMS04_233118	SeqNo: 2822258		PrepDate: 01-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	U	0.00500			
Barium	U	0.00500			
Calcium	U	0.500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Nickel	U	0.00500			
Potassium	0.06598	0.200			J
Selenium	0.001041	0.00500			J
Vanadium	0.002264	0.00500			J

MBLK	Sample ID: MBLKW3-050114	Units: mg/L		Analysis Date: 06-May-2014 14:12	
Client ID:	Run ID: ICPMS04_233236	SeqNo: 2824199		PrepDate: 01-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Sodium	U	0.200			

LCS	Sample ID: MLCSW3-050114	Units: mg/L		Analysis Date: 05-May-2014 23:08	
Client ID:	Run ID: ICPMS04_233118	SeqNo: 2822259		PrepDate: 01-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	0.05035	0.00500	0.05	0	101	80 - 120
Barium	0.05329	0.00500	0.05	0	107	80 - 120
Calcium	5.18	0.500	5	0	104	80 - 120
Chromium	0.05042	0.00500	0.05	0	101	80 - 120
Iron	5.066	0.200	5	0	101	80 - 120
Lead	0.05151	0.00500	0.05	0	103	80 - 120
Manganese	0.05153	0.00500	0.05	0	103	80 - 120
Nickel	0.04909	0.00500	0.05	0	98.2	80 - 120
Potassium	5.342	0.200	5	0	107	80 - 120
Selenium	0.05051	0.00500	0.05	0	101	80 - 120
Sodium	5.569	0.200	5	0	111	80 - 120
Vanadium	0.05255	0.00500	0.05	0	105	80 - 120

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81474		Instrument: ICPMS04		Method: SW6020	
MS		Sample ID: HS14040533-03MS		Units: mg/L	Analysis Date: 05-May-2014 23:22
Client ID:		Run ID: ICPMS04_233118		SeqNo: 2822262	PrepDate: 01-May-2014 DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.04898	0.00500	0.05	0.000554 96.9	80 - 120
Barium	1.272	0.00500	0.05	1.305 -65.2	80 - 120 SO
Calcium	125.6	0.500	5	125 12.8	80 - 120 SO
Chromium	0.04885	0.00500	0.05	0.000351 97.0	80 - 120
Iron	17.98	0.200	5	13.72 85.2	80 - 120
Lead	0.0487	0.00500	0.05	0.00005 97.3	80 - 120
Manganese	0.7887	0.00500	0.05	0.7717 34.1	80 - 120 SO
Nickel	0.04703	0.00500	0.05	0.000445 93.2	80 - 120
Potassium	12.38	0.200	5	7.742 92.8	80 - 120
Selenium	0.04933	0.00500	0.05	0.001157 96.4	80 - 120
Sodium	42.54	0.200	5	39.56 59.7	80 - 120 SO
Vanadium	0.05092	0.00500	0.05	0.001836 98.2	80 - 120

MSD		Sample ID: HS14040533-03MSD		Units: mg/L	Analysis Date: 05-May-2014 23:27
Client ID:		Run ID: ICPMS04_233118		SeqNo: 2822263	PrepDate: 01-May-2014 DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.04882	0.00500	0.05	0.000554 96.5	80 - 120 0.04898 0.342 15
Barium	1.26	0.00500	0.05	1.305 -88.9	80 - 120 1.272 0.934 15 SO
Calcium	117.9	0.500	5	125 -142	80 - 120 125.6 6.34 15 SO
Chromium	0.0487	0.00500	0.05	0.000351 96.7	80 - 120 0.04885 0.303 15
Iron	17.2	0.200	5	13.72 69.5	80 - 120 17.98 4.46 15 S
Lead	0.05026	0.00500	0.05	0.00005 100	80 - 120 0.0487 3.16 15
Manganese	0.7441	0.00500	0.05	0.7717 -55.2	80 - 120 0.7887 5.82 15 SO
Nickel	0.04608	0.00500	0.05	0.000445 91.3	80 - 120 0.04703 2.05 15
Potassium	12.16	0.200	5	7.742 88.4	80 - 120 12.38 1.79 15
Selenium	0.04795	0.00500	0.05	0.001157 93.6	80 - 120 0.04933 2.85 15
Sodium	41.74	0.200	5	39.56 43.7	80 - 120 42.54 1.9 15 SO
Vanadium	0.05039	0.00500	0.05	0.001836 97.1	80 - 120 0.05092 1.05 15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81474		Instrument: ICPMS04		Method: SW6020						
DUP	Sample ID: HS14040533-03DUP	Units: mg/L			Analysis Date: 05-May-2014 23:17					
Client ID:	Run ID: ICPMS04_233118	SeqNo: 2822261		PrepDate: 01-May-2014		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00500					0.000554	0	25	
Barium	1.197	0.00500					1.305	8.6	25	
Calcium	117.7	0.500					125	6.04	25	
Chromium	U	0.00500					0.000351	0	25	
Iron	12.87	0.200					13.72	6.42	25	
Lead	U	0.00500					0.00005	0	25	
Manganese	0.7233	0.00500					0.7717	6.48	25	
Nickel	U	0.00500					0.000445	0	25	
Potassium	7.246	0.200					7.742	6.62	25	
Selenium	0.000814	0.00500					0.001157	0	25	J
Sodium	38.8	0.200					39.56	1.92	25	
Vanadium	0.001596	0.00500					0.001836	0	25	J
PDS	Sample ID: HS14040533-03BS	Units: mg/L			Analysis Date: 05-May-2014 23:31					
Client ID:	Run ID: ICPMS04_233118	SeqNo: 2822264		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.095	0.00500	0.1	0.000554	94.4	75 - 125				
Barium	1.382	0.00500	0.1	1.305	77.8	75 - 125				O
Calcium	129.7	0.500	10	125	46.9	75 - 125				SO
Chromium	0.09714	0.00500	0.1	0.000351	96.8	75 - 125				
Iron	22.88	0.200	10	13.72	91.6	75 - 125				
Lead	0.1005	0.00500	0.1	0.00005	100	75 - 125				
Manganese	0.8388	0.00500	0.1	0.7717	67.1	75 - 125				SO
Nickel	0.09163	0.00500	0.1	0.000445	91.2	75 - 125				
Potassium	17.57	0.200	10	7.742	98.2	75 - 125				
Selenium	0.09466	0.00500	0.1	0.001157	93.5	75 - 125				
Sodium	49.81	0.200	10	39.56	103	75 - 125				
Vanadium	0.09764	0.00500	0.1	0.001836	95.8	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81474		Instrument: ICPMS04		Method: SW6020	
SD	Sample ID: HS14040533-03 DIL SX	Units: mg/L		Analysis Date: 06-May-2014 00:54	
Client ID:	Run ID: ICPMS04_233118	SeqNo: 2822281		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual

Arsenic	U	0.0250			0.000554	0	10
Barium	1.237	0.0250			1.305	5.17	10
Calcium	121.8	2.50			125	2.53	10
Chromium	U	0.0250			0.000351	0	10
Iron	13.82	1.00			13.72	0.713	10
Lead	U	0.0250			0.00005	0	10
Manganese	0.7535	0.0250			0.7717	2.36	10
Nickel	U	0.0250			0.000445	0	10
Potassium	7.013	1.00			7.742	9.41	10
Selenium	U	0.0250			0.001157	0	10
Sodium	36.92	1.00			39.56	6.67	10
Vanadium	U	0.0250			0.001836	0	10

The following samples were analyzed in this batch:

HS14040801-01	HS14040801-03	HS14040801-05	HS14040801-07
HS14040801-09	HS14040801-11	HS14040801-13	HS14040801-15
HS14040801-17	HS14040801-19	HS14040801-21	HS14040801-23
HS14040801-25	HS14040801-29		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81476		Instrument: ICP7500		Method: SW6020	
MBLK	Sample ID: MBLKW4-050114	Units: mg/L		Analysis Date: 13-May-2014 15:40	
Client ID:	Run ID: ICP7500_233632	SeqNo: 2833212		PrepDate: 01-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.00500			
Barium	U	0.00500			
Chromium	U	0.00500			
Iron	U	0.200			
Lead	U	0.00500			
Manganese	U	0.00500			
Selenium	U	0.00500			

LCS	Sample ID: MLCSW4-050114	Units: mg/L		Analysis Date: 13-May-2014 15:45	
Client ID:	Run ID: ICP7500_233632	SeqNo: 2833213		PrepDate: 01-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.04882	0.00500	0.05	0 97.6	80 - 120
Barium	0.04823	0.00500	0.05	0 96.5	80 - 120
Chromium	0.04644	0.00500	0.05	0 92.9	80 - 120
Iron	4.631	0.200	5	0 92.6	80 - 120
Lead	0.04751	0.00500	0.05	0 95.0	80 - 120
Manganese	0.04702	0.00500	0.05	0 94.0	80 - 120
Selenium	0.04823	0.00500	0.05	0 96.5	80 - 120

MS	Sample ID: HS14040710-01MS	Units: mg/L		Analysis Date: 13-May-2014 16:16	
Client ID:	Run ID: ICP7500_233632	SeqNo: 2833219		PrepDate: 01-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	0.06202	0.00500	0.05	0.004113 116	75 - 125
Barium	0.07646	0.00500	0.05	0.02082 111	75 - 125
Chromium	0.05461	0.00500	0.05	0.0005001 108	75 - 125
Iron	5.569	0.200	5	0.3292 105	75 - 125
Lead	0.05237	0.00500	0.05	0.0005615 104	75 - 125
Manganese	0.2865	0.00500	0.05	0.2223 128	75 - 125 SO
Selenium	0.05888	0.00500	0.05	0.000253 117	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81476		Instrument: ICP7500		Method: SW6020						
MSD		Sample ID: HS14040710-01MSD		Units: mg/L		Analysis Date: 13-May-2014 16:21				
Client ID:		Run ID: ICP7500_233632		SeqNo: 2833220		PrepDate: 01-May-2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05947	0.00500	0.05	0.004113	111	75 - 125	0.06202	4.2	25	
Barium	0.07428	0.00500	0.05	0.02082	107	75 - 125	0.07646	2.89	25	
Chromium	0.05443	0.00500	0.05	0.0005001	108	75 - 125	0.05461	0.33	25	
Iron	5.438	0.200	5	0.3292	102	75 - 125	5.569	2.38	25	
Lead	0.05213	0.00500	0.05	0.0005615	103	75 - 125	0.05237	0.459	25	
Manganese	0.2799	0.00500	0.05	0.2223	115	75 - 125	0.2865	2.33	25	O
Selenium	0.05948	0.00500	0.05	0.000253	118	75 - 125	0.05888	1.01	25	

DUP		Sample ID: HS14040710-01DUP		Units: mg/L		Analysis Date: 13-May-2014 16:07				
Client ID:		Run ID: ICP7500_233632		SeqNo: 2833217		PrepDate: 01-May-2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.003976	0.00500					0.004113	0	25	J
Barium	0.02008	0.00500					0.02082	3.62	25	
Chromium	U	0.00500					0.0005001	0	25	
Iron	0.2299	0.200					0.3292	35.5	25	R
Lead	U	0.00500					0.0005615	0	25	
Manganese	0.2185	0.00500					0.2223	1.72	25	
Selenium	U	0.00500					0.000253	0	25	

PDS		Sample ID: HS14040710-01BS		Units: mg/L		Analysis Date: 13-May-2014 16:26				
Client ID:		Run ID: ICP7500_233632		SeqNo: 2833221		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1119	0.00500	0.1	0.004113	108	75 - 125				
Barium	0.1189	0.00500	0.1	0.02082	98.1	75 - 125				
Chromium	0.103	0.00500	0.1	0.0005001	102	75 - 125				
Iron	10.37	0.200	10	0.3292	100	75 - 125				
Lead	0.09887	0.00500	0.1	0.0005615	98.3	75 - 125				
Manganese	0.3169	0.00500	0.1	0.2223	94.6	75 - 125				
Selenium	0.1102	0.00500	0.1	0.000253	110	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81476		Instrument: ICP7500		Method: SW6020	
SD	Sample ID: HS14040710-01 DIL SX	Units: mg/L		Analysis Date: 13-May-2014 16:12	
Client ID:	Run ID: ICP7500_233632	SeqNo: 2833218		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Arsenic	U	0.0250			0.004113 0 10
Barium	0.02174	0.0250			0.02082 0 10 J
Chromium	U	0.0250			0.0005001 0 10
Iron	U	1.00			0.3292 0 10
Lead	U	0.0250			0.0005615 0 10
Manganese	0.2222	0.0250			0.2223 0.0225 10
Selenium	U	0.0250			0.000253 0 10
The following samples were analyzed in this batch:					
HS14040801-02 HS14040801-10 HS14040801-18 HS14040801-26 HS14040801-04 HS14040801-12 HS14040801-20 HS14040801-30 HS14040801-06 HS14040801-14 HS14040801-22 HS14040801-08 HS14040801-16 HS14040801-24					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: 81501		Instrument: HG03		Method: SW7470	
MBLK	Sample ID: GBLKW4-050214	Units: mg/L		Analysis Date: 02-May-2014 17:31	
Client ID:	Run ID: HG03_232876	SeqNo: 2820047		PrepDate: 02-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200			
LCS	Sample ID: GLCSW4-050214	Units: mg/L		Analysis Date: 02-May-2014 17:33	
Client ID:	Run ID: HG03_232876	SeqNo: 2820048		PrepDate: 02-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00551	0.000200	0.005	0 110	80 - 124
MS	Sample ID: HS14041027-01MS	Units: mg/L		Analysis Date: 02-May-2014 17:52	
Client ID:	Run ID: HG03_232876	SeqNo: 2820059		PrepDate: 02-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00564	0.000200	0.005	0.000002 113	80 - 124
MSD	Sample ID: HS14041027-01MSD	Units: mg/L		Analysis Date: 02-May-2014 17:53	
Client ID:	Run ID: HG03_232876	SeqNo: 2820060		PrepDate: 02-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00554	0.000200	0.005	0.000002 111	80 - 124 0.00564 1.79 20
DUP	Sample ID: HS14041027-01DUP	Units: mg/L		Analysis Date: 02-May-2014 17:46	
Client ID:	Run ID: HG03_232876	SeqNo: 2820056		PrepDate: 02-May-2014	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	U	0.000200		0.000002	0 20
The following samples were analyzed in this batch:					
		HS14040801-13	HS14040801-15	HS14040801-21	HS14040801-23
		HS14040801-25	HS14040801-29		

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232176		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140419	Units: ug/L		Analysis Date: 19-Apr-2014 12:32					
Client ID:	Run ID: VOA1_232176		SeqNo: 2799778		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232176			Instrument: VOA1		Method: SW8260				
MBLK	Sample ID: VBLKW-140419	Units: ug/L			Analysis Date: 19-Apr-2014 12:32				
Client ID:	Run ID: VOA1_232176	SeqNo: 2799778			PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	U	5.0							
n-Propylbenzene	U	5.0							
o-Xylene	U	5.0							
sec-Butylbenzene	U	5.0							
Styrene	U	5.0							
Tetrachloroethene	U	5.0							
Toluene	U	5.0							
trans-1,2-Dichloroethene	U	5.0							
trans-1,3-Dichloropropene	U	5.0							
Trichloroethene	U	5.0							
Vinyl chloride	U	2.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	50.3	5.0	50	0	101	70 - 125			
Surr: 4-Bromofluorobenzene	48.73	5.0	50	0	97.5	72 - 125			
Surr: Dibromofluoromethane	51.11	5.0	50	0	102	71 - 125			
Surr: Toluene-d8	48.39	5.0	50	0	96.8	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232176		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140419		Units: ug/L	
Client ID:		Run ID: VOA1_232176		SeqNo: 2799777	
Analyte		Result		Analysis Date: 19-Apr-2014 11:17	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
1,1,1-Trichloroethane		47.8		50 0 95.6 80 - 120	
1,1,2,2-Tetrachloroethane		46.02		50 0 92.0 72 - 120	
1,1,2-Trichloroethane		49.58		50 0 99.2 80 - 120	
1,1-Dichloroethane		47.68		50 0 95.4 76 - 120	
1,1-Dichloroethene		46.25		50 0 92.5 73 - 124	
1,2,4-Trimethylbenzene		49.91		50 0 99.8 68 - 123	
1,2-Dibromoethane		50.28		50 0 101 80 - 120	
1,2-Dichloroethane		46.62		50 0 93.2 78 - 120	
1,2-Dichloropropane		46.48		50 0 93.0 80 - 120	
1,3,5-Trimethylbenzene		50.7		50 0 101 80 - 120	
2-Butanone		113.3		100 0 113 58 - 132	
2-Hexanone		111.5		100 0 112 61 - 130	
4-Isopropyltoluene		47.27		50 0 94.5 79 - 120	
4-Methyl-2-pentanone		116.2		100 0 116 65 - 127	
Acetone		102.3		100 0 102 59 - 137	
Benzene		46.68		50 0 93.4 73 - 121	
Bromodichloromethane		48.5		50 0 97.0 75 - 125	
Bromoform		53.37		50 0 107 70 - 130	
Bromomethane		52.89		50 0 106 60 - 145	
Carbon disulfide		96.37		100 0 96.4 68 - 141	
Carbon tetrachloride		47.35		50 0 94.7 75 - 125	
Chlorobenzene		48.35		50 0 96.7 80 - 120	
Chloroethane		52.69		50 0 105 70 - 130	
Chloroform		47.46		50 0 94.9 70 - 130	
Chloromethane		43.24		50 0 86.5 67 - 123	
cis-1,2-Dichloroethene		49.16		50 0 98.3 78 - 120	
cis-1,3-Dichloropropene		56.32		50 0 113 80 - 120	
Dibromochloromethane		52.05		50 0 104 80 - 120	
Ethylbenzene		50.56		50 0 101 80 - 120	
Isopropylbenzene		50.14		50 0 100 75 - 130	
m,p-Xylene		100.9		100 0 101 78 - 121	
Methyl tert-butyl ether		42.63		50 0 85.3 70 - 125	
Methylene chloride		54.48		50 0 109 65 - 133	
Naphthalene		57.72		50 0 115 65 - 135	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232176		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140419		Units: ug/L	
Client ID:		Run ID: VOA1_232176		SeqNo: 2799777	
Analyte		Result		Analysis Date: 19-Apr-2014 11:17	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
n-Butylbenzene		47.67		0 95.3 77 - 120	
n-Propylbenzene		49.34		0 98.7 78 - 120	
o-Xylene		52.82		0 106 80 - 120	
sec-Butylbenzene		50.8		0 102 78 - 120	
Styrene		53.44		0 107 80 - 120	
Tetrachloroethene		46.18		0 92.4 79 - 120	
Toluene		47.2		0 94.4 80 - 120	
trans-1,2-Dichloroethene		49.78		0 99.6 78 - 120	
trans-1,3-Dichloropropene		57.8		0 116 80 - 120	
Trichloroethene		49.34		0 98.7 80 - 120	
Vinyl chloride		46.91		0 93.8 70 - 127	
Xylenes, Total		153.7		0 102 80 - 120	
Surr: 1,2-Dichloroethane-d4		48.91		0 97.8 70 - 125	
Surr: 4-Bromofluorobenzene		51.88		0 104 72 - 125	
Surr: Dibromofluoromethane		51.95		0 104 71 - 125	
Surr: Toluene-d8		48.25		0 96.5 75 - 125	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232176		Instrument: VOA1		Method: SW8260					
MS		Sample ID: HS14040801-01MS		Units: ug/L		Analysis Date: 19-Apr-2014 13:23			
Client ID: MW-126A-0414		Run ID: VOA1_232176		SeqNo: 2799780		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	41.38	5.0	50	0	82.8	80 - 120			
1,1,2,2-Tetrachloroethane	47.05	5.0	50	0	94.1	72 - 120			
1,1,2-Trichloroethane	48.13	5.0	50	0	96.3	80 - 120			
1,1-Dichloroethane	43.72	5.0	50	0	87.4	76 - 120			
1,1-Dichloroethene	42.01	5.0	50	0	84.0	73 - 124			
1,2,4-Trimethylbenzene	46.51	5.0	50	3.013	87.0	68 - 123			
1,2-Dibromoethane	47.52	5.0	50	0	95.0	80 - 120			
1,2-Dichloroethane	46.32	5.0	50	0	92.6	78 - 120			
1,2-Dichloropropane	47.41	5.0	50	0	94.8	80 - 120			
1,3,5-Trimethylbenzene	43.6	5.0	50	0	87.2	80 - 120			
2-Butanone	110	10	100	0	110	58 - 132			
2-Hexanone	121.2	10	100	0	121	61 - 130			
4-Isopropyltoluene	39.1	5.0	50	0	78.2	79 - 120			S
4-Methyl-2-pentanone	119.4	10	100	0	119	65 - 127			
Acetone	102.1	10	100	0	102	59 - 137			
Benzene	47.59	5.0	50	3.418	88.4	73 - 121			
Bromodichloromethane	48.97	5.0	50	0	97.9	75 - 125			
Bromoform	52.54	5.0	50	0	105	70 - 130			
Bromomethane	48.79	5.0	50	0	97.6	60 - 145			
Carbon disulfide	90.25	10	100	0	90.3	68 - 141			
Carbon tetrachloride	39.59	5.0	50	0	79.2	75 - 125			
Chlorobenzene	44.48	5.0	50	0	89.0	80 - 120			
Chloroethane	48.12	5.0	50	0	96.2	70 - 130			
Chloroform	46.41	5.0	50	0	92.8	70 - 130			
Chloromethane	39.78	5.0	50	0	79.6	67 - 123			
cis-1,2-Dichloroethene	47.97	5.0	50	0	95.9	78 - 120			
cis-1,3-Dichloropropene	55.29	5.0	50	0	111	80 - 120			
Dibromochloromethane	51.24	5.0	50	0	102	80 - 120			
Ethylbenzene	46.86	5.0	50	0	93.7	80 - 120			
Isopropylbenzene	41.73	5.0	50	0	83.5	75 - 130			
m,p-Xylene	91.72	10	100	3.496	88.2	78 - 121			
Methyl tert-butyl ether	32.11	5.0	50	0	64.2	70 - 125			S
Methylene chloride	54.89	10	50	0	110	65 - 133			
Naphthalene	55.65	5.0	50	1.332	109	65 - 135			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232176		Instrument: VOA1		Method: SW8260						
MS		Sample ID: HS14040801-01MS		Units: ug/L		Analysis Date: 19-Apr-2014 13:23				
Client ID: MW-126A-0414		Run ID: VOA1_232176		SeqNo: 2799780		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	39.2	5.0	50	0	78.4	77 - 120				
n-Propylbenzene	40.79	5.0	50	0	81.6	78 - 120				
o-Xylene	49.09	5.0	50	1.05	96.1	80 - 120				
sec-Butylbenzene	41.05	5.0	50	0	82.1	78 - 120				
Styrene	48.22	5.0	50	0	96.4	80 - 120				
Tetrachloroethene	38.81	5.0	50	0	77.6	79 - 120				S
Toluene	46.76	5.0	50	2.241	89.0	80 - 120				
trans-1,2-Dichloroethene	45.34	5.0	50	0	90.7	78 - 120				
trans-1,3-Dichloropropene	55.51	5.0	50	0	111	80 - 120				
Trichloroethene	45.14	5.0	50	0	90.3	80 - 120				
Vinyl chloride	40.16	2.0	50	0	80.3	70 - 127				
Xylenes, Total	140.8	15	150	4.546	90.8	80 - 120				
Surr: 1,2-Dichloroethane-d4	48.91	5.0	50	0	97.8	70 - 125				
Surr: 4-Bromofluorobenzene	48.96	5.0	50	0	97.9	72 - 125				
Surr: Dibromofluoromethane	51.58	5.0	50	0	103	71 - 125				
Surr: Toluene-d8	47.89	5.0	50	0	95.8	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232176		Instrument: VOA1		Method: SW8260					
MSD		Sample ID: HS14040801-01MSD		Units: ug/L		Analysis Date: 19-Apr-2014 13:48			
Client ID: MW-126A-0414		Run ID: VOA1_232176		SeqNo: 2799781		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	43.72	5.0	50	0	87.4	80 - 120	41.38	5.5	20
1,1,2,2-Tetrachloroethane	46.9	5.0	50	0	93.8	72 - 120	47.05	0.334	20
1,1,2-Trichloroethane	46.32	5.0	50	0	92.6	80 - 120	48.13	3.83	20
1,1-Dichloroethane	44.86	5.0	50	0	89.7	76 - 120	43.72	2.59	20
1,1-Dichloroethene	42.28	5.0	50	0	84.6	73 - 124	42.01	0.638	20
1,2,4-Trimethylbenzene	47.85	5.0	50	3.013	89.7	68 - 123	46.51	2.84	20
1,2-Dibromoethane	47.5	5.0	50	0	95.0	80 - 120	47.52	0.0395	20
1,2-Dichloroethane	47.18	5.0	50	0	94.4	78 - 120	46.32	1.84	20
1,2-Dichloropropane	48.16	5.0	50	0	96.3	80 - 120	47.41	1.57	20
1,3,5-Trimethylbenzene	46.08	5.0	50	0	92.2	80 - 120	43.6	5.54	20
2-Butanone	108	10	100	0	108	58 - 132	110	1.78	20
2-Hexanone	125.6	10	100	0	126	61 - 130	121.2	3.57	20
4-Isopropyltoluene	44.5	5.0	50	0	89.0	79 - 120	39.1	12.9	20
4-Methyl-2-pentanone	121	10	100	0	121	65 - 127	119.4	1.35	20
Acetone	101.9	10	100	0	102	59 - 137	102.1	0.191	20
Benzene	50.83	5.0	50	3.418	94.8	73 - 121	47.59	6.58	20
Bromodichloromethane	49.93	5.0	50	0	99.9	75 - 125	48.97	1.95	20
Bromoform	51.45	5.0	50	0	103	70 - 130	52.54	2.11	20
Bromomethane	48.72	5.0	50	0	97.4	60 - 145	48.79	0.14	20
Carbon disulfide	87.98	10	100	0	88.0	68 - 141	90.25	2.55	20
Carbon tetrachloride	45.23	5.0	50	0	90.5	75 - 125	39.59	13.3	20
Chlorobenzene	45.29	5.0	50	0	90.6	80 - 120	44.48	1.81	20
Chloroethane	47.52	5.0	50	0	95.0	76 - 121	48.12	1.25	20
Chloroform	45.95	5.0	50	0	91.9	70 - 130	46.41	1	20
Chloromethane	42.29	5.0	50	0	84.6	67 - 123	39.78	6.11	20
cis-1,2-Dichloroethene	47.71	5.0	50	0	95.4	78 - 120	47.97	0.539	20
cis-1,3-Dichloropropene	56.56	5.0	50	0	113	80 - 120	55.29	2.28	20
Dibromochloromethane	49.6	5.0	50	0	99.2	80 - 120	51.24	3.25	20
Ethylbenzene	48.16	5.0	50	0	96.3	80 - 120	46.86	2.75	20
Isopropylbenzene	45.68	5.0	50	0	91.4	75 - 130	41.73	9.02	20
m,p-Xylene	97.39	10	100	3.496	93.9	78 - 121	91.72	5.99	20
Methyl tert-butyl ether	35.63	5.0	50	0	71.3	70 - 125	32.11	10.4	20
Methylene chloride	52.35	10	50	0	105	65 - 133	54.89	4.73	20
Naphthalene	56.04	5.0	50	1.332	109	65 - 135	55.65	0.698	20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232176		Instrument: VOA1		Method: SW8260					
MSD		Sample ID: HS14040801-01MSD		Units: ug/L		Analysis Date: 19-Apr-2014 13:48			
Client ID: MW-126A-0414		Run ID: VOA1_232176		SeqNo: 2799781		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	42.34	5.0	50	0	84.7	77 - 120	39.2	7.7	20
n-Propylbenzene	44.89	5.0	50	0	89.8	78 - 120	40.79	9.57	20
o-Xylene	49.75	5.0	50	1.05	97.4	80 - 120	49.09	1.34	20
sec-Butylbenzene	43.92	5.0	50	0	87.8	78 - 120	41.05	6.76	20
Styrene	48.7	5.0	50	0	97.4	80 - 120	48.22	0.986	20
Tetrachloroethene	43.64	5.0	50	0	87.3	79 - 120	38.81	11.7	20
Toluene	46.71	5.0	50	2.241	88.9	80 - 120	46.76	0.124	20
trans-1,2-Dichloroethene	45.73	5.0	50	0	91.5	78 - 120	45.34	0.867	20
trans-1,3-Dichloropropene	57.61	5.0	50	0	115	80 - 120	55.51	3.71	20
Trichloroethene	48.19	5.0	50	0	96.4	80 - 120	45.14	6.53	20
Vinyl chloride	42.93	2.0	50	0	85.9	70 - 127	40.16	6.66	20
Xylenes, Total	147.1	15	150	4.546	95.1	78 - 121	140.8	4.39	20
Surr: 1,2-Dichloroethane-d4	48.99	5.0	50	0	98.0	70 - 125	48.91	0.162	20
Surr: 4-Bromofluorobenzene	49.45	5.0	50	0	98.9	72 - 125	48.96	0.994	20
Surr: Dibromofluoromethane	49.77	5.0	50	0	99.5	71 - 125	51.58	3.58	20
Surr: Toluene-d8	46.24	5.0	50	0	92.5	75 - 125	47.89	3.52	20

The following samples were analyzed in this batch: HS14040801-01 HS14040801-23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232214		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140420	Units: ug/L		Analysis Date: 20-Apr-2014 13:38					
Client ID:	Run ID: VOA1_232214		SeqNo: 2800895		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232214		Instrument: VOA1		Method: SW8260					
MBLK	Sample ID: VBLKW-140420	Units: ug/L		Analysis Date: 20-Apr-2014 13:38					
Client ID:	Run ID: VOA1_232214		SeqNo: 2800895		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	U	5.0							
n-Propylbenzene	U	5.0							
o-Xylene	U	5.0							
sec-Butylbenzene	U	5.0							
Styrene	U	5.0							
Tetrachloroethene	U	5.0							
Toluene	U	5.0							
trans-1,2-Dichloroethene	U	5.0							
trans-1,3-Dichloropropene	U	5.0							
Trichloroethene	U	5.0							
Vinyl chloride	U	2.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	49.57	5.0	50	0	99.1	70 - 125			
Surr: 4-Bromofluorobenzene	48.46	5.0	50	0	96.9	72 - 125			
Surr: Dibromofluoromethane	49.35	5.0	50	0	98.7	71 - 125			
Surr: Toluene-d8	49.47	5.0	50	0	98.9	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232214		Instrument: VOA1		Method: SW8260						
LCS		Sample ID: VLCSW-140420		Units: ug/L		Analysis Date: 20-Apr-2014 12:23				
Client ID:		Run ID: VOA1_232214		SeqNo: 2800894		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.05	5.0	50	0	96.1	80 - 120				
1,1,2,2-Tetrachloroethane	43.56	5.0	50	0	87.1	72 - 120				
1,1,2-Trichloroethane	48.98	5.0	50	0	98.0	80 - 120				
1,1-Dichloroethane	47.51	5.0	50	0	95.0	76 - 120				
1,1-Dichloroethene	49.01	5.0	50	0	98.0	73 - 124				
1,2,4-Trimethylbenzene	46.66	5.0	50	0	93.3	68 - 123				
1,2-Dibromoethane	48.14	5.0	50	0	96.3	80 - 120				
1,2-Dichloroethane	46.08	5.0	50	0	92.2	78 - 120				
1,2-Dichloropropane	45.18	5.0	50	0	90.4	80 - 120				
1,3,5-Trimethylbenzene	46.82	5.0	50	0	93.6	80 - 120				
2-Butanone	104.2	10	100	0	104	58 - 132				
2-Hexanone	112.7	10	100	0	113	61 - 130				
4-Isopropyltoluene	45.13	5.0	50	0	90.3	79 - 120				
4-Methyl-2-pentanone	105.2	10	100	0	105	65 - 127				
Acetone	99.05	10	100	0	99.0	59 - 137				
Benzene	45.82	5.0	50	0	91.6	73 - 121				
Bromodichloromethane	47.53	5.0	50	0	95.1	75 - 125				
Bromoform	51.33	5.0	50	0	103	70 - 130				
Bromomethane	58.67	5.0	50	0	117	60 - 145				
Carbon disulfide	97.41	10	100	0	97.4	68 - 141				
Carbon tetrachloride	46.43	5.0	50	0	92.9	75 - 125				
Chlorobenzene	47.08	5.0	50	0	94.2	80 - 120				
Chloroethane	55.46	5.0	50	0	111	70 - 130				
Chloroform	47.64	5.0	50	0	95.3	70 - 130				
Chloromethane	45.95	5.0	50	0	91.9	67 - 123				
cis-1,2-Dichloroethene	48.91	5.0	50	0	97.8	78 - 120				
cis-1,3-Dichloropropene	55.08	5.0	50	0	110	80 - 120				
Dibromochloromethane	52.4	5.0	50	0	105	80 - 120				
Ethylbenzene	49.42	5.0	50	0	98.8	80 - 120				
Isopropylbenzene	48.18	5.0	50	0	96.4	75 - 130				
m,p-Xylene	95.33	10	100	0	95.3	78 - 121				
Methyl tert-butyl ether	54.44	5.0	50	0	109	70 - 125				
Methylene chloride	53.69	10	50	0	107	65 - 133				
Naphthalene	53.46	5.0	50	0	107	65 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232214		Instrument: VOA1		Method: SW8260	
LCS		Sample ID: VLCSW-140420		Units: ug/L	
Client ID:		Run ID: VOA1_232214		SeqNo: 2800894	
Analyte		Result		Analysis Date: 20-Apr-2014 12:23	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
n-Butylbenzene		46.56		77 - 120	
n-Propylbenzene		45.89		78 - 120	
o-Xylene		51.28		80 - 120	
sec-Butylbenzene		48.05		78 - 120	
Styrene		52.39		80 - 120	
Tetrachloroethene		45.95		79 - 120	
Toluene		48.07		80 - 120	
trans-1,2-Dichloroethene		48.44		78 - 120	
trans-1,3-Dichloropropene		57.15		80 - 120	
Trichloroethene		48.93		80 - 120	
Vinyl chloride		48.34		70 - 127	
Xylenes, Total		146.6		80 - 120	
Surr: 1,2-Dichloroethane-d4		47.44		70 - 125	
Surr: 4-Bromofluorobenzene		49.82		72 - 125	
Surr: Dibromofluoromethane		50.24		71 - 125	
Surr: Toluene-d8		49.02		75 - 125	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232214		Instrument: VOA1		Method: SW8260	
MS		Sample ID: HS14040801-11MS		Units: ug/L	
Client ID: MW-130-0414		Run ID: VOA1_232214		Analysis Date: 20-Apr-2014 14:03	
		SeqNo: 2800896		PrepDate:	
				DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
1,1,1-Trichloroethane	45.78	5.0	50	0 91.6	80 - 120
1,1,2,2-Tetrachloroethane	46.81	5.0	50	0 93.6	72 - 120
1,1,2-Trichloroethane	47.26	5.0	50	0 94.5	80 - 120
1,1-Dichloroethane	46.72	5.0	50	0 93.4	76 - 120
1,1-Dichloroethene	45.97	5.0	50	0 91.9	73 - 124
1,2,4-Trimethylbenzene	48.47	5.0	50	0 96.9	68 - 123
1,2-Dibromoethane	49.13	5.0	50	0 98.3	80 - 120
1,2-Dichloroethane	47.67	5.0	50	0 95.3	78 - 120
1,2-Dichloropropane	47.79	5.0	50	0 95.6	80 - 120
1,3,5-Trimethylbenzene	48.21	5.0	50	0 96.4	80 - 120
2-Butanone	104.5	10	100	0 104	58 - 132
2-Hexanone	127.4	10	100	0 127	61 - 130
4-Isopropyltoluene	47.25	5.0	50	0 94.5	79 - 120
4-Methyl-2-pentanone	120.6	10	100	0 121	65 - 127
Acetone	105.6	10	100	0 106	59 - 137
Benzene	46.09	5.0	50	0 92.2	73 - 121
Bromodichloromethane	49.75	5.0	50	0 99.5	75 - 125
Bromoform	53.12	5.0	50	0 106	70 - 130
Bromomethane	52.29	5.0	50	0 105	60 - 145
Carbon disulfide	94.65	10	100	0 94.7	68 - 141
Carbon tetrachloride	45.2	5.0	50	0 90.4	75 - 125
Chlorobenzene	45.42	5.0	50	0 90.8	80 - 120
Chloroethane	47.52	5.0	50	0 95.0	70 - 130
Chloroform	48.3	5.0	50	0 96.6	70 - 130
Chloromethane	39.74	5.0	50	0 79.5	67 - 123
cis-1,2-Dichloroethene	29.3	5.0	50	0 58.6	78 - 120 S
cis-1,3-Dichloropropene	55.28	5.0	50	0 111	80 - 120
Dibromochloromethane	51.38	5.0	50	0 103	80 - 120
Ethylbenzene	48.66	5.0	50	0 97.3	80 - 120
Isopropylbenzene	48.93	5.0	50	0 97.9	75 - 130
m,p-Xylene	97.31	10	100	0 97.3	78 - 121
Methyl tert-butyl ether	43.16	5.0	50	0 86.3	70 - 125
Methylene chloride	54.51	10	50	0 109	65 - 133
Naphthalene	55.71	5.0	50	0 111	65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232214		Instrument: VOA1		Method: SW8260						
MS		Sample ID: HS14040801-11MS		Units: ug/L		Analysis Date: 20-Apr-2014 14:03				
Client ID: MW-130-0414		Run ID: VOA1_232214		SeqNo: 2800896		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
n-Butylbenzene	51.8	5.0	50	0	104	77 - 120				
n-Propylbenzene	46.49	5.0	50	0	93.0	78 - 120				
o-Xylene	50.41	5.0	50	0	101	80 - 120				
sec-Butylbenzene	50.12	5.0	50	0	100	78 - 120				
Styrene	50.92	5.0	50	0	102	80 - 120				
Tetrachloroethene	44.92	5.0	50	0	89.8	79 - 120				
Toluene	45.06	5.0	50	0	90.1	80 - 120				
trans-1,2-Dichloroethene	47.5	5.0	50	0	95.0	78 - 120				
trans-1,3-Dichloropropene	56.55	5.0	50	0	113	80 - 120				
Trichloroethene	46.86	5.0	50	0	93.7	80 - 120				
Vinyl chloride	44.9	2.0	50	0	89.8	70 - 127				
Xylenes, Total	147.7	15	150	0	98.5	80 - 120				
Surr: 1,2-Dichloroethane-d4	48.25	5.0	50	0	96.5	70 - 125				
Surr: 4-Bromofluorobenzene	51.71	5.0	50	0	103	72 - 125				
Surr: Dibromofluoromethane	51.24	5.0	50	0	102	71 - 125				
Surr: Toluene-d8	47.4	5.0	50	0	94.8	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232214		Instrument: VOA1		Method: SW8260						
MSD		Sample ID: HS14040801-11MSD		Units: ug/L		Analysis Date: 20-Apr-2014 14:29				
Client ID: MW-130-0414		Run ID: VOA1_232214		SeqNo: 2800897		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.69	5.0	50	0	87.4	80 - 120	45.78	4.68	20	
1,1,2,2-Tetrachloroethane	48.48	5.0	50	0	97.0	72 - 120	46.81	3.52	20	
1,1,2-Trichloroethane	48.43	5.0	50	0	96.9	80 - 120	47.26	2.45	20	
1,1-Dichloroethane	45.59	5.0	50	0	91.2	76 - 120	46.72	2.44	20	
1,1-Dichloroethene	41.61	5.0	50	0	83.2	73 - 124	45.97	9.97	20	
1,2,4-Trimethylbenzene	45.88	5.0	50	0	91.8	68 - 123	48.47	5.5	20	
1,2-Dibromoethane	50.14	5.0	50	0	100	80 - 120	49.13	2.03	20	
1,2-Dichloroethane	47.8	5.0	50	0	95.6	78 - 120	47.67	0.282	20	
1,2-Dichloropropane	49.25	5.0	50	0	98.5	80 - 120	47.79	3	20	
1,3,5-Trimethylbenzene	48.1	5.0	50	0	96.2	80 - 120	48.21	0.223	20	
2-Butanone	110	10	100	0	110	58 - 132	104.5	5.12	20	
2-Hexanone	132.6	10	100	0	133	61 - 130	127.4	4.02	20	S
4-Isopropyltoluene	45.59	5.0	50	0	91.2	79 - 120	47.25	3.57	20	
4-Methyl-2-pentanone	126	10	100	0	126	65 - 127	120.6	4.37	20	
Acetone	101.1	10	100	0	101	59 - 137	105.6	4.34	20	
Benzene	46.73	5.0	50	0	93.5	73 - 121	46.09	1.39	20	
Bromodichloromethane	48.7	5.0	50	0	97.4	75 - 125	49.75	2.14	20	
Bromoform	53.71	5.0	50	0	107	70 - 130	53.12	1.11	20	
Bromomethane	50.94	5.0	50	0	102	60 - 145	52.29	2.62	20	
Carbon disulfide	90.7	10	100	0	90.7	68 - 141	94.65	4.27	20	
Carbon tetrachloride	43.1	5.0	50	0	86.2	75 - 125	45.2	4.77	20	
Chlorobenzene	47.48	5.0	50	0	95.0	80 - 120	45.42	4.43	20	
Chloroethane	49.31	5.0	50	0	98.6	76 - 121	47.52	3.7	20	
Chloroform	46.36	5.0	50	0	92.7	70 - 130	48.3	4.09	20	
Chloromethane	41.17	5.0	50	0	82.3	67 - 123	39.74	3.55	20	
cis-1,2-Dichloroethene	45.31	5.0	50	0	90.6	78 - 120	29.3	42.9	20	R
cis-1,3-Dichloropropene	57.83	5.0	50	0	116	80 - 120	55.28	4.51	20	
Dibromochloromethane	52.58	5.0	50	0	105	80 - 120	51.38	2.3	20	
Ethylbenzene	48.37	5.0	50	0	96.7	80 - 120	48.66	0.607	20	
Isopropylbenzene	45.33	5.0	50	0	90.7	75 - 130	48.93	7.64	20	
m,p-Xylene	93.94	10	100	0	93.9	78 - 121	97.31	3.52	20	
Methyl tert-butyl ether	47.27	5.0	50	0	94.5	70 - 125	43.16	9.07	20	
Methylene chloride	55.34	10	50	0	111	65 - 133	54.51	1.51	20	
Naphthalene	59.53	5.0	50	0	119	65 - 135	55.71	6.64	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232214		Instrument: VOA1		Method: SW8260					
MSD		Sample ID: HS14040801-11MSD		Units: ug/L		Analysis Date: 20-Apr-2014 14:29			
Client ID: MW-130-0414		Run ID: VOA1_232214		SeqNo: 2800897		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	46.84	5.0	50	0	93.7	77 - 120	51.8	10.1	20
n-Propylbenzene	45.95	5.0	50	0	91.9	78 - 120	46.49	1.17	20
o-Xylene	48.35	5.0	50	0	96.7	80 - 120	50.41	4.16	20
sec-Butylbenzene	46.41	5.0	50	0	92.8	78 - 120	50.12	7.69	20
Styrene	48.81	5.0	50	0	97.6	80 - 120	50.92	4.24	20
Tetrachloroethene	41.31	5.0	50	0	82.6	79 - 120	44.92	8.35	20
Toluene	47.15	5.0	50	0	94.3	80 - 120	45.06	4.53	20
trans-1,2-Dichloroethene	45.63	5.0	50	0	91.3	78 - 120	47.5	4	20
trans-1,3-Dichloropropene	58.48	5.0	50	0	117	80 - 120	56.55	3.37	20
Trichloroethene	48.66	5.0	50	0	97.3	80 - 120	46.86	3.77	20
Vinyl chloride	42.35	2.0	50	0	84.7	70 - 127	44.9	5.84	20
Xylenes, Total	142.3	15	150	0	94.9	78 - 121	147.7	3.74	20
Surr: 1,2-Dichloroethane-d4	48.96	5.0	50	0	97.9	70 - 125	48.25	1.46	20
Surr: 4-Bromofluorobenzene	50.41	5.0	50	0	101	72 - 125	51.71	2.54	20
Surr: Dibromofluoromethane	49.85	5.0	50	0	99.7	71 - 125	51.24	2.75	20
Surr: Toluene-d8	48.9	5.0	50	0	97.8	75 - 125	47.4	3.13	20

The following samples were analyzed in this batch:

HS14040801-11	HS14040801-13	HS14040801-15	HS14040801-21
HS14040801-27	HS14040801-29	HS14040801-31	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260					
MBLK	Sample ID: VBLKW-140421	Units: ug/L		Analysis Date: 21-Apr-2014 12:26					
Client ID:	Run ID: VOA6_232323	SeqNo: 2803321		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	U	5.0							
1,1,2,2-Tetrachloroethane	U	5.0							
1,1,2-Trichloroethane	U	5.0							
1,1-Dichloroethane	U	5.0							
1,1-Dichloroethene	U	5.0							
1,2,4-Trimethylbenzene	U	5.0							
1,2-Dibromoethane	U	5.0							
1,2-Dichloroethane	U	5.0							
1,2-Dichloropropane	U	5.0							
1,3,5-Trimethylbenzene	U	5.0							
2-Butanone	U	10							
2-Hexanone	U	10							
4-Isopropyltoluene	U	5.0							
4-Methyl-2-pentanone	U	10							
Acetone	U	10							
Benzene	U	5.0							
Bromodichloromethane	U	5.0							
Bromoform	U	5.0							
Bromomethane	U	5.0							
Carbon disulfide	U	10							
Carbon tetrachloride	U	5.0							
Chlorobenzene	U	5.0							
Chloroethane	U	5.0							
Chloroform	U	5.0							
Chloromethane	U	5.0							
cis-1,2-Dichloroethene	U	5.0							
cis-1,3-Dichloropropene	U	5.0							
Dibromochloromethane	U	5.0							
Ethylbenzene	U	5.0							
Isopropylbenzene	U	5.0							
m,p-Xylene	U	10							
Methyl tert-butyl ether	U	5.0							
Methylene chloride	U	10							
Naphthalene	U	5.0							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260					
MBLK	Sample ID: VBLKW-140421	Units: ug/L		Analysis Date: 21-Apr-2014 12:26					
Client ID:	Run ID: VOA6_232323	SeqNo: 2803321		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
n-Butylbenzene	U	5.0							
n-Propylbenzene	U	5.0							
o-Xylene	U	5.0							
sec-Butylbenzene	U	5.0							
Styrene	U	5.0							
Tetrachloroethene	U	5.0							
Toluene	U	5.0							
trans-1,2-Dichloroethene	U	5.0							
trans-1,3-Dichloropropene	U	5.0							
Trichloroethene	U	5.0							
Vinyl chloride	U	2.0							
Xylenes, Total	U	15							
Surr: 1,2-Dichloroethane-d4	50.05	5.0	50	0	100	70 - 125			
Surr: 4-Bromofluorobenzene	49.32	5.0	50	0	98.6	72 - 125			
Surr: Dibromofluoromethane	49.82	5.0	50	0	99.6	71 - 125			
Surr: Toluene-d8	48.91	5.0	50	0	97.8	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260						
LCS	Sample ID: VLCSW-140421	Units: ug/L			Analysis Date: 21-Apr-2014 11:16					
Client ID:	Run ID: VOA6_232323	SeqNo: 2803320			PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,1,1-Trichloroethane	49.1	5.0	50	0	98.2	80 - 120				
1,1,2,2-Tetrachloroethane	47.45	5.0	50	0	94.9	72 - 120				
1,1,2-Trichloroethane	47.3	5.0	50	0	94.6	80 - 120				
1,1-Dichloroethane	40.63	5.0	50	0	81.3	76 - 120				
1,1-Dichloroethene	49.26	5.0	50	0	98.5	73 - 124				
1,2,4-Trimethylbenzene	47.36	5.0	50	0	94.7	68 - 123				
1,2-Dibromoethane	47.78	5.0	50	0	95.6	80 - 120				
1,2-Dichloroethane	46.2	5.0	50	0	92.4	78 - 120				
1,2-Dichloropropane	48.32	5.0	50	0	96.6	80 - 120				
1,3,5-Trimethylbenzene	47.9	5.0	50	0	95.8	80 - 120				
2-Butanone	84.86	10	100	0	84.9	58 - 132				
2-Hexanone	97.35	10	100	0	97.4	61 - 130				
4-Isopropyltoluene	47.69	5.0	50	0	95.4	79 - 120				
4-Methyl-2-pentanone	100.2	10	100	0	100	65 - 127				
Acetone	109.4	10	100	0	109	59 - 137				
Benzene	47.58	5.0	50	0	95.2	73 - 121				
Bromodichloromethane	48.15	5.0	50	0	96.3	75 - 125				
Bromoform	51.76	5.0	50	0	104	70 - 130				
Bromomethane	43.82	5.0	50	0	87.6	60 - 145				
Carbon disulfide	89.44	10	100	0	89.4	68 - 141				
Carbon tetrachloride	48.7	5.0	50	0	97.4	75 - 125				
Chlorobenzene	47.69	5.0	50	0	95.4	80 - 120				
Chloroethane	50.33	5.0	50	0	101	70 - 130				
Chloroform	47.35	5.0	50	0	94.7	70 - 130				
Chloromethane	43.9	5.0	50	0	87.8	67 - 123				
cis-1,2-Dichloroethene	43.84	5.0	50	0	87.7	78 - 120				
cis-1,3-Dichloropropene	51.27	5.0	50	0	103	80 - 120				
Dibromochloromethane	50.19	5.0	50	0	100	80 - 120				
Ethylbenzene	49.2	5.0	50	0	98.4	80 - 120				
Isopropylbenzene	49.06	5.0	50	0	98.1	75 - 130				
m,p-Xylene	97.48	10	100	0	97.5	78 - 121				
Methyl tert-butyl ether	40.16	5.0	50	0	80.3	70 - 125				
Methylene chloride	45.36	10	50	0	90.7	65 - 133				
Naphthalene	47.15	5.0	50	0	94.3	65 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260	
LCS		Sample ID: VLCSW-140421		Units: ug/L	
Client ID:		Run ID: VOA6_232323		SeqNo: 2803320	
Analyte		Result		Analysis Date: 21-Apr-2014 11:16	
		PQL		PrepDate: DF: 1	
		SPK Val		SPK Ref Value %REC	
				Control Limit	
				RPD Ref Value %RPD	
				RPD Limit Qual	
n-Butylbenzene		46.95		77 - 120	
n-Propylbenzene		48.73		78 - 120	
o-Xylene		48.95		80 - 120	
sec-Butylbenzene		47.62		78 - 120	
Styrene		50.34		80 - 120	
Tetrachloroethene		49.44		79 - 120	
Toluene		47.54		80 - 120	
trans-1,2-Dichloroethene		43.77		78 - 120	
trans-1,3-Dichloropropene		50.95		80 - 120	
Trichloroethene		48.95		80 - 120	
Vinyl chloride		50.21		70 - 127	
Xylenes, Total		146.4		80 - 120	
Surr: 1,2-Dichloroethane-d4		47.78		70 - 125	
Surr: 4-Bromofluorobenzene		51.23		72 - 125	
Surr: Dibromofluoromethane		49.63		71 - 125	
Surr: Toluene-d8		50.06		75 - 125	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260	
MS	Sample ID: HS14040667-24MS	Units: ug/L		Analysis Date: 21-Apr-2014 14:01	
Client ID:	Run ID: VOA6_232323	SeqNo: 2803325		PrepDate:	DF: 25
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
1,1,1-Trichloroethane	1060	120	1250	0 84.8	80 - 120
1,1,2,2-Tetrachloroethane	1063	120	1250	0 85.1	72 - 120
1,1,2-Trichloroethane	1092	120	1250	0 87.3	80 - 120
1,1-Dichloroethane	1078	120	1250	0 86.2	76 - 120
1,1-Dichloroethene	999.3	120	1250	0 79.9	73 - 124
1,2,4-Trimethylbenzene	1076	120	1250	69.03 80.6	68 - 123
1,2-Dibromoethane	1103	120	1250	0 88.2	80 - 120
1,2-Dichloroethane	1070	120	1250	0 85.6	78 - 120
1,2-Dichloropropane	1110	120	1250	0 88.8	80 - 120
1,3,5-Trimethylbenzene	1052	120	1250	26.01 82.1	80 - 120
2-Butanone	2231	250	2500	0 89.3	58 - 132
2-Hexanone	2234	250	2500	0 89.4	61 - 130
4-Isopropyltoluene	1015	120	1250	0 81.2	79 - 120
4-Methyl-2-pentanone	2348	250	2500	0 93.9	65 - 127
Acetone	2488	250	2500	0 99.5	59 - 137
Benzene	3165	120	1250	2312 68.2	73 - 121 S
Bromodichloromethane	1115	120	1250	0 89.2	75 - 125
Bromoform	1161	120	1250	0 92.9	70 - 130
Bromomethane	903	120	1250	0 72.2	60 - 145
Carbon disulfide	2159	250	2500	0 86.4	68 - 141
Carbon tetrachloride	1028	120	1250	0 82.2	75 - 125
Chlorobenzene	1064	120	1250	0 85.1	80 - 120
Chloroethane	1151	120	1250	0 92.1	70 - 130
Chloroform	1076	120	1250	0 86.1	70 - 130
Chloromethane	1069	120	1250	0 85.5	67 - 123
cis-1,2-Dichloroethene	1128	120	1250	0 90.2	78 - 120
cis-1,3-Dichloropropene	1151	120	1250	0 92.1	80 - 120
Dibromochloromethane	1131	120	1250	0 90.5	80 - 120
Ethylbenzene	1439	120	1250	395.8 83.4	80 - 120
Isopropylbenzene	1064	120	1250	0 85.1	75 - 130
m,p-Xylene	2891	250	2500	819 82.9	78 - 121
Methyl tert-butyl ether	1189	120	1250	0 95.1	70 - 125
Methylene chloride	1245	250	1250	0 99.6	65 - 133
Naphthalene	1001	120	1250	29.76 77.7	65 - 135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260						
MS	Sample ID: HS14040667-24MS	Units: ug/L			Analysis Date: 21-Apr-2014 14:01					
Client ID:	Run ID: VOA6_232323	SeqNo: 2803325			PrepDate:			DF: 25		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
n-Butylbenzene	981	120	1250	0	78.5	77 - 120				
n-Propylbenzene	1050	120	1250	20.38	82.4	78 - 120				
o-Xylene	1163	120	1250	89.7	85.9	80 - 120				
sec-Butylbenzene	995.3	120	1250	0	79.6	78 - 120				
Styrene	1111	120	1250	0	88.9	80 - 120				
Tetrachloroethene	1049	120	1250	0	83.9	79 - 120				
Toluene	1109	120	1250	61.17	83.8	80 - 120				
trans-1,2-Dichloroethene	1048	120	1250	0	83.8	78 - 120				
trans-1,3-Dichloropropene	1170	120	1250	0	93.6	80 - 120				
Trichloroethene	1074	120	1250	0	85.9	80 - 120				
Vinyl chloride	1098	50	1250	0	87.9	70 - 127				
Xylenes, Total	4053	380	3750	908.7	83.9	80 - 120				
Surr: 1,2-Dichloroethane-d4	1205	120	1250	0	96.4	70 - 125				
Surr: 4-Bromofluorobenzene	1275	120	1250	0	102	72 - 125				
Surr: Dibromofluoromethane	1228	120	1250	0	98.2	71 - 125				
Surr: Toluene-d8	1246	120	1250	0	99.7	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260						
MSD		Sample ID: HS14040667-24MSD		Units: ug/L		Analysis Date: 21-Apr-2014 14:25				
Client ID:		Run ID: VOA6_232323		SeqNo: 2803326		PrepDate:		DF: 25		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1256	120	1250	0	100	80 - 120	1060	17	20	
1,1,2,2-Tetrachloroethane	1229	120	1250	0	98.3	72 - 120	1063	14.4	20	
1,1,2-Trichloroethane	1217	120	1250	0	97.3	80 - 120	1092	10.8	20	
1,1-Dichloroethane	1214	120	1250	0	97.1	76 - 120	1078	11.9	20	
1,1-Dichloroethene	1237	120	1250	0	99.0	73 - 124	999.3	21.3	20	R
1,2,4-Trimethylbenzene	1256	120	1250	69.03	94.9	68 - 123	1076	15.4	20	
1,2-Dibromoethane	1210	120	1250	0	96.8	80 - 120	1103	9.3	20	
1,2-Dichloroethane	1191	120	1250	0	95.3	78 - 120	1070	10.7	20	
1,2-Dichloropropane	1222	120	1250	0	97.7	80 - 120	1110	9.56	20	
1,3,5-Trimethylbenzene	1229	120	1250	26.01	96.3	80 - 120	1052	15.5	20	
2-Butanone	2533	250	2500	0	101	58 - 132	2231	12.7	20	
2-Hexanone	2485	250	2500	0	99.4	61 - 130	2234	10.6	20	
4-Isopropyltoluene	1203	120	1250	0	96.2	79 - 120	1015	16.9	20	
4-Methyl-2-pentanone	2610	250	2500	0	104	65 - 127	2348	10.6	20	
Acetone	2729	250	2500	0	109	59 - 137	2488	9.27	20	
Benzene	3328	120	1250	2312	81.3	73 - 121	3165	5.02	20	
Bromodichloromethane	1240	120	1250	0	99.2	75 - 125	1115	10.7	20	
Bromoform	1307	120	1250	0	105	70 - 130	1161	11.8	20	
Bromomethane	1082	120	1250	0	86.5	60 - 145	903	18	20	
Carbon disulfide	2562	250	2500	0	102	68 - 141	2159	17.1	20	
Carbon tetrachloride	1257	120	1250	0	101	75 - 125	1028	20.1	20	R
Chlorobenzene	1214	120	1250	0	97.1	80 - 120	1064	13.1	20	
Chloroethane	1332	120	1250	0	107	76 - 121	1151	14.6	20	
Chloroform	1222	120	1250	0	97.7	70 - 130	1076	12.7	20	
Chloromethane	1229	120	1250	0	98.3	67 - 123	1069	14	20	
cis-1,2-Dichloroethene	1256	120	1250	0	100	78 - 120	1128	10.7	20	
cis-1,3-Dichloropropene	1275	120	1250	0	102	80 - 120	1151	10.2	20	
Dibromochloromethane	1287	120	1250	0	103	80 - 120	1131	12.9	20	
Ethylbenzene	1616	120	1250	395.8	97.6	80 - 120	1439	11.6	20	
Isopropylbenzene	1265	120	1250	0	101	75 - 130	1064	17.2	20	
m,p-Xylene	3243	250	2500	819	97.0	78 - 121	2891	11.5	20	
Methyl tert-butyl ether	1264	120	1250	0	101	70 - 125	1189	6.13	20	
Methylene chloride	1394	250	1250	0	112	65 - 133	1245	11.3	20	
Naphthalene	1227	120	1250	29.76	95.8	65 - 135	1001	20.4	20	R

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232323		Instrument: VOA6		Method: SW8260						
MSD	Sample ID: HS14040667-24MSD	Units: ug/L			Analysis Date: 21-Apr-2014 14:25					
Client ID:	Run ID: VOA6_232323	SeqNo: 2803326		PrepDate:		DF: 25				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
n-Butylbenzene	1179	120	1250	0	94.3	77 - 120	981	18.3	20	
n-Propylbenzene	1260	120	1250	20.38	99.2	78 - 120	1050	18.2	20	
o-Xylene	1333	120	1250	89.7	99.4	80 - 120	1163	13.6	20	
sec-Butylbenzene	1203	120	1250	0	96.2	78 - 120	995.3	18.9	20	
Styrene	1279	120	1250	0	102	80 - 120	1111	14.1	20	
Tetrachloroethene	1240	120	1250	0	99.2	79 - 120	1049	16.7	20	
Toluene	1265	120	1250	61.17	96.3	80 - 120	1109	13.1	20	
trans-1,2-Dichloroethene	1247	120	1250	0	99.8	78 - 120	1048	17.4	20	
trans-1,3-Dichloropropene	1300	120	1250	0	104	80 - 120	1170	10.5	20	
Trichloroethene	1237	120	1250	0	98.9	80 - 120	1074	14.1	20	
Vinyl chloride	1303	50	1250	0	104	70 - 127	1098	17	20	
Xylenes, Total	4576	380	3750	908.7	97.8	78 - 121	4053	12.1	20	
Surr: 1,2-Dichloroethane-d4	1202	120	1250	0	96.1	70 - 125	1205	0.27	20	
Surr: 4-Bromofluorobenzene	1274	120	1250	0	102	72 - 125	1275	0.0468	20	
Surr: Dibromofluoromethane	1244	120	1250	0	99.5	71 - 125	1228	1.34	20	
Surr: Toluene-d8	1244	120	1250	0	99.5	75 - 125	1246	0.188	20	
The following samples were analyzed in this batch:										
HS14040801-05		HS14040801-07		HS14040801-09		HS14040801-17				
HS14040801-19		HS14040801-25		HS14040801-27						

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Navajo Refining Company
 WorkOrder: HS14040801
 Project: SA Artesia Refinery Sitewide GW

QC BATCH REPORT

Batch ID: R232353		Instrument: VOA1		Method: SW8260	
MBLK	Sample ID: VBLKW-140422	Units: ug/L		Analysis Date: 22-Apr-2014 13:03	
Client ID:	Run ID: VOA1_232353	SeqNo: 2804221		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Benzene	U	5.0			
Surr: 1,2-Dichloroethane-d4	48.17	5.0	50	0 96.3	70 - 125
Surr: 4-Bromofluorobenzene	47.87	5.0	50	0 95.7	72 - 125
Surr: Dibromofluoromethane	48.02	5.0	50	0 96.0	71 - 125
Surr: Toluene-d8	47.84	5.0	50	0 95.7	75 - 125

LCS	Sample ID: VLCSW-140422	Units: ug/L		Analysis Date: 22-Apr-2014 12:13	
Client ID:	Run ID: VOA1_232353	SeqNo: 2804220		PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Benzene	47.89	5.0	50	0 95.8	73 - 121
Surr: 1,2-Dichloroethane-d4	46.79	5.0	50	0 93.6	70 - 125
Surr: 4-Bromofluorobenzene	47.31	5.0	50	0 94.6	72 - 125
Surr: Dibromofluoromethane	49.64	5.0	50	0 99.3	71 - 125
Surr: Toluene-d8	48.41	5.0	50	0 96.8	75 - 125

MS	Sample ID: HS14040801-17MS	Units: ug/L		Analysis Date: 22-Apr-2014 14:43	
Client ID: MW-109-0414	Run ID: VOA1_232353	SeqNo: 2804223		PrepDate:	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Benzene	499.7	25	250	311.9 75.1	73 - 121
Surr: 1,2-Dichloroethane-d4	248.8	25	250	0 99.5	70 - 125
Surr: 4-Bromofluorobenzene	254.5	25	250	0 102	72 - 125
Surr: Dibromofluoromethane	245.4	25	250	0 98.2	71 - 125
Surr: Toluene-d8	248.8	25	250	0 99.5	75 - 125

Note: See Qualifiers Page for a list of qualifiers and their explanation.