AP – 116

2014 AGWMR

05 / 13 / 2015

May 13, 2015

Glenn von Gonten
New Mexico Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Remedial Progress Report 2014
Thriftway Refinery (NMOCD AP-116)
626 County Road 5500
Bloomfield, New Mexico

Dear Mr. von Gonten:

Animas Environmental Services, LLC (AES) has prepared this annual report detailing the quarterly results of 2014. This Remedial Progress Report details the remedial activities conducted on behalf of Thriftway Company (Thriftway) for the former Thriftway Refinery, located at 626 County Road 5500, Bloomfield, San Juan County, New Mexico. The remedial activities are being conducted in accordance with an approved Abatement Plan (Year 5) under the New Mexico Energy, Minerals and Natural Resources Department New Mexico Oil Conservation Division (NMOCD).

This Remedial Progress Report details groundwater monitoring and gauging activities, multi-phase extraction (MPE) remediation system operations, and phytoremediation activities during 2014. A General Site Plan is included as Figure 1.

1.0 Groundwater Monitoring and Sampling

BioTech Remediation (BioTech) conducted groundwater monitoring and gauging of site monitor wells at the site on February 14 and 19, May 21 and 28, August 5, and December 4 and 5, 2014. The groundwater sampling occurred on May 29 and 30, and December 10, 11, and 12. Based on the sampling plan, Year 5 monitoring and gauging events are scheduled during the first and third quarters of 2014, with groundwater sampling scheduled during the second and fourth quarters. Wells that were gauged and sampled during the 2014 events are presented below:

Year 5 Quarters #1, #2, #3, and #4 Monitor Well Gauging and Sampling List

Well ID	*Gauging Only*				*Gauging and Sampling*			
	Q1	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
TW-1 through TW-6	X	X	X	X				
TW-7[1234]	X	X	X	X				
TW-8	X		X			X		X
TW-9 through TW-11	X	X	X	X				
TW-12 through TW-14[(1)(2)(3)(4)]	X	X	X	X				
TW-15	X		X	X		X		
TW-16 through TW-17	X	X	X	X				
TW-18	X	X	X					X
TW-19 through TW-21[(1)(2)(3)(4)]	X	X	X	X				
TW-22[(1)(3)(4)]	X		X	X		X		
TW-23	X	X	X					X
TW-24[(3)]	X	X	X					X
TW-25 through TW-26[(1)(2)(3)(4)]	X	X	X	X				
TW-28[(1)(2)(3)(4)]	X	X	X	X				
TW-29[(2)(3)(4)]	X	X	X	X				
TW-30 through TW-31	X	X	X					X
TW-32 through TW-33[(1)(2)(3)(4)]	X	X	X	X				
TW-34	X	X	X	X				
TW-35[(1)(2)(3)(4)]	X	X	X	X				
TW-36[(3)(4)]	X		X	X		X		
TW-37	X		X			X		X
TW-38[(1)(3)(4)]	X		X	X		X		
TW-39	X		X			X		X
TW-40[(1)(2)(3)(4)]	X	X	X	X				
TW-41 through TW-43	X		X			X		X
TW-44[(1)(2)(3)(4)]	X	X	X	X				
TW-45	X		X			X		X
TW-46 through TW-49	X	X	X					X
TW-50[(1)(2)(3)(4)]	X	X	X	X				
TW-51	X	X	X					X
TW-52	X		X			X		X
TW-53	X	X	X					X
TW-54	X		X			X		X
MW-5	X	X	X	X				
MW-7	X		X			X		X
MW-20 and MW-21	X		X			X		X
During 1st (1), 2nd (2), 3rd (3), and/or 4th (4) Quarter 2014, these wells contained free product (including sheen of free product) and were not sampled.								

1.1 Measurement of Groundwater Elevations

Depth to groundwater in each of the selected wells was measured in February, May, August, and December 2014 with an electronic water level indicator, which has an accuracy of 0.01 feet. Depth to groundwater measurements were recorded on Water Sample Collection Forms. Electronic copies of the Water Sample Collection Forms are included in the Appendix.

1.2 Measurement of Free Product

Each well previously known to contain light non-aqueous phase liquid (LNAPL, or "free product") was measured with an electronic interface probe, and the depths to the top of product and the oil/water interface were recorded on a groundwater measurement form. Other wells were measured using a water level indicator.

1.2.1 February 2014

In February 2014, free product was detected in 18 wells, including TW-7, TW-12, TW-13, TW-14, TW-19, TW-20, TW-21, TW-22, TW-25, TW-26, TW-28, TW-32, TW-33, TW-35, TW-38, TW-40, TW-44, and TW-50. Free product thicknesses ranged from 0.02 feet in TW-38 up to 1.41 feet in TW-20.

1.2.2 May 2014

Free product was measured in May 2014 in 17 wells, including all wells with free product in February 2014 except TW-22, TW-29, and TW-38. Free product thicknesses ranged from 0.02 feet in TW-40 up to 1.31 feet in TW-20.

1.2.3 August 2014

Free product was measured in August 2014 in 21 wells, including all wells with free product in May 2014, and also TW-24 and TW-36. Free product thicknesses ranged from 0.02 feet in TW-24 up to 2.39 feet in TW-20.

1.2.4 December 2014

Free product in December was measured in 20 wells, including all wells with free product in August 2014 except TW-24. Free product thicknesses ranged from 0.07 feet in TW-38 up to 1.41 feet in TW-28.

In monitor wells containing free product, corrected groundwater elevations (Hc) were determined using the following formula:

$$\mathbf{H_c = H_m + (H_o * (\rho_o/\rho_w))}$$

where:

H_m is the measured elevation of the hydrocarbon-water interface (ft)

H_o is the thickness of the hydrocarbon layer (ft)
ρ_o is the hydrocarbon density of diesel, assumed to be 0.827 (g/ml) (API, 1986)
ρ_w is the water density, assumed to be 1.0 (g/mL)

1.3 Equipment Decontamination Protocols

In order to ensure data validity and limit cross-contamination, the following decontamination protocols for monitoring and gauging equipment were employed:

- Wash with detergent (Alconox) and warm water
- Rinse with warm water
- Wash with detergent (Alconox) and warm water
- Rinse with de-ionized water

1.4 Groundwater Sampling

After measuring the depth to groundwater in each well to be sampled, the well was purged a minimum of three well volumes with a new disposable bailer to remove stagnant water from the well. Groundwater samples were then collected. Groundwater sampling procedures include the following:

1. A new disposable bailer was used at each well. Samples were collected using a slow release valve attached to the bottom of the bailer (to ensure a slow flow and less volatilization of contaminants from groundwater). Each sample container was filled completely, ensuring there were no bubbles or headspace in the sample bottles.

2. Each bottle was labeled, and chain-of-custody documentation was filled out as each well was sampled. Clean sample containers, obtained from the analyzing laboratory, were utilized during the sampling events.

3. Samples were placed in an insulated cooler and maintained at temperature below 6°C during transportation to Hall, Albuquerque, New Mexico.

1.5 Laboratory Analyses

1.5.1 May 2014

In May 2014, samples collected from monitor wells TW-8, TW-15, TW-22, TW-36 through TW-39, TW-41, TW-42, TW-43, TW-45, TW-52, TW-54, MW-7, MW-20, and MW-21 were analyzed for the following:

- Benzene, toluene, ethylbenzene, and xylene (BTEX), methyl-t-butyl ether (MTBE), and naphthalene per U.S. Protection Agency (USEPA) Method 8260B;
- Chloride and sulfate per USEPA Method 300.0; and
- Total Dissolved Solids (TDS) per Standard Method 2540C.

1.5.2 December 2014

In December 2014, samples collected from monitor wellsTW-8, TW-18, TW-23, TW-24, TW-30, TW-31, TW-37, TW-39, TW-41, TW-42, TW-43, TW-45, TW-46, TW-47, TW-48, TW-49, TW-51, TW-52, TW-53, TW-54, MW-7, MW-20, and MW-21 were analyzed for the following constituents:

- Total Petroleum Hydrocarbons (TPH) for Gasoline Range Organics (GRO), Motor Oil Range Organics (MRO), and Diesel Range Organics (DRO) per USEPA Method 8015D; and
- BTEX, MTBE, and naphthalene per USEPA Method 8260.

In addition to the analyses listed above, samples collected in December 2014 from monitor wells TW-8, TW-30, TW-37, TW-41, TW-47, TW-51, TW-52, TW-53, TW-54, MW-20 and MW-21 were analyzed for the following:

- Chloride and sulfate per USEPA Method 300.0; and
- TDS per Standard Method 2540C.

Samples collected from monitor wells TW-8, TW-30, TW-37, TW-41, TW-53 and TW-54 in December 2014 were analyzed for the following constituents in addition to those listed previously (note that the sample collected from TW-37 was not analyzed for bromide, fluoride or specific conductance):

- RCRA 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) per USEPA Method 6010B and 7470;
- Dissolved metals (calcium, magnesium, potassium, sodium, bromide and fluoride) per USEPA Method 6010B;
- Specific Conductance per Standard Method 2510B; and
- Hardness as $CaCO_3$ per Standard Method 2340B

All samples were analyzed at Hall in Albuquerque, New Mexico.

2.0 Groundwater Monitoring and Sampling Results

2.1 Hydraulic Gradient

Using surveyed top of casing (TOC) elevations and the recorded groundwater depths, AES determined specific groundwater elevations, relative to sea level, for each well measured.

2.1.1 February 2014

Groundwater elevations across the site in February 2014 ranged from 5,424.60 feet above mean sea level (AMSL) in MW-20 to 5,440.53 feet AMSL in TW-19. Groundwater elevations increased across the site by an average of 0.41 feet since the gauging event in November 2013. Groundwater gradient was calculated between TW-1 and TW-42, with a magnitude of 0.006 ft/ft to the northwest for February 2014.

2.1.2 May 2014

Groundwater elevations across the site in May 2014 ranged from 5,425.01 feet AMSL in MW-20 to 5,440.63 feet AMSL in TW-19. Groundwater elevations increased across the site by an average of 0.04 feet since the gauging event in February 2014. Groundwater gradient was calculated between TW-1 and TW-42, with a magnitude of 0.005 ft/ft to the northwest for May 2014.

2.1.3 August 2014

Groundwater elevations across the site in August 2014 ranged from 5,424.54 feet above AMSL in MW-21 to 5,440.29 feet AMSL in TW-19. Groundwater elevations decreased across the site by an average of 0.39 feet since the gauging event in May 2014. Groundwater gradient was calculated between TW-1 and TW-42, with a magnitude of 0.006 ft/ft to the northwest for August 2014.

2.1.4 December 2014

Groundwater elevations across the site in December 2014 ranged from 5,424.31 feet AMSL in MW-20 to 5,440.24 feet AMSL in TW-19. Groundwater elevations decreased across the site by an average of 0.16 feet since the gauging event in August 2014. Groundwater gradient was calculated between TW-1 and TW-42, with a magnitude of 0.006 ft/ft to the northwest for December 2014. The groundwater flow direction has remained stable in a northwesterly direction throughout 2014 and is consistent with historical site data.

Table 1 includes depth to groundwater measurements and elevations. Groundwater elevation contours for February, May, August, and December 2014 are included on Figures 2 through 5, respectively. Water Sample Collection Forms are included in the Appendix.

2.2 Water Quality Data

During the purging of each well prior to sampling, water quality data was recorded until temperature, pH, conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) measurements stabilized.

2.2.1 May 2014

Recorded temperatures during the May 2014 sampling event ranged from 12.12°C in TW-8 to 17.40°C in TW-36. Groundwater pH ranged between 7.31 (TW-43) and 7.64 (TW-15), and conductivity readings were between 2.000 mS/cm in TW-8 and 6.654 mS/cm in TW-52. Dissolved oxygen concentrations ranged from 0.03 mg/L in TW-37 to 0.35 mg/L in TW-41. ORP ranged from 27.7 mV (TW-37) to 119.0 mV (TW-45).

2.2.2 December 2014

Recorded temperatures during the December 2014 sampling event ranged from 10.63°C in TW-48 to 15.13°C in TW-24. Groundwater pH ranged between 7.50 (TW-8) and 8.07 (MW-7), and conductivity readings were between 4.124 mS/cm in TW-8 and 11.54 mS/cm in TW-47. Dissolved oxygen concentrations ranged from 0.02 mg/L in TW-39 to 7.70 mg/L in MW-7. ORP ranged from -86.0 mV (TW-39) to 252.7 mV (TW-8).

Table 1 includes water quality data for May and December.

2.3 Free Product

2.3.1 February 2014

In February 2014, free product was detected in 18 wells, including TW-7, TW-12, TW-13, TW-14, TW-19, TW-20, TW-21, TW-22, TW-25, TW-26, TW-28, TW-32, TW-33, TW-35, TW-38, TW-40, TW-44, and TW-50. Free product thicknesses ranged from 0.02 feet in TW-38 to 1.41 feet in TW-20. Most wells with free product showed decreases in measured thicknesses of between 0.1 and 0.6 feet. Measured free product thickness contours for February 2014 are presented in Figure 6.

2.3.2 May 2014

In May 2014, free product was measured in 17 monitor wells, including TW-7, TW-12, TW-13, TW-14, TW-19, TW-20, TW-21, TW-25, TW-26, TW-28, TW-29, TW-32, TW-33, TW-35, TW-40, TW-44, and TW-50. Measured LNAPL thicknesses ranged from 0.02 feet (TW-40) to 1.31 feet (TW-20). Most wells with free product showed decreases in measured thicknesses of between 0.1 and 0.3 feet. Measured free product thickness contours for May 2014 are presented in Figure 7.

2.3.3 August 2014

In August 2014, free product was measured in 21 monitor wells, including all wells with free product in May 2014 and also TW-22, TW-24, TW-36, and TW-38. Measured LNAPL thicknesses ranged from 0.02 feet (TW-24) to 2.39 feet (TW-20). Most wells with free product showed increases in measured thicknesses of between 0.1 and 0.6 feet. Measured free product thickness contours for August 2014 are presented in Figure 8.

2.3.4 December 2014

Free product was measured in 20 monitor wells in December 2014, including all wells with free product in August 2014 except TW-24. Measured LNAPL thicknesses ranged from 0.07 feet (TW-38) to 2.04 feet (TW-13). Most wells with free product showed minimal change in measured thicknesses. Measured free product thickness contours for December 2014 are presented in Figure 9. Graph 1 presents free product thicknesses over time in the eastern portion of the product plume (TW-13, TW-14, TW-19, and TW-22).

2.4 Dissolved Phase Contaminant Concentrations

2.4.1 May 2014

In May 2014, dissolved phase benzene concentrations outside the area of free product exceeded the New Mexico Water Quality Control Commission (WQCC) standard of 10 µg/L in 2 of the 20 wells sampled, including TW-37 (210 µg/L) and TW-41 (35 µg/L).

Toluene and ethylbenzene concentrations outside the area of free product were below laboratory detection limits or below the applicable WQCC standards of 750 µg/L in all sampled wells during the May 2014 sampling event. Xylene concentrations were below laboratory detection limits or below the applicable WQCC standard of 620 µg/L in all wells sampled in May 2014.

Dissolved phase MTBE concentrations outside the area of free product were above the WQCC standard of 100 µg/L in three of the wells sampled in May 2014, including TW-43 (310 µg/L), TW-45 (170 µg/L), and MW-20 (160 µg/L).

Dissolved phase total naphthalene concentrations outside the area of free product were below laboratory detection limits or below the applicable WQCC standard of 30 µg/L in all sampled wells in May 2014.

BTEX, MTBE, and total naphthalene analytical data are summarized in Table 2. Dissolved phase benzene and MTBE concentration contours for May 2014 are shown in Figure 10 and Figure 11, respectively. Laboratory analytical reports are presented in the Appendix.

2.4.2 December 2014

December 2014 benzene concentrations outside the area of free product exceeded the WQCC standard in TW-37 (140 µg/L) and TW-41 (88 µg/L). Note that benzene concentrations in wells northwest of the product plume remain below laboratory detection limits.

Toluene and ethylbenzene concentrations outside the area of free product were below laboratory detection limits or below the applicable WQCC standards of 750 µg/L in all sampled wells during the December 2014 sampling event.

Xylene concentrations were below laboratory detection limits or below the applicable WQCC standard of 620 µg/L in all wells sampled in December, with the exception of TW-41 (1,600 µg/L).

MTBE concentrations outside the area of free product were above the WQCC standard in two of the wells sampled in December 2014, including TW-43 (330 µg/L) and TW-51 (190 µg/L). All other wells were either below the laboratory detection limits (1.0 µg/L) or below applicable WQCC standards.

Dissolved phase total naphthalene concentrations outside the area of free product were below laboratory detection limits or below the applicable WQCC standard of 30 µg/L in all sampled wells in December 2014, with the exception of TW-41 (39 µg/L).

BTEX, MTBE, and total naphthalene analytical data are summarized in Table 2. Dissolved phase benzene and MTBE concentration contours for December 2014 are shown in Figure 12 and Figure 13, respectively. Laboratory analytical reports are presented in the Appendix.

2.5 Geochemical Parameters

2.5.1 May 2014

Geochemical analytical results from May 2014 are as follows:

- Chloride concentrations were reported above the WQCC standard of 250 mg/L in TW-39 (340 mg/L), TW-41 (720 mg/L), TW-52 (270 mg/L), MW-7 (590 mg/L), MW-20 (430 mg/L), and MW-21 (650 mg/L);
- Sulfate concentrations were reported above the WQCC standard of 600 mg/L in all sampled wells. Reported sulfate concentrations ranged from 1,000 mg/L (TW-37 and TW-39) to 4,200 mg/L (TW-52);
- TDS concentrations were above the WQCC standard of 1,000 mg/L in all wells sampled, with the highest TDS concentrations detected in TW-52 (7,560 mg/L).

2.5.2 December 2014

December 2014 geochemical analytical results are as follows:

- RCRA 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) exceeded the WQCC standard for arsenic (0.10 mg/L) in TW-53 with 0.24 mg/L and TW-54 with 0.13 mg/L. Otherwise, RCRA 8 metals were reported below the laboratory detection limit or the below the applicable WQCC standards in all sampled wells.
- Dissolved calcium concentrations ranged from 260 mg/L (TW-41) to 480 mg/L (TW-8);
- Dissolved magnesium concentrations ranged from 33 mg/L (TW-54) to 81 mg/L (TW-53);
- Dissolved potassium concentrations ranged from 3.0 mg/L (TW-37) to 7.1 mg/L (TW-54);
- Dissolved sodium concentrations ranged from 600 mg/L (TW-8) to 1,700 mg/L (TW-53);
- Bromide concentrations ranged from <0.50 mg/L (TW-54) to 1.0 mg/L (TW-53);
- Chloride concentrations were reported above the WQCC standard of 250 mg/L in TW-30 (300 mg/L), TW-39 (340 mg/L), TW-41 (590 mg/L), TW-47 (1,500 mg/L), TW-51 (290 mg/L), TW-52 (270 mg/L), TW-53 (320 mg/L), MW-7 (590 mg/L), MW-20 (440 mg/L), and MW-21 (810 mg/L);
- Fluoride concentrations were reported below the WQCC standard of 1.6 mg/L. Low concentrations were only reported in TW-8 (0.56 mg/L) and TW-30 (0.60 mg/L);
- Sulfate concentrations were reported above the WQCC standard of 600 mg/L in all sampled wells. Reported sulfate concentrations ranged from 770 mg/L (TW-41) to 5,000 mg/L (TW-47);
- Specific conductance in the sampled wells ranged from 3,500 µmhos/cm to 7,200 µmhos/cm;
- Hardness as $CaCO_3$ ranged from 840 mg/L to 1,400 mg/L;
- TDS concentrations were above the WQCC standard of 1,000 mg/L in all wells sampled, with the highest TDS concentrations detected in TW-47 (8,630 mg/L).

Geochemical analytical data are summarized in Table 3, and laboratory analytical reports are included in the Appendix.

3.0 Measurement of Groundwater and Free Product in MPE Wells

3.1 February 2014

BioTech personnel measured depth to groundwater in MPE wells on February 21, 2014. Depth to water ranged from 8.78 feet below TOC in MPE-80 to 24.07 feet below TOC in MPE-1. During the first quarter 2014, free product was measured in 45 MPE wells with free product thicknesses ranging from 0.01 feet in MPE-51 to 0.98 feet in MPE-37.

3.2 May 2014

Depth to groundwater in MPE wells was measured by BioTech personnel on June 2 and 3, 2014. Depth to water ranged from 8.86 feet below TOC in MPE-80 to 23.81 feet below TOC in MPE-9. During the second quarter 2014, free product was measured in 36 MPE wells with free product thicknesses ranging from 0.01 feet in MPE-7 and MPE-35 to 0.71 feet in MPE-26.

3.3 August 2014

BioTech personnel measured depth to groundwater in MPE wells on August 26 and 27, 2014. Depth to water ranged from 9.16 feet below TOC in MPE-80 to 24.49 feet below TOC in MPE-26. During the third quarter 2014, free product was measured in 49 MPE wells with free product thicknesses ranging from 0.02 feet in MPE-51 to 1.54 feet in MPE-73.

3.4 December 2014

Depth to groundwater in MPE wells was measured by BioTech personnel on December 8 and 9, 2014. Depth to water ranged from 8.97 feet below TOC in MPE-80 to 24.39 feet below TOC in MPE-26. During the fourth quarter 2014, free product was measured in 48 MPE wells with free product thicknesses ranging from 0.03 feet in MPE-23 to 1.46 feet in MPE-73.

Table 4 includes February to December 2014 MPE depth to water and NAPL thickness measurements.

4.0 MPE Remediation System Operations

The MPE remediation system was initially brought online in March 2010 and consisted of an RSI internal combustion engine (ICE) unit to extract soil vapors and free product from the MPE extractions wells. For 2014, the MPE remediation system was returned to

service from winter pulsing on May 8, 2014, and the unit was in operation until November 11, 2014, when it was taken off-line for the winter season. From May 8 to June 24 and September 20 to October 25 a total of 3,796 lbs of petroleum hydrocarbons were removed from the site. Due to a data logging malfunction, the data from June 34 to September 20 and October 25 to November 11 was unrecoverable.

An additional RSI unit was tested on the site from May 28 through June 30, 2014, and recovered a total of 1,531 lbs of petroleum hydrocarbons. A total of approximately **35,381 lbs** of petroleum hydrocarbons (as vapors) have been mechanically removed from the site since system startup on March 10, 2010.

BioTech personnel routinely inspect the system and record performance data. During O&M visits, BioTech personnel perform routine maintenance on the MPE remediation unit. Maintenance includes checking fluid levels, checking and replacing air filters, changing spark plugs, changing oil, flushing the radiator, and inspecting the catox unit.

In the RSI unit, well vacuums for the reporting period from September through October typically ranged between 45 and 204 in-H_2O during MPE operations, with total process flow typically ranging between 25 and 50 scfm. Well flow dilution air is estimated to be approximately 10 percent at each well (as needed to lift product).

4.1 System Operations

Based on a runtime of 66 percent from September 20 through October 25, an additional estimated 4,784 lbs of hydrocarbons were removed over the 105 days (6/24/14 to 9/20/14 and 10/25/14 to 11/11/14) of missing data. Resulting in a total of approximately 8,580 lbs removed for the year 2014 from RSI unit 294. Based on system operations for May through June, estimated time missing between June and September, and September through October 2014, the following estimated remedial summary is presented:

MPE Remediation System Summary, Thriftway Refinery

Parameters	*RSI Unit 294 Reporting Period (4/8/14—6/24/14, 9/20/14—10/25/14, and estimate from additional 105 days)*	*RSI Unit 264 Reporting Period (5/28/14—6/30/14)*	*Total Cumulative to Date*
Estimated Petroleum Hydrocarbons Removed (lbs)*	8,580	1,531	30,165
Equivalent Gallons Gasoline Removed (gal)*	1,383	247	6,478
Total Cubic Feet Processed (scf)	9,336,415	772,110	38,010,059

*from soil vapors only

Free phase hydrocarbons were also recovered and collected in an aboveground storage tank (AST). The total estimated volume of free phase hydrocarbons collected in 2014 was 567 gallons. 400 gallons were removed from the site by Cummins Burner Fuel, and 167 gallons remains on site within the AST. Based on these estimates, a total of at least **7,045 gallons** of hydrocarbons have been removed from the site since 2010.

5.0 Phytoremediation Project

Approximately 100 hybrid poplar trees were planted in April 2014 at the west of the site. The April 2014 phytoremediation area is shown on Figure 1.

6.0 Summary and Conclusions

BioTech Remediation completed groundwater monitoring and gauging at the site in February, May/June, August, and December 2014. Groundwater elevations in February 2014 increased an average of 0.41 feet since November 2013, increased from February to May 2014 an average of 0.04 feet, decreased from May to August 2014 an average of 0.39 feet, and decreased an average of 0.16 feet from August to December 2014. During December 2014, the groundwater gradient was calculated to be approximately 0.006 ft/ft in a northwest direction across the site, which is consistent with historical site data.

Measured free product thicknesses in 2014 were present in several monitor wells and MPE wells. The greatest measured thickness was recorded in TW-20 at 2.39 feet. Product thicknesses have fluctuated with seasonal changes in groundwater elevations.

Based upon the analytical results for the May 2014 sampling event, dissolved phase contaminant concentrations outside of the free product plume for benzene, MTBE, chloride, sulfate, and TDS exceeded the New Mexico WQCC standards in several wells. The highest benzene concentration was reported at 210 µg/L in TW-37. The highest dissolved phase MTBE concentration was detected in TW-43 (310 µg/L).

Similarly, based upon the December 2014 sampling event analytical results, dissolved phase contaminant concentrations outside of the free product plume for benzene, MTBE, chloride, sulfate, and TDS exceeded WQCC standards in several wells. The highest benzene concentration was reported at 140 µg/L in TW-37. The highest dissolved phase MTBE concentration was detected in TW-43 (330 µg/L). The northwest portion of the site is showing variable benzene concentrations and MTBE concentrations in MW-7, MW-21, TW-30, TW-31, TW-39, TW-41, TW-42, TW-47, and TW-49. The decreasing MTBE concentrations in several of these wells, MW-21, TW-30, TW-39, and TW-49, may be associated with the phytoremediation treatment areas which were planted from 2010 to 2014.

Geochemical data for the May 2014 sampling event showed that chloride concentrations exceeded the WQCC standard of 250 mg/L in six of the sampled wells, with the highest concentration being reported in TW-41 (720 mg/L). All sampled wells had concentrations of sulfate above the WQCC standard of 600 mg/L, with the highest concentration reported in TW-52 with 4,200 mg/L. All sampled wells exceeded the WQCC standard of 1,000 mg/L for TDS, with the highest concentration reported in TW-52 (7,560 mg/L). The groundwater monitor wells at the site have historically shown elevated TDS concentrations, which is attributable to the site's proximity to the Kutz Wash and shallow depth to groundwater.

December 2014 sampling geochemical data showed that chloride concentrations exceeded the WQCC standard of 250 mg/L in eight of the sampled wells, with the highest concentration being reported in TW-47 (1,500 mg/L). Fluoride concentrations were reported below the WQCC standard of 1.6 mg/L in all samples. Sulfate concentrations were above the WQCC standard of 600 mg/L in all sampled wells, with the highest concentration reported in TW-47 with 5,000 mg/L. All sampled wells exceeded the WQCC standard of 1,000 mg/L for TDS, with the highest concentration reported in TW-47 (8,630 mg/L).

Additionally, in December 2014, RCRA 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) exceeded the WQCC standard for arsenic (0.10 mg/L) in TW-53 with 0.24 mg/L and TW-54 with 0.13 mg/L. Otherwise, RCRA 8 metals were reported below the laboratory detection limit or the below the applicable WQCC standards in all sampled wells.

The RSI unit 295 was brought back online in May 2014. The system was in operation at the site through early November 2014, when it was removed from the site for the winter. Including the temporary additional RSI unit and projected estimates a total of approximately **35,381** lbs of petroleum hydrocarbons from have been mechanically removed from the site (as vapors) since system startup on March 10, 2010.

7.0 Recommendations and Scheduled Site Activities

AES is currently in the process of updating the sampling and monitoring plan for the site and will reflect current site conditions resulting from installation of phytoremediation areas and operations of the MPE system.

The following items are scheduled to occur during 2015:

1. An updated sampling and monitoring plan will be developed and submitted to NMOCD in June 2015.
2. In accordance with the conditions of the previous Interim Groundwater Sampling Plan approval by NMOCD, the quarterly groundwater and NAPL monitoring and gauging events will continue and were most recently conducted during April 2015.
3. The MPE remediation system will be re-activated in May 2015 after being placed in pulse mode through the winter months due to freezing conditions.

If you have any questions regarding this report or scheduled site activities, please do not hesitate to contact Brent Everett or Elizabeth McNally at (505) 564-2281.

Sincerely,

David J. Reese
Environmental Scientist

Brent Everett
Sr. Hydrogeologist

Elizabeth McNally, P.E.
New Mexico Registration #15799

Attachments:

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C:\Users\beverett\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM (1)\2015 Projects\Thriftway\810 Refinery\Reports and Workplans\Thriftway 810 Refinery 2014 Remedial Progress Report 051315.docx

Tables

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-1	15-Dec-08	5471.58		27.95		5443.63	6.24	2.772	7.51*	14.64	113.8	0.25
TW-1	26-Jan-09	5471.58		30.53		5441.05	NM	NM	NM	NM	NM	NM
TW-1	19-Aug-09	5471.58		30.73		5440.85	7.09	1.795	8.08	16.17	289.1	1.00
TW-1	19-Feb-10	5471.58		30.68		5440.90	NM	NM	NM	NM	NM	NM
TW-1	07-May-10	5471.58		30.43		5441.15	NM	NM	NM	NM	NM	NM
TW-1	18-Aug-10	5471.58		30.64		5440.94	NM	NM	NM	NM	NM	NM
TW-1	15-Nov-10	5471.58		30.88		5440.70	NM	NM	NM	NM	NM	NM
TW-1	17-Feb-11	5471.58		30.74		5440.84	NM	NM	NM	NM	NM	NM
TW-1	17-May-11	5471.58		30.62		5440.96	NM	NM	NM	NM	NM	NM
TW-1	22-Aug-11	5471.58		31.14		5440.44	NM	NM	NM	NM	NM	NM
TW-1	15-Nov-11	5471.58		31.11		5440.47	NM	NM	NM	NM	NM	NM
TW-1	29-Feb-12	5471.58		30.96		5440.62	NM	NM	NM	NM	NM	NM
TW-1	11-May-12	5471.58		30.81		5440.77	NM	NM	NM	NM	NM	NM
TW-1	08-Aug-12	5471.58		31.28		5440.30	NM	NM	NM	NM	NM	NM
TW-1	02-Nov-12	5471.58		31.39		5440.19	NM	NM	NM	NM	NM	NM
TW-1	05-Feb-13	5471.58		31.24		5440.34	NM	NM	NM	NM	NM	NM
TW-1	07-May-13	5471.58		31.00		5440.58	NM	NM	NM	NM	NM	NM
TW-1	05-Aug-13	5471.58		31.48		5440.10	NM	NM	NM	NM	NM	NM
TW-1	21-Nov-13	5471.58		31.38		5440.20	NM	NM	NM	NM	NM	NM
TW-1	14-Feb-14	5471.58		31.27		5440.31	NM	NM	NM	NM	NM	NM
TW-1	21-May-14	5471.58		31.06		5440.52	NM	NM	NM	NM	NM	NM
TW-1	05-Aug-14	5471.58		31.52		5440.06	NM	NM	NM	NM	NM	NM
TW-1	05-Dec-14	5471.58		31.55		5440.03	NM	NM	NM	NM	NM	NM
TW-2	15-Dec-08	5469.31		28.91		5440.40	6.63	4.421	3.60	13.08	125.5	1.25
TW-2	26-Jan-09	5469.31		28.80		5440.51	NM	NM	NM	NM	NM	NM
TW-2	19-Aug-09	5469.31		28.97		5440.34	7.03	2.948	2.68	16.85	291.3	2.00

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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-2	19-Feb-10	5469.31		28.93		5440.38	NM	NM	NM	NM	NM	NM
TW-2	07-May-10	5469.31		28.71		5440.60	NM	NM	NM	NM	NM	NM
TW-2	18-Aug-10	5469.31		28.88		5440.43	NM	NM	NM	NM	NM	NM
TW-2	15-Nov-10	5469.31		29.11		5440.20	NM	NM	NM	NM	NM	NM
TW-2	17-Feb-11	5469.31		28.97		5440.34	NM	NM	NM	NM	NM	NM
TW-2	17-May-11	5469.31		28.85		5440.46	NM	NM	NM	NM	NM	NM
TW-2	22-Aug-11	5469.31		29.34		5439.97	NM	NM	NM	NM	NM	NM
TW-2	15-Nov-11	5469.31		29.33		5439.98	NM	NM	NM	NM	NM	NM
TW-2	29-Feb-12	5469.31		29.19		5440.12	NM	NM	NM	NM	NM	NM
TW-2	11-May-12	5469.31		29.04		5440.27	NM	NM	NM	NM	NM	NM
TW-2	08-Aug-12	5469.31		29.49		5439.82	NM	NM	NM	NM	NM	NM
TW-2	02-Nov-12	5469.31		29.61		5439.70	NM	NM	NM	NM	NM	NM
TW-2	05-Feb-13	5469.31		29.45		5439.86	NM	NM	NM	NM	NM	NM
TW-2	07-May-13	5469.31		29.22		5440.09	NM	NM	NM	NM	NM	NM
TW-2	05-Aug-13	5469.31		29.68		5439.63	NM	NM	NM	NM	NM	NM
TW-2	21-Nov-13	5469.31		29.60		5439.71	NM	NM	NM	NM	NM	NM
TW-2	14-Feb-14	5469.31		29.49		5439.82	NM	NM	NM	NM	NM	NM
TW-2	21-May-14	5469.31		29.30		5440.01	NM	NM	NM	NM	NM	NM
TW-2	05-Aug-14	5469.31		29.72		5439.59	NM	NM	NM	NM	NM	NM
TW-2	05-Dec-14	5469.31		29.79		5439.52	NM	NM	NM	NM	NM	NM
TW-3	15-Dec-08	5468.14		27.99		5440.15	6.63	4.249	2.01	14.44	-1.6	1.25
TW-3	26-Jan-09	5468.14		27.87		5440.27	NM	NM	NM	NM	NM	NM
TW-3	19-Aug-09	5468.14		28.05		5440.09	6.95	4.16	2.120	16.34	289.5	2.50
TW-3	19-Feb-10	5468.14		27.96		5440.18	NM	NM	NM	NM	NM	NM
TW-3	10-May-10	5468.14		27.73		5440.41	NM	NM	NM	NM	NM	NM
TW-3	18-Aug-10	5468.14		27.95		5440.19	NM	NM	NM	NM	NM	NM

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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-3	15-Nov-10	5468.14		28.16		5439.98	NM	NM	NM	NM	NM	NM
TW-3	17-Feb-11	5468.14		28.01		5440.13	NM	NM	NM	NM	NM	NM
TW-3	17-May-11	5468.14		27.88		5440.26	NM	NM	NM	NM	NM	NM
TW-3	22-Aug-11	5468.14		28.41		5439.73	NM	NM	NM	NM	NM	NM
TW-3	15-Nov-11	5468.14		28.67		5439.47	NM	NM	NM	NM	NM	NM
TW-3	29-Feb-12	5468.14		28.2		5439.94	NM	NM	NM	NM	NM	NM
TW-3	11-May-12	5468.14		28.07		5440.07	NM	NM	NM	NM	NM	NM
TW-3	08-Aug-12	5468.14		28.34		5439.80	NM	NM	NM	NM	NM	NM
TW-3	02-Nov-12	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'							
TW-3	05-Feb-13	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'							
TW-3	07-May-13	5468.14		28.23		5439.91	NM	NM	NM	NM	NM	NM
TW-3	05-Aug-13	5468.14		28.23	NOT MEASURED - ROOT GROWTH AT 28'							
TW-3	21-Nov-13	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'							
TW-3	14-Feb-14	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'							
TW-3	21-May-14	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'							
TW-3	05-Aug-14	5468.14		DRY			NM	NM	NM	NM	NM	NM
TW-3	05-Dec-14	5468.14		30.00		5438.14	NM	NM	NM	NM	NM	NM
TW-4	16-Dec-08	5458.72		19.16		5439.56	6.67	7.258	4.09	13.40	170.6	1.25
TW-4	26-Jan-09	5458.72		NM			NM	NM	NM	NM	NM	NM
TW-4	19-Aug-09	5458.72		19.22		5439.50	7.08	6.739	4.19	16.19	289.9	4.30
TW-4	19-Feb-10	5458.72		19.09		5439.63	NM	NM	NM	NM	NM	NM
TW-4	10-May-10	5458.72		18.86		5439.86	NM	NM	NM	NM	NM	NM
TW-4	18-Aug-10	5458.72		19.12		5439.60	NM	NM	NM	NM	NM	NM
TW-4	15-Nov-10	5458.72		19.31		5439.41	NM	NM	NM	NM	NM	NM
TW-4	17-Feb-11	5458.72		19.12		5439.60	NM	NM	NM	NM	NM	NM
TW-4	17-May-11	5458.72		19.01		5439.71	NM	NM	NM	NM	NM	NM

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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-4	22-Aug-11	5458.72		19.53		5439.19	NM	NM	NM	NM	NM	NM
TW-4	15-Nov-11	5458.72		19.50		5439.22	NM	NM	NM	NM	NM	NM
TW-4	29-Feb-12	5458.72		19.32		5439.40	NM	NM	NM	NM	NM	NM
TW-4	11-May-12	5458.72		19.17		5439.55	NM	NM	NM	NM	NM	NM
TW-4	08-Aug-12	5458.72		19.66		5439.06	NM	NM	NM	NM	NM	NM
TW-4	02-Nov-12	5458.72		19.77		5438.95	NM	NM	NM	NM	NM	NM
TW-4	05-Feb-13	5458.72		19.55		5439.17	NM	NM	NM	NM	NM	NM
TW-4	07-May-13	5458.72		19.33		5439.39	NM	NM	NM	NM	NM	NM
TW-4	05-Aug-13	5458.72		19.84		5438.88	NM	NM	NM	NM	NM	NM
TW-4	21-Nov-13	5458.72		19.77		5438.95	NM	NM	NM	NM	NM	NM
TW-4	14-Feb-14	5458.72		19.60		5439.12	NM	NM	NM	NM	NM	NM
TW-4	21-May-14	5458.72		19.43		5439.29	NM	NM	NM	NM	NM	NM
TW-4	05-Aug-14	5458.72		19.90		5438.82	NM	NM	NM	NM	NM	NM
TW-4	05-Dec-14	5458.72		19.92		5438.80	NM	NM	NM	NM	NM	NM
TW-5	15-Dec-08	5465.18		25.54		5439.64	6.56	3.704	3.26	14.25	16.0	1.25
TW-5	26-Jan-09	5465.18		25.44		5439.74	NM	NM	NM	NM	NM	NM
TW-5	19-Aug-09	5465.18		25.58		5439.60	6.96	3.636	5.53	16.55	298.9	3.60
TW-5	19-Feb-10	5465.18		25.53		5439.65	NM	NM	NM	NM	NM	NM
TW-5	10-May-10	5465.18		25.31		5439.87	NM	NM	NM	NM	NM	NM
TW-5	18-Aug-10	5465.18		25.49		5439.69	NM	NM	NM	NM	NM	NM
TW-5	15-Nov-10	5465.18		25.70		5439.48	NM	NM	NM	NM	NM	NM
TW-5	17-Feb-11	5465.18		25.55		5439.63	NM	NM	NM	NM	NM	NM
TW-5	17-May-11	5465.18		25.42		5439.76	NM	NM	NM	NM	NM	NM
TW-5	22-Aug-11	5465.18		25.89		5439.29	NM	NM	NM	NM	NM	NM
TW-5	15-Nov-11	5465.18		25.93		5439.25	NM	NM	NM	NM	NM	NM
TW-5	29-Feb-12	5465.18		25.77		5439.41	NM	NM	NM	NM	NM	NM

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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-5	11-May-12	5465.18		25.61		5439.57	NM	NM	NM	NM	NM	NM
TW-5	08-Aug-12	5465.18		26.05		5439.13	NM	NM	NM	NM	NM	NM
TW-5	02-Nov-12	5465.18		26.17		5439.01	NM	NM	NM	NM	NM	NM
TW-5	05-Feb-13	5465.18		26.00		5439.18	NM	NM	NM	NM	NM	NM
TW-5	05-Aug-13	5465.18		26.23		5438.95	NM	NM	NM	NM	NM	NM
TW-5	21-Nov-13	5465.18		26.18		5439.00	NM	NM	NM	NM	NM	NM
TW-5	14-Feb-14	5465.18		26.04		5439.14	NM	NM	NM	NM	NM	NM
TW-5	21-May-14	5465.18		25.86		5439.32	NM	NM	NM	NM	NM	NM
TW-5	05-Aug-14	5465.18		26.28		5438.90	NM	NM	NM	NM	NM	NM
TW-5	05-Dec-14	5465.18		28.36		5436.82	NM	NM	NM	NM	NM	NM
TW-6	15-Dec-08	5463.57		24.78		5438.79	6.50	4.719	0.99	14.50	9.0	1.25
TW-6	26-Jan-09	5463.57		24.67		5438.90	NM	NM	NM	NM	NM	NM
TW-6	19-Aug-09	5463.57		24.82		5438.75	6.95	4.535	1.81	16.24	295.6	4.00
TW-6	19-Feb-10	5463.57		24.74		5438.83	NM	NM	NM	NM	NM	NM
TW-6	10-May-10	5463.57		24.54		5439.03	NM	NM	NM	NM	NM	NM
TW-6	18-Aug-10	5463.57		24.73		5438.84	NM	NM	NM	NM	NM	NM
TW-6	15-Nov-10	5463.57		24.90		5438.67	NM	NM	NM	NM	NM	NM
TW-6	17-Feb-11	5463.57		24.57		5439.00	NM	NM	NM	NM	NM	NM
TW-6	17-May-11	5463.57		24.64		5438.93	NM	NM	NM	NM	NM	NM
TW-6	22-Aug-11	5463.57		25.10		5438.47	NM	NM	NM	NM	NM	NM
TW-6	15-Nov-11	5463.57		25.11		5438.46	NM	NM	NM	NM	NM	NM
TW-6	29-Feb-12	5463.57		24.94		5438.63	NM	NM	NM	NM	NM	NM
TW-6	11-May-12	5463.57		24.81		5438.76	NM	NM	NM	NM	NM	NM
TW-6	08-Aug-12	5463.57		25.23		5438.34	NM	NM	NM	NM	NM	NM
TW-6	02-Nov-12	5463.57		25.35		5438.22	NM	NM	NM	NM	NM	NM
TW-6	05-Feb-13	5463.57		25.19		5438.38	NM	NM	NM	NM	NM	NM

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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-6	07-May-13	5463.57		24.98		5438.59	NM	NM	NM	NM	NM	NM
TW-6	05-Aug-13	5463.57		29.42		5434.15	NM	NM	NM	NM	NM	NM
TW-6	21-Nov-13	5463.57		25.37		5438.20	NM	NM	NM	NM	NM	NM
TW-6	14-Feb-14	5463.57		25.22		5438.35	NM	NM	NM	NM	NM	NM
TW-6	21-May-14	5463.57		25.05		5438.52	NM	NM	NM	NM	NM	NM
TW-6	05-Aug-14	5463.57		25.46		5438.11	NM	NM	NM	NM	NM	NM
TW-6	05-Dec-14	5463.57		25.54		5438.03	NM	NM	NM	NM	NM	NM
TW-7	15-Dec-08	5461.17		22.25		5438.92	6.47	5.302	0.82	14.88	0.8	1.25
TW-7	26-Jan-09	5461.17		22.14		5439.03	NM	NM	NM	NM	NM	NM
TW-7	19-Aug-09	5461.17		22.25		5438.92	6.92	4.780	1.67	16.37	290.3	3.00
TW-7	19-Feb-10	5461.17		22.17		5439.00	NM	NM	NM	NM	NM	NM
TW-7	10-May-10	5461.17		21.97		5439.20	NM	NM	NM	NM	NM	NM
TW-7	18-Aug-10	5461.17		22.17		5439.00	NM	NM	NM	NM	NM	NM
TW-7	15-Nov-10	5461.17		22.37		5438.80	NM	NM	NM	NM	NM	NM
TW-7	17-Feb-11	5461.17		22.78		5438.39	NM	NM	NM	NM	NM	NM
TW-7	18-May-11	5461.17		22.10		5439.07	7.19	3.455	0.49	14.65	-21.8	2
TW-7	22-Aug-11	5461.17		22.55		5438.62	NM	NM	NM	NM	NM	NM
TW-7	17-Nov-11	5461.17		22.59		5438.58	7.25	3.321	1.66	11.31	-25.1	1.00
TW-7	29-Feb-12	5461.17		22.41		5438.76	NM	NM	NM	NM	NM	NM
TW-7	17-May-12	5461.17		22.28		5438.89	7.23	2.517	0.44	17.05	-24.5	NM
TW-7	08-Aug-12	5461.17		22.69		5438.48	NM	NM	NM	NM	NM	NM
TW-7	02-Nov-12	5461.17		22.83		5438.34	7.74	2.811	0.57	14.31	-53.2	2.0
TW-7	05-Feb-13	5461.17		22.64		5438.53	NM	NM	NM	NM	NM	NM
TW-7	09-May-13	5461.17		22.46		5438.71	7.31	1.860	0.54	16.12	-28.4	3.0
TW-7	05-Aug-13	5461.17		22.88		5438.29	NM	NM	NM	NM	NM	NM
TW-7	02-Dec-13	5461.17		22.90		5438.27	NM	NM	NM	NM	NM	NM

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TW-7	14-Feb-14	5461.17	22.62	22.85	0.23	5438.51	NM	NM	NM	NM	NM	NM
TW-7	21-May-14	5461.17	22.43	22.80	0.37	5438.68	NM	NM	NM	NM	NM	NM
TW-7	05-Aug-14	5461.17	22.69	23.77	1.08	5438.29	NM	NM	NM	NM	NM	NM
TW-7	10-Dec-14	5461.17	22.72	23.95	1.23	5438.24	NM	NM	NM	NM	NM	NM
TW-8	16-Dec-08	5458.29		19.76		5438.53	6.42	5.575	0.51	12.78	-258.2	1.25
TW-8	26-Jan-09	5458.29		19.62		5438.67	NM	NM	NM	NM	NM	NM
TW-8	20-Aug-09	5458.29		19.88		5438.41	7.12	4.523	1.40	14.52	264.7	4.00
TW-8	19-Feb-10	5458.29		19.59		5438.70	NM	NM	NM	NM	NM	NM
TW-8	10-May-10	5458.29		19.73		5438.56	NM	NM	NM	NM	NM	NM
TW-8	18-Aug-10	5458.29		19.72		5438.57	NM	NM	NM	NM	NM	NM
TW-8	15-Nov-10	5458.29		19.87		5438.42	NM	NM	NM	NM	NM	NM
TW-8	17-Feb-11	5458.29		20.21		5438.08	NM	NM	NM	NM	NM	NM
TW-8	18-May-11	5458.29		19.59		5438.70	7.13	4.364	0.25	13.05	-18.3	2
TW-8	22-Aug-11	5458.29		20.12		5438.17	NM	NM	NM	NM	NM	NM
TW-8	15-Nov-11	5458.29		20.03		5438.26	NM	NM	NM	NM	NM	NM
TW-8	19-Feb-12	5458.29		19.83		5438.46	NM	NM	NM	NM	NM	NM
TW-8	17-May-12	5458.29		19.75		5438.54	7.19	2.791	0.09	14.53	-21.6	NM
TW-8	08-Aug-12	5458.29		20.23		5438.06	NM	NM	NM	NM	NM	NM
TW-8	02-Nov-12	5458.29		20.30		5437.99	7.83	3.298	1.00	14.47	-58.9	3.6
TW-8	05-Feb-13	5458.29		20.02		5438.27	NM	NM	NM	NM	NM	NM
TW-8	09-May-13	5458.29		19.84		5438.45	7.13	1.633	0.31	14.07	-18.6	3.0
TW-8	05-Aug-13	5458.29		20.42		5437.87	NM	NM	NM	NM	NM	NM
TW-8	02-Dec-13	5458.29		20.27		5438.02	7.86	1.219	0.44	10.98	-216.1	NM
TW-8	14-Feb-14	5458.29		20.04		5438.25	NM	NM	NM	NM	NM	NM
TW-8	29-May-14	5458.29		19.96		5438.33	7.58	2.000	0.32	12.12	64.4	3.7
TW-8	05-Aug-14	5458.29		20.48		5437.81	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-8	10-Dec-14	5458.29		20.41		5437.88	7.50	4.124	0.22	11.14	252.7	3
TW-9	16-Dec-08	5450.61		12.20		5438.41	6.90	3.473	2.27	14.53	15.6	1.25
TW-9	26-Jan-09	5450.61		12.05		5438.56	NM	NM	NM	NM	NM	NM
TW-9	20-Aug-09	5450.61		12.49		5438.12	7.57	2.397	1.33	16.93	269.2	2.50
TW-9	19-Feb-10	5450.61		11.99		5438.62	NM	NM	NM	NM	NM	NM
TW-9	10-May-10	5450.61		11.89		5438.72	NM	NM	NM	NM	NM	NM
TW-9	18-Aug-10	5450.61		12.30		5438.31	NM	NM	NM	NM	NM	NM
TW-9	15-Nov-10	5450.61		12.36		5438.25	NM	NM	NM	NM	NM	NM
TW-9	17-Feb-11	5450.61		12.09		5438.52	NM	NM	NM	NM	NM	NM
TW-9	17-May-11	5450.61		12.13		5438.48	NM	NM	NM	NM	NM	NM
TW-9	22-Aug-11	5450.61		12.77		5437.84	NM	NM	NM	NM	NM	NM
TW-9	15-Nov-11	5450.61		12.54		5438.07	NM	NM	NM	NM	NM	NM
TW-9	29-Feb-12	5450.61		12.28		5438.33	NM	NM	NM	NM	NM	NM
TW-9	11-May-12	5450.61		12.27		5438.34	NM	NM	NM	NM	NM	NM
TW-9	08-Aug-12	5450.61		12.85		5437.76	NM	NM	NM	NM	NM	NM
TW-9	02-Nov-12	5450.61		12.82		5437.79	NM	NM	NM	NM	NM	NM
TW-9	05-Feb-13	5450.61		12.43		5438.18	NM	NM	NM	NM	NM	NM
TW-9	07-May-13	5450.61		12.33		5438.28	NM	NM	NM	NM	NM	NM
TW-9	05-Aug-13	5450.61		13.04		5437.57	NM	NM	NM	NM	NM	NM
TW-9	21-Nov-13	5450.61		12.74		5437.87	NM	NM	NM	NM	NM	NM
TW-9	14-Feb-14	5450.61		12.46		5438.15	NM	NM	NM	NM	NM	NM
TW-10	29-May-14	5450.61		12.51		5438.10	NM	NM	NM	NM	NM	NM
TW-9	05-Aug-14	5450.61		13.13		5437.48	NM	NM	NM	NM	NM	NM
TW-9	05-Dec-14	5450.61		12.87		5437.74	NM	NM	NM	NM	NM	NM
TW-10	16-Dec-08	5450.16		12.42		5437.74	6.49	3.876	0.98	11.97	-189.3	1.25

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-10	26-Jan-09	5450.16		12.25		5437.91	NM	NM	NM	NM	NM	NM
TW-10	20-Aug-09	5450.16		12.70		5437.46	7.37	4.019	1.42	16.75	254.7	4.00
TW-10	19-Feb-10	5450.16		12.19		5437.97	NM	NM	NM	NM	NM	NM
TW-10	10-May-10	5450.16		12.15		5438.01	NM	NM	NM	NM	NM	NM
TW-10	18-Aug-10	5450.16		12.52		5437.64	NM	NM	NM	NM	NM	NM
TW-10	15-Nov-10	5450.16		12.54		5437.62	NM	NM	NM	NM	NM	NM
TW-10	17-Feb-11	5450.16		12.87		5437.29	NM	NM	NM	NM	NM	NM
TW-10	17-May-11	5450.16		12.36		5437.80	NM	NM	NM	NM	NM	NM
TW-10	22-Aug-11	5450.16		12.94		5437.22	NM	NM	NM	NM	NM	NM
TW-10	15-Nov-11	5450.16		12.73		5437.43	NM	NM	NM	NM	NM	NM
TW-10	29-Feb-12	5450.16		12.49		5437.67	NM	NM	NM	NM	NM	NM
TW-10	11-May-12	5450.16		12.48		5437.68	NM	NM	NM	NM	NM	NM
TW-10	08-Aug-12	5450.16		13.04		5437.12	NM	NM	NM	NM	NM	NM
TW-10	02-Nov-12	5450.16		12.96		5437.20	NM	NM	NM	NM	NM	NM
TW-10	05-Feb-13	5450.16		12.60		5437.56	NM	NM	NM	NM	NM	NM
TW-10	07-May-13	5450.16		12.53		5437.63	NM	NM	NM	NM	NM	NM
TW-10	05-Aug-13	5450.16		13.20		5436.96	NM	NM	NM	NM	NM	NM
TW-10	21-Nov-13	5450.16		13.20		5436.96	NM	NM	NM	NM	NM	NM
TW-10	14-Feb-14	5450.16		12.62		5437.54	NM	NM	NM	NM	NM	NM
TW-10	21-May-14	5450.16		12.71		5437.45	NM	NM	NM	NM	NM	NM
TW-10	05-Aug-14	5450.16		13.29		5436.87	NM	NM	NM	NM	NM	NM
TW-10	05-Dec-14	5450.16		13.02		5437.14	NM	NM	NM	NM	NM	NM
TW-11	16-Dec-08	5456.31		18.12		5438.19	6.75	6.941	1.41	14.32	72.0	1.25
TW-11	26-Jan-09	5456.31		18.02		5438.29	NM	NM	NM	NM	NM	NM
TW-11	20-Aug-09	5456.31		18.22		5438.09	7.43	6.704	2.52	15.35	261.4	4.00
TW-11	17-Feb-10	5456.31		18.04		5438.27	7.14	10.42	3.98	12.88	49.7	4.20

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*	*Corrected GW (ft)*	*pH*	*Conductivity (mS)*	*Dissolved Oxygen (mg/L)*	*Temp. (°C)*	*ORP (mV)*	*Purge Volume (gallons)*
TW-11	11-May-10	5456.31		17.89		5438.42	7.22	6.44	2.32	13.25	232.1	3.75
TW-11	18-Aug-10	5456.31		18.04		5438.27	NM	NM	NM	NM	NM	NM
TW-11	15-Nov-10	5456.31		18.24		5438.07	NM	NM	NM	NM	NM	NM
TW-11	17-Feb-11	5456.31		18.15		5438.16	NM	NM	NM	NM	NM	NM
TW-11	17-May-11	5456.31		18.01		5438.30	NM	NM	NM	NM	NM	NM
TW-11	23-Aug-11	5456.31		18.43		5437.88	NM	NM	NM	NM	NM	NM
TW-11	17-Nov-11	5456.31		18.44		5437.87	7.36	5.238	2.92	13.92	-31.4	1.00
TW-11	29-Feb-12	5456.31		18.25		5438.06	NM	NM	NM	NM	NM	NM
TW-11	11-May-12	5456.31		18.18		5438.13	NM	NM	NM	NM	NM	NM
TW-11	08-Aug-12	5456.31		18.56		5437.75	NM	NM	NM	NM	NM	NM
TW-11	02-Nov-12	5456.31		18.68		5437.63	NM	NM	NM	NM	NM	NM
TW-11	05-Feb-13	5456.31		18.46		5437.85	NM	NM	NM	NM	NM	NM
TW-11	07-May-13	5456.31		18.32		5437.99	NM	NM	NM	NM	NM	NM
TW-11	05-Aug-13	5456.31		18.75		5437.56	NM	NM	NM	NM	NM	NM
TW-11	21-Nov-13	5456.31		18.68		5437.63	NM	NM	NM	NM	NM	NM
TW-11	14-Feb-14	5456.31		18.48		5437.83	NM	NM	NM	NM	NM	NM
TW-11	21-May-14	5456.31		18.37		5437.94	NM	NM	NM	NM	NM	NM
TW-11	05-Aug-14	5456.31		18.79		5437.52	NM	NM	NM	NM	NM	NM
TW-11	05-Dec-14	5456.31		18.83		5437.48	NM	NM	NM	NM	NM	NM
TW-12	15-Dec-08	5460.44		22.44		5438.00	6.49	4.247	0.95	16.15	-97.3	1.25
TW-12	26-Jan-09	5460.44	22.34	22.44	0.10	5438.08	NM	NM	NM	NM	NM	NM
TW-12	20-Aug-09	5460.44		22.50		5437.94	7.02	3.881	2.34	17.09	266.5	2.50
TW-12	17-Feb-10	5460.44		22.39		5438.05	6.94	5.727	1.46	15.59	206.2	3.00
TW-12	11-May-10	5460.44		22.21		5438.23	7.05	3.295	0.76	15.56	217.9	3.75
TW-12	19-Aug-10	5460.44		22.39		5438.05	6.93	3.343	0.55	16.74	399.3	2.50
TW-12	15-Nov-10	5460.44		22.54		5437.90	6.93	3.343	0.55	16.74	399.3	2.50

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-12	17-Feb-11	5460.44		22.39		5438.05	NM	NM	NM	NM	NM	NM
TW-12	17-May-11	5460.44		22.30		5438.14	NM	NM	NM	NM	NM	NM
TW-12	22-Aug-11	5460.44		22.73		5437.71	NM	NM	NM	NM	NM	NM
TW-12	16-Nov-11	5460.44		22.74		5437.70	NM	NM	NM	NM	NM	NM
TW-12	28-Feb-12	5460.44		22.57		5437.87	NM	NM	NM	NM	NM	NM
TW-12	11-May-12	5460.44	22.46	22.53	0.07	5437.97	NM	NM	NM	NM	NM	NM
TW-12	08-Aug-12	5460.44	22.83	23.11	0.28	5437.56	NM	NM	NM	NM	NM	NM
TW-12	12-Nov-12	5460.44	22.95	23.00	0.05	5437.48	NM	NM	NM	NM	NM	NM
TW-12	05-Feb-13	5460.44	22.76	22.94	0.18	5437.65	NM	NM	NM	NM	NM	NM
TW-12	07-May-13	5460.44	22.61	22.75	0.14	5437.81	NM	NM	NM	NM	NM	NM
TW-12	05-Aug-13	5460.44	22.96	23.33	0.37	5437.42	NM	NM	NM	NM	NM	NM
TW-12	21-Nov-13	5460.44	22.92	23.21	0.29	5437.47	NM	NM	NM	NM	NM	NM
TW-12	14-Feb-14	5460.44	22.78	22.94	0.16	5437.63	NM	NM	NM	NM	NM	NM
TW-12	21-May-14	5460.44	22.65	22.74	0.09	5437.77	NM	NM	NM	NM	NM	NM
TW-12	05-Aug-14	5460.44	23.02	23.30	0.28	5437.37	NM	NM	NM	NM	NM	NM
TW-12	05-Dec-14	5460.44	23.06	23.46	0.40	5437.31	NM	NM	NM	NM	NM	NM
TW-13	16-Dec-08	5458.17	20.64	21.48	0.84	5437.38	Not Sampled - NAPL Present					
TW-13	26-Jan-09	5458.17	20.52	21.46	0.94	5437.49	NM	NM	NM	NM	NM	NM
TW-13	12-Aug-09	5458.17	20.75	21.77	1.02	5437.24	NM	NM	NM	NM	NM	NM
TW-13	11-Nov-09	5458.17	20.76	21.86	1.10	5437.22	NM	NM	NM	NM	NM	NM
TW-13	15-Feb-10	5458.17	20.59	21.48	0.89	5437.43	NM	NM	NM	NM	NM	NM
TW-13	07-May-10	5458.17	20.44	21.03	0.59	5437.63	NM	NM	NM	NM	NM	NM
TW-13	21-Jun-10	5458.17	20.48	21.15	0.67	5437.57	NM	NM	NM	NM	NM	NM
TW-13	18-Aug-10	5458.17	20.77	21.15	0.38	5437.33	NM	NM	NM	NM	NM	NM
TW-13	15-Nov-10	5458.17	20.79	21.39	0.60	5437.28	NM	NM	NM	NM	NM	NM
TW-13	23-Feb-11	5458.17	20.58	21.50	0.92	5437.43	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-13	18-May-11	5458.17		20.66		5437.51	Not Sampled - Sheen of NAPL Present					
TW-13	23-Aug-11	5458.17	21.08	21.57	0.49	5437.01	Not Sampled - NAPL Present					
TW-13	16-Nov-11	5458.17	20.90	22.04	1.14	5437.07	Not Sampled - NAPL Present					
TW-13	29-Feb-12	5458.17	20.79	21.70	0.91	5437.22	Not Sampled - NAPL Present					
TW-13	29-Feb-12	5458.17	20.79	21.70	0.91	5437.22	Not Sampled - NAPL Present					
TW-13	11-May-12	5458.17	20.70	21.60	0.90	5437.31	Not Sampled - NAPL Present					
TW-13	08-Aug-12	5458.17	21.05	22.25	1.20	5436.91	NM	NM	NM	NM	NM	NM
TW-13	12-Nov-12	5458.17	21.05	22.35	1.30	5436.90	NM	NM	NM	NM	NM	NM
TW-13	05-Feb-13	5458.17	20.91	22.02	1.11	5437.07	NM	NM	NM	NM	NM	NM
TW-13	07-May-13	5458.17	20.80	21.75	0.95	5437.21	NM	NM	NM	NM	NM	NM
TW-13	05-Aug-13	5458.17	21.20	22.43	1.23	5436.76	NM	NM	NM	NM	NM	NM
TW-13	03-Dec-13	5458.17	21.10	22.21	1.11	5436.88	NM	NM	NM	NM	NM	NM
TW-13	14-Feb-14	5458.17	20.85	20.95	0.10	5437.30	NM	NM	NM	NM	NM	NM
TW-13	21-May-14	5458.17	20.84	21.69	0.85	5437.18	NM	NM	NM	NM	NM	NM
TW-13	05-Aug-14	5458.17	21.25	22.29	1.04	5436.74	NM	NM	NM	NM	NM	NM
TW-13	10-Dec-14	5458.17	21.25	22.15	0.90	5436.76	NM	NM	NM	NM	NM	NM
TW-14	16-Dec-08	5454.24		16.82		5437.42	Not Sampled - Sheen of NAPL present					
TW-14	26-Jan-09	5454.24	16.71	17.02	0.31	5437.48	NM	NM	NM	NM	NM	NM
TW-14	20-Aug-09	5454.24	16.89	17.02	0.13	5437.33	Not Sampled - NAPL present					
TW-14	11-Nov-09	5454.24	17.20	17.67	0.47	5436.96	NM	NM	NM	NM	NM	NM
TW-14	15-Feb-10	5454.24	16.98	17.22	0.24	5437.22	NM	NM	NM	NM	NM	NM
TW-14	11-May-10	5454.24		16.85	sheen	5437.39	7.25	3.49	0.11	16.95	214.6	NM
TW-14	18-Aug-10	5454.24	17.01	17.03	0.02	5437.23	NM	NM	NM	NM	NM	NM
TW-14	15-Nov-10	5454.24		17.17		5437.07	NM	NM	NM	NM	NM	NM
TW-14	17-Feb-11	5454.24	17.04	17.05	0.01	5437.20	NM	NM	NM	NM	NM	NM
TW-14	18-May-11	5454.24		16.99		5437.25	Not Sampled - Sheen of NAPL present					

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-14	23-Aug-11	5454.24		17.48		5436.76	NM	NM	NM	NM	NM	NM
TW-14	16-Nov-11	5454.24	17.34	17.99	0.65	5436.79	NM	NM	NM	NM	NM	NM
TW-14	29-Feb-12	5454.24	17.21	17.52	0.31	5436.98	NM	NM	NM	NM	NM	NM
TW-14	11-May-12	5454.24	17.16	17.27	0.11	5437.06	NM	NM	NM	NM	NM	NM
TW-14	08-Aug-12	5454.24	17.30	18.52	1.22	5436.73	NM	NM	NM	NM	NM	NM
TW-14	12-Nov-12	5454.24	17.42	18.81	1.39	5436.58	NM	NM	NM	NM	NM	NM
TW-14	05-Feb-13	5454.24	17.28	18.15	0.87	5436.81	NM	NM	NM	NM	NM	NM
TW-14	07-May-13	5454.24	17.22	17.70	0.48	5436.94	NM	NM	NM	NM	NM	NM
TW-14	05-Aug-13	5454.24	17.42	18.85	1.43	5436.57	NM	NM	NM	NM	NM	NM
TW-14	03-Dec-13	5454.24	17.4	18.64	1.24	5436.63	NM	NM	NM	NM	NM	NM
TW-14	19-Feb-14	5454.24	17.33	17.94	0.61	5436.80	NM	NM	NM	NM	NM	NM
TW-14	21-May-14	5454.24	17.27	17.60	0.33	5436.91	NM	NM	NM	NM	NM	NM
TW-14	05-Aug-14	5454.24	17.53	18.53	1.00	5436.54	NM	NM	NM	NM	NM	NM
TW-14	10-Dec-14	5454.24	17.56	18.71	1.15	5436.48	NM	NM	NM	NM	NM	NM
TW-15	16-Dec-08	5450.44		13.15		5437.29	6.69	6.647	1.25	13.17	-176.5	1.25
TW-15	26-Jan-09	5450.44		12.99		5437.45	NM	NM	NM	NM	NM	NM
TW-15	20-Aug-09	5450.44		13.35		5437.09	7.26	6.056	3.64	16.49	320.0	4.30
TW-15	17-Feb-10	5450.44		12.93		5437.51	NM	NM	NM	NM	NM	NM
TW-15	10-May-10	5450.44		12.86		5437.58	NM	NM	NM	NM	NM	NM
TW-15	18-Aug-10	5450.44		13.21		5437.23	NM	NM	NM	NM	NM	NM
TW-15	15-Nov-10	5450.44		13.24		5437.20	NM	NM	NM	NM	NM	NM
TW-15	17-Feb-11	5450.44		13.05		5437.39	NM	NM	NM	NM	NM	NM
TW-15	17-May-11	5450.44		13.09		5437.35	NM	NM	NM	NM	NM	NM
TW-15	23-Aug-11	5450.44		13.58		5436.86	NM	NM	NM	NM	NM	NM
TW-15	16-Nov-11	5450.44		13.42		5437.02	NM	NM	NM	NM	NM	NM
TW-15	29-Feb-12	5450.44		13.19		5437.25	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-15	17-May-12	5450.44		13.20		5437.24	7.32	3.593	0.85	14.09	-29.0	NM
TW-15	08-Aug-12	5450.44		13.70		5436.74	NM	NM	NM	NM	NM	NM
TW-15	02-Nov-12	5450.44		13.61		5436.83	NM	NM	NM	NM	NM	NM
TW-15	05-Feb-13	5450.44		13.34		5437.10	NM	NM	NM	NM	NM	NM
TW-15	09-May-13	5450.44		13.28		5437.16	7.34	1.938	0.49	13.31	-30.3	3.0
TW-15	05-Aug-13	5450.44		13.86		5436.58	NM	NM	NM	NM	NM	NM
TW-15	21-Nov-13	5450.44		13.60		5436.84	NM	NM	NM	NM	NM	NM
TW-15	19-Feb-14	5450.44		13.37		5437.07	NM	NM	NM	NM	NM	NM
TW-15	29-May-14	5450.44		13.40		5437.04	7.64	3.173	0.22	14.37	58.4	4.3
TW-15	05-Aug-14	5450.44		13.92		5436.52	NM	NM	NM	NM	NM	NM
TW-15	05-Dec-14	5450.44		13.75		5436.69	NM	NM	NM	NM	NM	NM
TW-16	16-Dec-08	5448.45		8.76		5439.69	6.71	6.593	1.64	14.90	7.3	1.25
TW-16	26-Jan-09	5448.45		11.11		5437.34	NM	NM	NM	NM	NM	NM
TW-16	20-Aug-09	5448.45		11.85		5436.60	7.40	6.025	3.66	16.57	285.2	1.00
TW-16	17-Feb-10	5448.45		11.10		5437.35	NM	NM	NM	NM	NM	NM
TW-16	17-May-10	5448.45		11.25		5437.2	7.33	3.684	2.19	13.64	227.1	3.75
TW-16	18-Aug-10	5448.45		11.45		5437.00	NM	NM	NM	NM	NM	NM
TW-16	15-Nov-10	5448.45		11.52		5436.93	NM	NM	NM	NM	NM	NM
TW-16	17-Feb-11	5448.45		11.21		5437.24	NM	NM	NM	NM	NM	NM
TW-16	17-May-11	5448.45		11.32		5437.13	NM	NM	NM	NM	NM	NM
TW-16	22-Aug-11	5448.45		11.23		5437.22	NM	NM	NM	NM	NM	NM
TW-16	16-Nov-11	5448.45		11.67		5436.78	NM	NM	NM	NM	NM	NM
TW-16	29-Feb-12	5448.45		11.44		5437.01	NM	NM	NM	NM	NM	NM
TW-16	11-May-12	5448.45		11.54		5436.91	NM	NM	NM	NM	NM	NM
TW-16	08-Aug-12	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	02-Nov-12	5448.45	Not Measured - Root Growth at 11.0'									

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-16	05-Feb-13	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	07-May-13	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	07-May-13	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	05-Aug-13	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	21-Nov-13	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	19-Feb-14	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	21-May-14	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	05-Aug-14	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	05-Dec-14	5448.45		11.22			NM	NM	NM	NM	NM	NM
TW-17	16-Dec-08	5446.24		9.99		5436.25	6.68	6.643	1.26	14.10	-31.3	1.25
TW-17	26-Jan-09	5446.24		9.82		5436.42	NM	NM	NM	NM	NM	NM
TW-17	21-Aug-09	5446.24		10.31		5435.93	7.13	6.100	8.37	17.86	289.9	3.00
TW-17	17-Feb-10	5446.24		9.75		5436.49	NM	NM	NM	NM	NM	NM
TW-17	10-May-10	5446.24		9.83		5436.41	NM	NM	NM	NM	NM	NM
TW-17	18-Aug-10	5446.24		10.21		5436.03	NM	NM	NM	NM	NM	NM
TW-17	15-Nov-10	5446.24		10.18		5436.06	NM	NM	NM	NM	NM	NM
TW-17	17-Feb-11	5446.24		9.92		5436.32	NM	NM	NM	NM	NM	NM
TW-17	17-May-11	5446.24		10.03		5436.21	NM	NM	NM	NM	NM	NM
TW-17	22-Aug-11	5446.24		10.51		5435.73	NM	NM	NM	NM	NM	NM
TW-17	16-Nov-11	5446.24		10.29		5435.95	NM	NM	NM	NM	NM	NM
TW-17	29-Feb-12	5446.24		10.06		5436.18	NM	NM	NM	NM	NM	NM
TW-17	11-May-12	5446.24		10.13		5436.11	NM	NM	NM	NM	NM	NM
TW-17	08-Aug-12	5446.24		10.58		5435.66	NM	NM	NM	NM	NM	NM
TW-17	02-Nov-12	5446.24		14.42		5431.82	NM	NM	NM	NM	NM	NM
TW-17	05-Feb-13	5446.24		10.10		5436.14	NM	NM	NM	NM	NM	NM
TW-17	07-May-13	5446.24		10.15		5436.09	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-17	05-Aug-13	5446.24		10.71		5435.53	NM	NM	NM	NM	NM	NM
TW-17	21-Nov-13	5446.24		10.12		5436.12	NM	NM	NM	NM	NM	NM
TW-17	19-Feb-14	5446.24		10.07		5436.17	NM	NM	NM	NM	NM	NM
TW-17	21-May-14	5446.24		10.25		5435.99	NM	NM	NM	NM	NM	NM
TW-17	05-Aug-14	5446.24		10.77		5435.47	NM	NM	NM	NM	NM	NM
TW-17	05-Dec-14	5446.24		10.43		5435.81	NM	NM	NM	NM	NM	NM
TW-18	16-Dec-08	5452.73		16.40		5436.33	6.65	5.094	0.88	16.42	-170.9	1.25
TW-18	26-Jan-09	5452.73		16.29		5436.44	NM	NM	NM	NM	NM	NM
TW-18	21-Aug-09	5452.73		16.48		5436.25	6.94	5.273	7.64	17.32	285.8	4.00
TW-18	17-Feb-10	5452.73		16.21		5436.52	6.8	7.990	2.04	15.58	210	3.30
TW-18	10-May-10	5452.73		16.11		5436.62	7.1	4.830	0.75	15.40	222	3.75
TW-18	18-Aug-10	5452.73		16.31		5436.42	NM	NM	NM	NM	NM	NM
TW-18	16-Nov-10	5452.73		16.50		5436.23	7.1	4.730	0.82	16.85	-19	3.0
TW-18	17-Feb-11	5452.73		16.33		5436.40	NM	NM	NM	NM	NM	NM
TW-18	18-May-11	5452.73		16.30		5436.43	NM	NM	NM	NM	NM	NM
TW-18	23-Aug-11	5452.73		16.64		5436.09	NM	NM	NM	NM	NM	NM
TW-18	17-Nov-11	5452.73		16.66		5436.07	7.25	4.639	0.64	15.59	-25.1	1.0
TW-18	29-Feb-12	5452.73		16.48		5436.25	7.25	NM	NM	NM	NM	NM
TW-18	17-May-12	5452.73		16.41		5436.32	7.29	4.157	0.79	16.25	-27.7	NM
TW-18	08-Aug-12	5452.73		16.78		5435.95	NM	NM	NM	NM	NM	NM
TW-18	02-Nov-12	5452.73		16.87		5435.86	7.91	4.440	1.10	16.37	-62.2	3.0
TW-18	05-Feb-13	5452.73		16.65		5436.08	NM	NM	NM	NM	NM	NM
TW-18	07-May-13	5452.73		16.58		5436.15	NM	NM	NM	NM	NM	NM
TW-18	05-Aug-13	5452.73		16.95		5435.78	NM	NM	NM	NM	NM	NM
TW-18	03-Dec-13	5452.73		16.83		5435.90	8.00	2.448	0.23	14.33	84.8	NM
TW-18	19-Feb-14	5452.73		16.62		5436.11	NM	NM	NM	NM	NM	NM

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SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-18	21-May-14	5452.73		16.59		5436.14	NM	NM	NM	NM	NM	NM
TW-18	05-Aug-14	5452.73		16.96		5435.77	NM	NM	NM	NM	NM	NM
TW-18	10-Dec-14	5452.73		16.95		5435.78	7.70	6.835	0.20	14.93	96.3	3.0
TW-19	16-Dec-08	5458.49	22.15	22.62	0.47	5436.26	Not Sampled - NAPL Present					
TW-19	26-Jan-09	5458.49	22.01	22.57	0.56	5436.38	NM	NM	NM	NM	NM	NM
TW-19	13-Aug-09	5458.49	22.13	22.86	0.73	5436.23	Not Sampled - NAPL present					
TW-19	11-Nov-09	5458.49	TW damaged by demolition work									
TW-19	15-Feb-10	5458.49	TW damaged by demolition work									
TW-19	07-May-10	5458.49	17.45	17.52	0.07	5441.03	NM	NM	NM	NM	NM	NM
TW-19	18-Aug-10	5458.49		17.66	Sheen	5440.83	NM	NM	NM	NM	NM	NM
TW-19	15-Nov-10	5458.49	17.79	18.02	0.23	5440.66	NM	NM	NM	NM	NM	NM
TW-19	17-Feb-11	5458.49	Attached to RSI Unit									
TW-19	18-May-11	5458.49		17.63		5440.86	Not Sampled - Sheen of NAPL Present					
TW-19	23-Aug-11	5458.49	17.84	18.34	0.50	5440.56	Not Sampled - NAPL Present					
TW-19	16-Nov-11	5458.49	17.90	18.60	0.70	5440.47	Not Sampled - NAPL Present					
TW-19	29-Feb-12	5458.49	17.74	18.11	0.37	5440.69	Not Sampled - NAPL Present					
TW-19	11-May-12	5458.49	17.70	17.84	0.14	5440.77	Not Sampled - NAPL Present					
TW-19	08-Aug-12	5458.49	17.93	18.57	0.64	5440.45	NM	NM	NM	NM	NM	NM
TW-19	14-Nov-12	5458.49	17.91	18.95	1.04	5440.40	NM	NM	NM	NM	NM	NM
TW-19	06-Feb-13	5458.49	17.86	18.43	0.57	5440.53	NM	NM	NM	NM	NM	NM
TW-19	07-May-13	5458.49	17.85	18.34	0.49	5440.56	NM	NM	NM	NM	NM	NM
TW-19	05-Aug-13	5458.49	18.03	18.96	0.93	5440.30	NM	NM	NM	NM	NM	NM
TW-19	03-Dec-13	5458.49	18.01	18.79	0.78	5440.35	NM	NM	NM	NM	NM	NM
TW-19	19-Feb-14	5458.49	17.90	18.22	0.32	5440.53	NM	NM	NM	NM	NM	NM
TW-19	21-May-14	5458.49	17.83	18.03	0.20	5440.63	NM	NM	NM	NM	NM	NM
TW-19	05-Aug-14	5458.49	18.07	18.80	0.73	5440.29	NM	NM	NM	NM	NM	NM

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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-19	10-Dec-14	5458.49	18.13	18.85	0.72	5440.24	NM	NM	NM	NM	NM	NM
TW-20	17-Dec-08	5453.74	15.14	15.86	0.72	5438.48	Not Sampled - NAPL Present					
TW-20	26-Jan-09	5453.74	17.36	18.62	1.26	5436.16	NM	NM	NM	NM	NM	NM
TW-20	13-Aug-09	5453.74	17.64	19.17	1.53	5435.84	Not Sampled - NAPL present					
TW-20	11-Nov-09	5453.74	17.52	19.45	1.93	5435.89	NM	NM	NM	NM	NM	NM
TW-20	15-Feb-10	5453.74	17.4	18.73	1.33	5436.11	NM	NM	NM	NM	NM	NM
TW-20	07-May-10	5453.74	17.28	18.25	0.97	5436.29	NM	NM	NM	NM	NM	NM
TW-20	07-May-10	5453.74	17.28	18.25	0.97	5436.29	NM	NM	NM	NM	NM	NM
TW-20	18-Aug-10	5453.74	Attached to RSI Unit									
TW-20	15-Nov-10	5453.74	17.56	18.88	1.32	5435.95	NM	NM	NM	NM	NM	NM
TW-20	17-Feb-11	5453.74	Attached to RSI Unit									
TW-20	17-May-11	5453.74	17.40	17.45	0.05	5436.33	Not Sampled - NAPL Present					
TW-20	23-Aug-11	5453.74	17.87	19.40	1.53	5435.61	Not Sampled - NAPL Present					
TW-20	16-Nov-11	5453.74	17.64	19.60	1.96	5435.76	Not Sampled - NAPL Present					
TW-20	29-Feb-12	5453.74	17.55	19.02	1.47	5435.94	Not Sampled - NAPL Present					
TW-20	11-May-12	5453.74	17.47	18.88	1.41	5436.03	Not Sampled - NAPL Present					
TW-20	08-Aug-12	5453.74	17.95	18.32	0.37	5435.73	NM	NM	NM	NM	NM	NM
TW-20	14-Nov-12	5453.74	17.73	18.90	1.17	5435.81	NM	NM	NM	NM	NM	NM
TW-20	06-Feb-13	5453.74	17.62	19.51	1.89	5435.79	NM	NM	NM	NM	NM	NM
TW-20	07-May-13	5453.74	17.57	19.12	1.55	5435.90	NM	NM	NM	NM	NM	NM
TW-20	05-Aug-13	5453.74	17.91	20.46	2.55	5435.39	NM	NM	NM	NM	NM	NM
TW-20	03-Dec-13	5453.74	17.80	19.91	2.11	5435.57	NM	NM	NM	NM	NM	NM
TW-20	19-Feb-14	5453.74	17.70	19.11	1.41	5435.80	NM	NM	NM	NM	NM	NM
TW-20	21-May-14	5453.74	17.64	18.95	1.31	5435.87	NM	NM	NM	NM	NM	NM
TW-20	05-Aug-14	5453.74	17.89	20.28	2.39	5435.44	NM	NM	NM	NM	NM	NM
TW-20	10-Dec-14	5453.74	17.98	18.51	0.53	5435.67	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*	*Corrected GW (ft)*	*pH*	*Conductivity (mS)*	*Dissolved Oxygen (mg/L)*	*Temp. (°C)*	*ORP (mV)*	*Purge Volume (gallons)*
TW-21	17-Dec-08	5451.85	15.42	17.19	1.77	5436.12	Not Sampled - NAPL Present					
TW-21	26-Jan-09	5451.85	16.35	16.94	0.59	5435.40	NM	NM	NM	NM	NM	NM
TW-21	13-Aug-09	5451.85	16.50	16.94	0.44	5435.27	Not Sampled - NAPL present					
TW-21	12-Nov-09	5451.85	TW damaged by demolition work									
TW-21	15-Feb-10	5451.85	TW damaged by demolition work									
TW-21	07-May-10	5451.85	TW damaged by demolition work									
TW-21	18-Aug-10	5451.85	TW damaged by demolition work									
TW-21	15-Nov-10	5451.85	TW damaged by demolition work									
TW-21	23-Feb-11	5451.85	TW damaged by demolition work									
TW-21	17-May-11	5451.85	TW damaged by demolition work									
TW-21	23-Aug-11	5451.85	TW damaged by demolition work									
TW-21	16-Nov-11	5451.85	TW damaged by demolition work									
TW-21	29-Feb-12	5451.85	TW damaged by demolition work									
TW-21	14-May-12	5451.85	TW damaged by demolition work									
TW-21	08-Aug-12	5451.85	16.78	17.60	0.82	5434.93	NM	NM	NM	NM	NM	NM
TW-21	14-Nov-12	5451.85	16.77	17.84	1.07	5434.89	NM	NM	NM	NM	NM	NM
TW-21	06-Feb-13	5451.85	16.70	17.47	0.77	5435.02	NM	NM	NM	NM	NM	NM
TW-21	14-May-13	5451.85	16.71	17.05	0.34	5435.08	NM	NM	NM	NM	NM	NM
TW-21	12-Aug-13	5451.85	16.90	18.00	1.10	5434.76	NM	NM	NM	NM	NM	NM
TW-21	21-Nov-13	5451.85	16.86	17.73	0.87	5434.84	NM	NM	NM	NM	NM	NM
TW-21	19-Feb-14	5451.85	16.74	17.03	0.29	5435.06	NM	NM	NM	NM	NM	NM
TW-21	21-May-14	5451.85	16.68	16.75	0.07	5435.16	NM	NM	NM	NM	NM	NM
TW-21	05-Aug-14	5451.85	16.86	17.55	0.69	5434.87	NM	NM	NM	NM	NM	NM
TW-21	05-Dec-14	5451.85	16.90	17.77	0.87	5434.80	NM	NM	NM	NM	NM	NM
TW-22	17-Dec-08	5450.19	14.75	14.76	0.01	5435.44	Not Sampled - NAPL Present					

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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-22	26-Jan-09	5450.19	14.69	15.26	0.57	5435.40	NM	NM	NM	NM	NM	NM
TW-22	13-Aug-09	5450.19	14.79	15.39	0.60	5435.30	Not Sampled - NAPL present					
TW-22	12-Nov-09	5450.19	14.88	15.58	0.70	5435.19	NM	NM	NM	NM	NM	NM
TW-22	15-Feb-10	5450.19	14.72	15.03	0.31	5435.42	NM	NM	NM	NM	NM	NM
TW-22	07-May-10	5450.19	14.63	14.73	0.10	5435.54	NM	NM	NM	NM	NM	NM
TW-22	18-Aug-10	5450.19	14.74	15.01	0.27	5435.40	NM	NM	NM	NM	NM	NM
TW-22	15-Nov-10	5450.19	14.94	15.14	0.20	5435.22	NM	NM	NM	NM	NM	NM
TW-22	23-Feb-11	5450.19	14.80	15.14	0.34	5435.33	NM	NM	NM	NM	NM	NM
TW-22	17-May-11	5450.19	14.79	15.02	0.23	5435.36	Not Sampled - NAPL Present					
TW-22	23-Aug-11	5450.19	15.13	15.16	0.03	5435.05	Not Sampled - NAPL Present					
TW-22	16-Nov-11	5450.19	15.10	15.62	0.52	5435.00	Not Sampled - NAPL Present					
TW-22	29-Feb-12	5450.19	14.96	15.30	0.34	5435.17	Not Sampled - NAPL Present					
TW-22	14-May-12	5450.19	14.87	15.12	0.25	5435.28	Not Sampled - NAPL Present					
TW-22	08-Aug-12	5450.19	15.10	15.70	0.60	5434.99	Not Sampled - NAPL Present					
TW-22	14-Nov-12	5450.19	15.20	15.85	0.65	5434.88	Not Sampled - NAPL Present					
TW-22	06-Feb-13	5450.19	15.12	15.36	0.24	5435.03	NM	NM	NM	NM	NM	NM
TW-22	14-May-13	5450.19	15.12	15.35	0.23	5435.03	NM	NM	NM	NM	NM	NM
TW-22	12-Aug-13	5450.19	15.30	16.15	0.85	5434.74	NM	NM	NM	NM	NM	NM
TW-22	03-Dec-13	5450.19	15.23	15.58	0.35	5434.90	NM	NM	NM	NM	NM	NM
TW-22	19-Feb-14	5450.19	15.11	15.14	0.03	5435.07	NM	NM	NM	NM	NM	NM
TW-22	29-May-14	5450.19		15.08		5435.11	7.58	2.744	0.05	16.63	89.3	3.0
TW-22	05-Aug-14	5450.19	15.29	15.79	0.50	5434.81	NM	NM	NM	NM	NM	NM
TW-22	10-Dec-14	5450.19	15.35	15.55	0.20	5434.81	NM	NM	NM	NM	NM	NM
TW-23	18-Dec-08	5443.64		6.60		5437.04	7.09	6.727	3.77	13.65	-138.4	1.25
TW-23	26-Jan-08	5443.64		8.73		5434.91	NM	NM	NM	NM	NM	NM
TW-23	21-Aug-09	5443.64		9.07		5434.57	7.17	7.95	5.40	18.47	286.8	3.00

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-23	17-Feb-10	5443.64		8.61		5435.03	NM	NM	NM	NM	NM	NM
TW-23	10-May-10	5443.64		8.64		5435.00	NM	NM	NM	NM	NM	NM
TW-23	18-Aug-10	5443.64		8.94		5434.70	NM	NM	NM	NM	NM	NM
TW-23	15-Nov-10	5443.64		9.10		5434.54	NM	NM	NM	NM	NM	NM
TW-23	17-Feb-11	5443.64		9.51		5434.13	NM	NM	NM	NM	NM	NM
TW-23	17-May-11	5443.64		8.99		5434.65	NM	NM	NM	NM	NM	NM
TW-23	22-Aug-11	5443.64		9.05		5434.59	NM	NM	NM	NM	NM	NM
TW-23	16-Nov-11	5443.64		9.05		5434.59	NM	NM	NM	NM	NM	NM
TW-23	29-Feb-12	5443.64		9.01		5434.63	NM	NM	NM	NM	NM	NM
TW-23	14-May-12	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	08-Aug-12	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	14-Nov-12	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	06-Feb-13	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	14-May-13	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	12-Aug-13	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	03-Dec-13	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	19-Feb-14	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	21-May-14	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	05-Aug-14	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	10-Dec-14	5443.64		9.36		5434.28	7.69	5.962	0.20	12.57	102.7	3.0
TW-24	17-Dec-08	5444.79		10.97		5433.82	6.21	5.942	4.88	15.60	-64.3	1.25
TW-24	26-Jan-09	5444.79	11.84	11.85	0.01	5432.95	NM	NM	NM	NM	NM	NM
TW-24	21-Aug-09	5444.79	11.10	11.22	0.12	5433.67	Not Sampled - NAPL Present					
TW-24	13-Nov-09	5444.79	11.07	11.15	0.08	5433.71	NM	NM	NM	NM	NM	NM
TW-24	17-Feb-10	5444.79		10.78		5434.01	6.62	7.86	0.74	13.77	436.8	3.00
TW-24	11-May-10	5444.79		10.63		5434.16	7.05	4.70	0.33	14.39	229	3.75

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-24	18-Aug-10	5444.79		11.09	Sheen	5433.70	NM	NM	NM	NM	NM	NM
TW-24	15-Nov-10	5444.79	11.17	11.30	0.13	5433.60	NM	NM	NM	NM	NM	NM
TW-24	23-Feb-11	5444.79	11.09	11.15	0.06	5433.69	NM	NM	NM	NM	NM	NM
TW-24	17-May-11	5444.79	11.09	11.15	0.06	5433.69	Not Sampled - NAPL Present					
TW-24	23-Aug-11	5444.79	11.34	11.47	0.13	5433.43	Not Sampled - NAPL Present					
TW-24	16-Nov-11	5444.79	11.26	11.37	0.11	5433.51	Not Sampled - NAPL Present					
TW-24	29-Feb-12	5444.79	11.08	11.10	0.02	5433.71	Not Sampled - NAPL Present					
TW-24	14-May-12	5444.79		11.07		5433.72	NM	NM	NM	NM	NM	NM
TW-24	08-Aug-12	5444.79	11.34	11.44	0.10	5433.43	NM	NM	NM	NM	NM	NM
TW-24	14-Nov-12	5444.79	11.37	11.47	0.10	5433.40	NM	NM	NM	NM	NM	NM
TW-24	06-Feb-13	5444.79		11.15		5433.64	NM	NM	NM	NM	NM	NM
TW-24	14-May-13	5444.79	11.23	11.25	0.02	5433.56	NM	NM	NM	NM	NM	NM
TW-24	12-Aug-13	5444.79	13.51	13.56	0.05	5431.27	NM	NM	NM	NM	NM	NM
TW-24	03-Dec-13	5444.79		16.16		5428.63	NM	NM	NM	NM	NM	NM
TW-24	19-Feb-14	5444.79		11.03		5433.76	NM	NM	NM	NM	NM	NM
TW-24	21-May-14	5444.79		11.10		5433.69	NM	NM	NM	NM	NM	NM
TW-24	05-Aug-14	5444.79	11.41	11.43	0.02	5433.38	NM	NM	NM	NM	NM	NM
TW-24	10-Dec-14	5444.79		11.22		5433.57	7.72	5.620	0.19	15.13	214.3	3.0
TW-25	17-Dec-08	5448.80	14.13	14.62	0.49	5434.59	Not Sampled - NAPL Present					
TW-25	26-Jan-09	5448.80	14.05	14.41	0.36	5434.69	NM	NM	NM	NM	NM	NM
TW-25	13-Aug-09	5448.80	14.14	14.63	0.49	5434.58	Not Sampled - NAPL present					
TW-25	12-Nov-09	5448.80	14.24	14.91	0.67	5434.44	NM	NM	NM	NM	NM	NM
TW-25	15-Feb-10	5448.80	14.03	14.41	0.38	5434.70	NM	NM	NM	NM	NM	NM
TW-25	07-May-10	5448.80	13.88	14.18	0.30	5434.87	NM	NM	NM	NM	NM	NM
TW-25	18-Aug-10	5448.80	14.00	14.39	0.39	5434.73	NM	NM	NM	NM	NM	NM
TW-25	15-Nov-10	5448.80	14.40	14.71	0.31	5434.35	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-25	23-Feb-11	5448.80	14.21	14.45	0.24	5434.55	NM	NM	NM	NM	NM	NM
TW-25	17-May-11	5448.80	14.09	14.29	0.20	5434.68	Not Sampled - NAPL Present					
TW-25	23-Aug-11	5448.80	14.35	14.85	0.50	5434.36	Not Sampled - NAPL Present					
TW-25	16-Nov-11	5448.80	14.30	15.12	0.82	5434.36	Not Sampled - NAPL Present					
TW-25	29-Feb-12	5448.80	14.25	14.71	0.46	5434.47	Not Sampled - NAPL Present					
TW-25	14-May-12	5448.80	14.16	14.45	0.29	5434.59	Not Sampled - NAPL Present					
TW-25	08-Aug-12	5448.80	14.35	15.15	0.80	5434.31	NM	NM	NM	NM	NM	NM
TW-25	14-Nov-12	5448.80	14.43	15.31	0.88	5434.22	NM	NM	NM	NM	NM	NM
TW-25	06-Feb-13	5448.80	14.36	14.87	0.51	5434.35	NM	NM	NM	NM	NM	NM
TW-25	14-May-13	5448.80	14.36	14.77	0.41	5434.37	NM	NM	NM	NM	NM	NM
TW-25	12-Aug-13	5448.80	14.58	15.57	0.99	5434.05	NM	NM	NM	NM	NM	NM
TW-25	21-Nov-13	5448.80	14.50	15.00	0.50	5434.21	NM	NM	NM	NM	NM	NM
TW-25	19-Feb-14	5448.80	14.37	14.51	0.14	5434.41	NM	NM	NM	NM	NM	NM
TW-25	21-May-14	5448.80	14.33	14.37	0.04	5434.46	NM	NM	NM	NM	NM	NM
TW-25	05-Aug-14	5448.80	14.52	15.04	0.52	5434.19	NM	NM	NM	NM	NM	NM
TW-25	10-Dec-14	5448.80	14.57	15.05	0.48	5434.15	NM	NM	NM	NM	NM	NM
TW-26	17-Dec-08	5450.34	13.49	14.47	0.98	5436.68	Not Sampled - NAPL Present					
TW-26	26-Jan-09	5450.34	15.80	16.76	0.96	5434.37	NM	NM	NM	NM	NM	NM
TW-26	13-Aug-09	5450.34	15.83	17.29	1.46	5434.26	Not Sampled - NAPL present					
TW-26	12-Nov-09	5450.34	15.91	17.47	1.56	5434.16	NM	NM	NM	NM	NM	NM
TW-26	15-Feb-10	5450.34	15.81	16.86	1.05	5434.35	NM	NM	NM	NM	NM	NM
TW-26	07-May-10	5450.34	15.68	16.22	0.54	5434.57	NM	NM	NM	NM	NM	NM
TW-26	18-Aug-10	5450.34	15.75	16.75	1.00	5434.42	NM	NM	NM	NM	NM	NM
TW-26	15-Nov-10	5450.34	15.85	17.06	1.21	5434.28	NM	NM	NM	NM	NM	NM
TW-26	23-Feb-11	5450.34	15.81	16.75	0.94	5434.37	NM	NM	NM	NM	NM	NM
TW-26	17-May-11	5450.34	15.74	16.50	0.76	5434.47	Not Sampled - NAPL Present					

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-26	24-Aug-11	5450.34	16.02	17.44	1.42	5434.07	Not Sampled - NAPL Present					
TW-26	16-Nov-11	5450.34	15.98	17.40	1.42	5434.11	Not Sampled - NAPL Present					
TW-26	29-Feb-12	5450.34	15.94	16.85	0.91	5434.24	Not Sampled - NAPL Present					
TW-26	14-May-12	5450.34	15.86	16.64	0.78	5434.35	Not Sampled - NAPL Present					
TW-26	08-Aug-12	5450.34	16.02	17.42	1.40	5434.08	NM	NM	NM	NM	NM	NM
TW-26	14-Nov-12	5450.34	16.12	17.62	1.50	5433.96	NM	NM	NM	NM	NM	NM
TW-26	06-Feb-13	5450.34	16.07	17.18	1.11	5434.08	NM	NM	NM	NM	NM	NM
TW-26	14-May-13	5450.34	16.01	16.93	0.92	5434.17	NM	NM	NM	NM	NM	NM
TW-26	12-Aug-13	5450.34	16.21	17.75	1.54	5433.86	NM	NM	NM	NM	NM	NM
TW-26	03-Dec-13	5450.34	16.19	17.56	1.37	5433.91	NM	NM	NM	NM	NM	NM
TW-26	19-Feb-14	5450.34	16.09	16.84	0.75	5434.12	NM	NM	NM	NM	NM	NM
TW-26	21-May-14	5450.34	16.02	16.52	0.50	5434.23	NM	NM	NM	NM	NM	NM
TW-26	05-Aug-14	5450.34	16.16	17.23	1.07	5433.99	NM	NM	NM	NM	NM	NM
TW-26	10-Dec-14	5450.34	16.25	17.40	1.15	5433.89	NM	NM	NM	NM	NM	NM
TW-28	17-Dec-08	5449.24	15.37	15.96	0.59	5433.77	Not Sampled - NAPL Present					
TW-28	26-Jan-09	5449.24	15.28	15.79	0.51	5433.87	NM	NM	NM	NM	NM	NM
TW-28	13-Aug-09	5449.24	15.27	16.31	1.04	5433.79	Not Sampled - NAPL present					
TW-28	12-Nov-09	5449.24	15.35	16.74	1.39	5433.65	NM	NM	NM	NM	NM	NM
TW-28	15-Feb-10	5449.24	15.22	16.10	0.88	5433.87	NM	NM	NM	NM	NM	NM
TW-28	07-May-10	5449.24	15.08	15.47	0.39	5434.09	NM	NM	NM	NM	NM	NM
TW-28	18-Aug-10	5449.24	15.12	16.09	0.97	5433.95	NM	NM	NM	NM	NM	NM
TW-28	15-Nov-10	5449.24	15.49	16.67	1.18	5433.55	NM	NM	NM	NM	NM	NM
TW-28	23-Feb-11	5449.24	15.24	16.39	1.15	5433.80	NM	NM	NM	NM	NM	NM
TW-28	17-May-11	5449.24	15.19	16.09	0.90	5433.89	Not Sampled - NAPL Present					
TW-28	24-Aug-11	5449.24	15.33	16.87	1.54	5433.64	Not Sampled - NAPL Present					
TW-28	16-Nov-11	5449.24	15.40	16.94	1.54	5433.57	Not Sampled - NAPL Present					

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-28	29-Feb-12	5449.24	15.33	16.46	1.13	5433.71	Not Sampled - NAPL Present					
TW-28	14-May-12	5449.24	15.26	16.19	0.93	5433.82	Not Sampled - NAPL Present					
TW-28	08-Aug-12	5449.24	15.39	16.81	1.42	5433.60	NM	NM	NM	NM	NM	NM
TW-28	14-Nov-12	5449.24	15.50	17.06	1.56	5433.47	NM	NM	NM	NM	NM	NM
TW-28	06-Feb-13	5449.24	15.45	16.74	1.29	5433.57	NM	NM	NM	NM	NM	NM
TW-28	14-May-13	5449.24	15.40	16.53	1.13	5433.64	NM	NM	NM	NM	NM	NM
TW-28	12-Aug-13	5449.24	15.56	17.16	1.60	5433.40	NM	NM	NM	NM	NM	NM
TW-28	03-Dec-13	5449.24	15.55	16.92	1.37	5433.45	NM	NM	NM	NM	NM	NM
TW-28	19-Feb-14	5449.24	15.45	16.38	0.93	5433.63	NM	NM	NM	NM	NM	NM
TW-28	21-May-14	5449.24	15.37	16.14	0.77	5433.74	NM	NM	NM	NM	NM	NM
TW-28	05-Aug-14	5449.24	15.50	16.76	1.26	5433.52	NM	NM	NM	NM	NM	NM
TW-28	10-Dec-14	5449.24	15.59	17.00	1.41	5433.41	NM	NM	NM	NM	NM	NM
TW-29	17-Dec-08	5441.87	9.19	9.20	0.01	5432.68	Not Sampled - NAPL Present					
TW-29	26-Jan-09	5441.87	9.12	9.14	0.02	5432.75	NM	NM	NM	NM	NM	NM
TW-29	13-Aug-09	5441.87	9.22	10.06	0.84	5432.50	Not Sampled - NAPL present					
TW-29	13-Nov-09	5441.87	9.25	9.91	0.66	5432.51	NM	NM	NM	NM	NM	NM
TW-29	17-Feb-10	5441.87		8.96		5432.91	6.00	8.583	0.60	13.79	357.9	3.60
TW-29	07-May-10	5441.87	8.91	8.96	0.05	5432.95	NM	NM	NM	NM	NM	NM
TW-29	18-Aug-10	5441.87	9.14	9.69	0.55	5432.63	NM	NM	NM	NM	NM	NM
TW-29	15-Nov-10	5441.87	9.43	10.23	0.80	5432.30	NM	NM	NM	NM	NM	NM
TW-29	23-Feb-11	5441.87	10.31	10.90	0.59	5431.46	NM	NM	NM	NM	NM	NM
TW-29	17-May-11	5441.87	9.35	9.83	0.48	5432.44	Not Sampled - NAPL Present					
TW-29	24-Aug-11	5441.87	9.43	10.38	0.95	5432.28	Not Sampled - NAPL Present					
TW-29	16-Nov-11	5441.87	9.46	10.16	0.70	5432.29	Not Sampled - NAPL Present					
TW-29	29-Feb-12	5441.87	9.37	9.78	0.41	5432.43	Not Sampled - NAPL Present					
TW-29	14-May-12	5441.87	9.23	9.42	0.19	5432.61	Not Sampled - NAPL Present					

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-29	08-Aug-12	5441.87	9.40	10.30	0.90	5432.31	NM	NM	NM	NM	NM	NM
TW-29	14-Nov-12	5441.87	9.51	10.50	0.99	5432.19	NM	NM	NM	NM	NM	NM
TW-29	06-Feb-13	5441.87	9.38	9.71	0.33	5432.43	NM	NM	NM	NM	NM	NM
TW-29	14-May-13	5441.87	9.44	9.90	0.46	5432.35	NM	NM	NM	NM	NM	NM
TW-29	12-Aug-13	5441.87	9.61	10.64	1.03	5432.08	NM	NM	NM	NM	NM	NM
TW-29	03-Dec-13	5441.87	9.41	9.64	0.23	5432.42	NM	NM	NM	NM	NM	NM
TW-29	19-Feb-14	5441.87		9.30		5432.57	NM	NM	NM	NM	NM	NM
TW-29	21-May-14	5441.87	9.33	9.53	0.20	5432.51	NM	NM	NM	NM	NM	NM
TW-29	05-Aug-14	5441.87	9.55	10.29	0.74	5432.19	NM	NM	NM	NM	NM	NM
TW-29	10-Dec-14	5441.87	9.42	9.61	0.19	5432.42	NM	NM	NM	NM	NM	NM
TW-30	18-Dec-08	5437.93		5.90		5432.03	6.46	6.328	6.25*	12.89	-66.2	1.25
TW-30	26-Jan-09	5437.93		5.69		5432.24	NM	NM	NM	NM	NM	NM
TW-30	21-Aug-09	5437.93		6.07		5431.86	6.61	7.238	5.52	18.52	304.0	5.50
TW-30	17-Feb-10	5437.93		5.65		5432.28	6.26	8.169	1.47	11.21	476.9	5.60
TW-30	11-May-10	5437.93		5.67		5432.26	6.77	5.188	0.76	12.56	238.8	3.75
TW-30	18-Aug-10	5437.93		5.99		5431.94	NM	NM	NM	NM	NM	NM
TW-30	16-Nov-10	5437.93		6.34		5431.59	6.96	6.832	0.61	15.28	-8.8	3.00
TW-30	17-Feb-11	5437.93		6.24		5431.69	NM	NM	NM	NM	NM	NM
TW-30	17-May-11	5437.93		6.22		5431.71	NM	NM	NM	NM	NM	NM
TW-30	24-Aug-11	5437.93		6.47		5431.46	NM	NM	NM	NM	NM	NM
TW-30	17-Nov-11	5437.93		6.25		5431.68	7.21	6.482	0.54	12.97	-23.1	1.00
TW-30	28-Feb-12	5437.93		6.18		5431.75	NM	NM	NM	NM	NM	NM
TW-30	14-May-12	5437.93		5.96		5431.97	NM	NM	NM	NM	NM	NM
TW-30	08-Aug-12	5437.93		6.40		5431.53	NM	NM	NM	NM	NM	NM
TW-30	09-Nov-12	5437.93		6.48		5431.45	7.70	5.352	0.48	11.64	-50.5	5.5
TW-30	06-Feb-13	5437.93		6.23		5431.70	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-30	14-May-13	5437.93		6.35		5431.58	NM	NM	NM	NM	NM	NM
TW-30	12-Aug-13	5437.93		6.64		5431.29	NM	NM	NM	NM	NM	NM
TW-30	03-Dec-13	5437.93		5.96		5431.97	8.03	2.996	0.20	12.71	17.2	NM
TW-30	19-Feb-14	5437.93		5.96		5431.97	NM	NM	NM	NM	NM	NM
TW-30	21-May-14	5437.93		6.18		5431.75	NM	NM	NM	NM	NM	NM
TW-30	05-Aug-14	5437.93		6.30		5431.63	NM	NM	NM	NM	NM	NM
TW-30	10-Dec-14	5437.93		6.03		5431.90	7.66	5.462	0.13	12.95	129.0	3.0
TW-31	16-Dec-08	5438.54		7.03		5431.51	6.37	7.298	2.97	14.00	12.8	1.25
TW-31	26-Jan-09	5438.54		6.94		5431.60	NM	NM	NM	NM	NM	NM
TW-31	21-Aug-09	5438.54		7.18		5431.36	6.84	10.35	6.90	21.75	319.9	3.00
TW-31	17-Feb-10	5438.54		6.82		5431.72	6.63	9.906	3.95	9.75	358.8	3.00
TW-31	11-May-10	5438.54		6.78		5431.76	6.96	7.523	1.31	13.25	228.9	4.00
TW-31	18-Aug-10	5438.54		6.98		5431.56	NM	NM	NM	NM	NM	NM
TW-31	16-Nov-10	5438.54		7.24		5431.30	6.98	5.526	0.99	15.87	-10.0	3.00
TW-31	17-Feb-11	5438.54		7.16		5431.38	NM	NM	NM	NM	NM	NM
TW-31	17-May-11	5438.54		7.07		5431.47	NM	NM	NM	NM	NM	NM
TW-31	24-Aug-11	5438.54		7.30		5431.24	NM	NM	NM	NM	NM	NM
TW-31	17-Nov-11	5438.54		7.18		5431.36	7.24	5.432	1.94	14.67	-24.7	1.00
TW-31	28-Feb-12	5438.54		7.11		5431.43	NM	NM	NM	NM	NM	NM
TW-31	14-May-12	5438.54		6.76		5431.78	NM	NM	NM	NM	NM	NM
TW-31	08-Aug-12	5438.54		7.18		5431.36	NM	NM	NM	NM	NM	NM
TW-31	09-Nov-12	5438.54		7.36		5431.18	7.64	4.072	0.23	14.46	-47.7	3.0
TW-31	06-Feb-13	5438.54		7.17		5431.37	NM	NM	NM	NM	NM	NM
TW-31	14-May-13	5438.54		7.26		5431.28	NM	NM	NM	NM	NM	NM
TW-31	12-Aug-13	5438.54		7.50		5431.04	NM	NM	NM	NM	NM	NM
TW-31	03-Dec-13	5438.54		7.11		5431.43	8.02	3.110	0.24	13.53	113.7	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-31	19-Feb-14	5438.54		7.04		5431.50	NM	NM	NM	NM	NM	NM
TW-31	21-May-14	5438.54		7.19		5431.35	NM	NM	NM	NM	NM	NM
TW-31	05-Aug-14	5438.54		7.43		5431.11	NM	NM	NM	NM	NM	NM
TW-31	10-Dec-14	5438.54		7.10		5431.44	7.72	5.550	0.14	12.99	87.1	3.0
TW-32	17-Dec-08	5441.61	7.22	8.79	1.57	5434.12	Not Sampled - NAPL Present					
TW-32	26-Jan-09	5441.61	9.02	10.31	1.29	5432.37	NM	NM	NM	NM	NM	NM
TW-32	13-Aug-09	5441.61	9.12	10.86	1.74	5432.19	Not Sampled - NAPL present					
TW-32	12-Nov-09	5441.61	9.26	10.88	1.62	5432.07	NM	NM	NM	NM	NM	NM
TW-32	16-Feb-10	5441.61	8.97	9.98	1.01	5432.47	NM	NM	NM	NM	NM	NM
TW-32	07-May-10	5441.61	8.92	9.34	0.42	5432.62	NM	NM	NM	NM	NM	NM
TW-32	18-Aug-10	5441.61	9.00	10.18	1.18	5432.41	NM	NM	NM	NM	NM	NM
TW-32	15-Nov-10	5441.61	9.30	10.87	1.57	5432.04	NM	NM	NM	NM	NM	NM
TW-32	23-Feb-11	5441.61	9.23	10.79	1.56	5432.11	NM	NM	NM	NM	NM	NM
TW-32	17-May-11	5441.61	9.26	10.72	1.46	5432.10	Not Sampled - NAPL Present					
TW-32	24-Aug-11	5441.61	9.40	10.92	1.52	5431.95	Not Sampled - NAPL Present					
TW-32	16-Nov-11	5441.61	9.38	11.01	1.63	5431.95	Not Sampled - NAPL Present					
TW-32	29-Feb-12	5441.61	9.27	10.72	1.45	5432.09	Not Sampled - NAPL Present					
TW-32	14-May-12	5441.61	9.13	10.47	1.34	5432.25	Not Sampled - NAPL Present					
TW-32	10-Aug-12	5441.61	9.34	10.79	1.45	5432.02	NM	NM	NM	NM	NM	NM
TW-32	06-Feb-13	5441.61	9.36	10.72	1.36	5432.01	NM	NM	NM	NM	NM	NM
TW-32	14-May-13	5441.61	9.38	10.65	1.27	5432.01	NM	NM	NM	NM	NM	NM
TW-32	12-Aug-13	5441.61	9.59	10.56	0.97	5431.85	NM	NM	NM	NM	NM	NM
TW-32	21-Nov-13	5441.61	9.45	10.60	1.15	5431.96	NM	NM	NM	NM	NM	NM
TW-32	19-Feb-14	5441.61	9.30	10.32	1.02	5432.13	NM	NM	NM	NM	NM	NM
TW-32	21-May-14	5441.61	9.30	10.20	0.90	5432.15	NM	NM	NM	NM	NM	NM
TW-32	05-Aug-14	5441.61	9.54	10.52	0.98	5431.90	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-32	10-Dec-14	5441.61	9.48	10.70	1.22	5431.92	NM	NM	NM	NM	NM	NM
TW-33	17-Dec-08	5445.85	12.96	13.02	0.06	5432.88	Not Sampled - NAPL Present					
TW-33	26-Jan-09	5445.85	12.92	13.02	0.10	5432.91	NM	NM	NM	NM	NM	NM
TW-33	13-Aug-09	5445.85	12.96	13.10	0.14	5432.87	Not Sampled - NAPL present					
TW-33	12-Nov-09	5445.85	13.10	13.40	0.30	5432.70	NM	NM	NM	NM	NM	NM
TW-33	16-Feb-10	5445.85	12.89	12.93	0.04	5432.95	NM	NM	NM	NM	NM	NM
TW-33	07-May-10	5445.85	12.68	12.70	0.02	5433.17	NM	NM	NM	NM	NM	NM
TW-33	18-Aug-10	5445.85	12.81	12.99	0.18	5433.01	NM	NM	NM	NM	NM	NM
TW-33	15-Nov-10	5445.85	12.97	13.15	0.18	5432.85	NM	NM	NM	NM	NM	NM
TW-33	17-Feb-11	5445.85	12.98	13.05	0.07	5432.86	NM	NM	NM	NM	NM	NM
TW-33	17-May-11	5445.85	12.80	12.82	0.02	5433.05	Not Sampled - NAPL Present					
TW-33	24-Aug-11	5445.85	13.20	13.33	0.13	5432.63	Not Sampled - NAPL Present					
TW-33	16-Nov-11	5445.85	13.13	13.42	0.29	5432.67	Not Sampled - NAPL Present					
TW-33	29-Feb-12	5445.85	13.10	13.15	0.05	5432.74	Not Sampled - NAPL Present					
TW-33	14-May-12	5445.85	12.93	12.98	0.05	5432.91	Not Sampled - NAPL Present					
TW-33	08-Aug-12	5445.85	13.10	13.40	0.30	5432.70	NM	NM	NM	NM	NM	NM
TW-33	09-Nov-12	5445.85	13.22	13.50	0.28	5432.58	NM	NM	NM	NM	NM	NM
TW-33	06-Feb-13	5445.85	13.14	13.39	0.25	5432.67	NM	NM	NM	NM	NM	NM
TW-33	14-May-13	5445.85	13.00	13.52	0.52	5432.76	NM	NM	NM	NM	NM	NM
TW-33	12-Aug-13	5445.85	13.19	14.08	0.89	5432.51	NM	NM	NM	NM	NM	NM
TW-33	21-Nov-13	5445.85	13.11	14.08	0.97	5432.57	NM	NM	NM	NM	NM	NM
TW-33	19-Feb-14	5445.85	13.00	13.57	0.57	5432.75	NM	NM	NM	NM	NM	NM
TW-33	21-May-14	5445.85	12.91	13.31	0.40	5432.87	NM	NM	NM	NM	NM	NM
TW-33	05-Aug-14	5445.85	13.05	14.09	1.04	5432.62	NM	NM	NM	NM	NM	NM
TW-33	10-Dec-14	5445.85	13.12	14.10	0.98	5432.56	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-34	18-Dec-08	5455.80		19.82		5435.98	7.48	6.744	3.97	14.29	-183.8	1.25
TW-34	26-Jan-09	5455.80		19.74		5436.06	NM	NM	NM	NM	NM	NM
TW-34	19-Aug-09	5455.80		20.23		5435.57	7.06	10.07	6.19	15.43	303.7	3.00
TW-34	18-Feb-10	5455.80		19.79		5436.01	7.06	9.266	2.40	12.35	-55.0	3.00
TW-34	12-May-10	5455.80		19.6		5436.20	7.03	5.825	2.18	13.57	133.5	3.75
TW-34	18-Aug-10	5455.80		20.10		5435.70	NM	NM	NM	NM	NM	NM
TW-34	15-Nov-10	5455.80		19.93		5435.87	NM	NM	NM	NM	NM	NM
TW-34	23-Feb-11	5455.80		19.83		5435.97	NM	NM	NM	NM	NM	NM
TW-34	17-May-11	5455.80		19.73		5436.07	NM	NM	NM	NM	NM	NM
TW-34	24-Aug-11	5455.80		20.43		5435.37	NM	NM	NM	NM	NM	NM
TW-34	22-Nov-11	5455.80		20.14		5435.66	7.25	6.078	2.31	14.58	-25.4	1.00
TW-34	29-Feb-12	5455.80		19.91		5435.89	NM	NM	NM	NM	NM	NM
TW-34	22-May-12	5455.80		19.99		5435.81	NM	NM	NM	NM	NM	NM
TW-34	10-Aug-12	5455.80		20.55		5435.25	NM	NM	NM	NM	NM	NM
TW-34	09-Nov-12	5455.80		20.38		5435.42	NM	NM	NM	NM	NM	NM
TW-34	06-Feb-13	5455.80		20.18		5435.62	NM	NM	NM	NM	NM	NM
TW-34	14-May-13	5455.80		20.09		5435.71	NM	NM	NM	NM	NM	NM
TW-34	12-Aug-13	5455.80		20.75		5435.05	NM	NM	NM	NM	NM	NM
TW-34	21-Nov-13	5455.80	20.4	20.41	0.01	5435.40	NM	NM	NM	NM	NM	NM
TW-34	19-Feb-14	5455.80		20.17		5435.63	NM	NM	NM	NM	NM	NM
TW-34	28-May-14	5455.80		20.13		5435.67	NM	NM	NM	NM	NM	NM
TW-34	05-Aug-14	5455.80		20.72		5435.08	NM	NM	NM	NM	NM	NM
TW-34	05-Dec-14	5455.80		20.47		5435.33	NM	NM	NM	NM	NM	NM
TW-35	18-Dec-08	5449.14		15.21		5433.93	7.04	7.929	4.39	14.98	-189.4	1.25
TW-35	26-Jan-09	5449.14		15.12		5434.02	NM	NM	NM	NM	NM	NM
TW-35	24-Aug-09	5449.14		15.29		5433.85	7.02	11.80	6.40	16.41	295.1	3.30

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-35	18-Feb-10	5449.14		15.15		5433.99	7.20	11.52	2.91	12.99	-283.0	3.60
TW-35	12-May-10	5449.14		14.91		5434.23	7.17	6.714	1.91	12.77	197.4	3.75
TW-35	18-Aug-10	5449.14		15.08		5434.06	NM	NM	NM	NM	NM	NM
TW-35	17-Nov-10	5449.14		15.23		5433.91	7.13	7.175	0.72	15.97	-18.3	3.00
TW-35	23-Feb-11	5449.14		15.17		5433.97	NM	NM	NM	NM	NM	NM
TW-35	17-May-11	5449.14		15.03		5434.11	NM	NM	NM	NM	NM	NM
TW-35	24-Aug-11	5449.14		15.35		5433.79	NM	NM	NM	NM	NM	NM
TW-35	22-Nov-11	5449.14		15.35		5433.79	7.38	6.901	1.21	15.24	-32.9	1.00
TW-35	29-Feb-12	5449.14		15.28		5433.86	NM	NM	NM	NM	NM	NM
TW-35	22-May-12	5449.14		15.51		5433.63	NM	NM	NM	NM	NM	NM
TW-35	10-Aug-12	5449.14	15.35	15.98	0.63	5433.68	NM	NM	NM	NM	NM	NM
TW-35	09-Nov-12	5449.14	15.45	16.01	0.56	5433.59	NM	NM	NM	NM	NM	NM
TW-35	06-Feb-13	5449.14	15.34	16.02	0.68	5433.68	NM	NM	NM	NM	NM	NM
TW-35	14-May-13	5449.14	15.20	16.10	0.90	5433.78	NM	NM	NM	NM	NM	NM
TW-35	12-Aug-13	5449.14	15.39	16.89	1.50	5433.49	NM	NM	NM	NM	NM	NM
TW-35	21-Nov-13	5449.14	15.37	16.63	1.26	5433.55	NM	NM	NM	NM	NM	NM
TW-35	19-Feb-14	5449.14	15.25	16.09	0.84	5433.74	NM	NM	NM	NM	NM	NM
TW-35	28-May-14	5449.14	15.17	15.90	0.73	5433.84	NM	NM	NM	NM	NM	NM
TW-35	05-Aug-14	5449.14	15.33	16.52	1.19	5433.60	NM	NM	NM	NM	NM	NM
TW-35	05-Dec-14	5449.14	15.42	16.53	1.11	5433.53	NM	NM	NM	NM	NM	NM
TW-36	18-Dec-08	5441.91		13.03		5428.88	6.94	7.874	3.6	15.28	-270.7	1.25
TW-36	26-Jan-09	5441.91	12.94	12.97	0.03	5428.96	NM	NM	NM	NM	NM	NM
TW-36	13-Aug-09	5441.91	13.17	13.35	0.18	5428.71	Not Sampled - NAPL present					
TW-36	13-Nov-09	5441.91	13.25	13.63	0.38	5428.59	NM	NM	NM	NM	NM	NM
TW-36	16-Feb-10	5441.91	12.96	12.98	0.02	5428.95	NM	NM	NM	NM	NM	NM
TW-36	12-May-10	5441.91		12.70		5429.21	7.08	6.193	1.42	12.75	388.4	3.75

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-36	18-Aug-10	5441.91	13.10	13.18	0.08	5428.80	NM	NM	NM	NM	NM	NM
TW-36	15-Nov-10	5441.91	13.20	13.35	0.15	5428.68	NM	NM	NM	NM	NM	NM
TW-36	23-Feb-11	5441.91		13.03		5428.88	NM	NM	NM	NM	NM	NM
TW-36	17-May-11	5441.91	12.97	12.98	0.01	5428.94	Not Sampled - NAPL Present					
TW-36	24-Aug-11	5441.91	13.43	13.68	0.25	5428.44	Not Sampled - NAPL Present					
TW-36	15-Nov-11	5441.91	13.36	13.55	0.19	5428.52	Not Sampled - NAPL Present					
TW-36	29-Feb-12	5441.91	13.14	13.22	0.08	5428.76	Not Sampled - NAPL Present					
TW-36	22-May-12	5441.91	13.13	13.30	0.17	5428.75	Not Sampled - NAPL Present					
TW-36	10-Aug-12	5441.91	13.32	13.72	0.40	5428.52	NM	NM	NM	NM	NM	NM
TW-36	09-Nov-12	5441.91	13.34	13.74	0.40	5428.50	NM	NM	NM	NM	NM	NM
TW-36	06-Feb-13	5441.91	13.23	13.40	0.17	5428.65	NM	NM	NM	NM	NM	NM
TW-36	14-May-13	5441.91	13.12	13.25	0.13	5428.77	NM	NM	NM	NM	NM	NM
TW-36	12-Aug-13	5441.91	13.46	13.93	0.47	5428.37	NM	NM	NM	NM	NM	NM
TW-36	03-Dec-13	5441.91	13.16	13.19	0.03	5428.74	NM	NM	NM	NM	NM	NM
TW-36	19-Feb-14	5441.91		13.04		5428.87	NM	NM	NM	NM	NM	NM
TW-36	29-May-14	5441.91		12.95		5428.96	7.44	4.425	0.09	17.40	70.6	3.0
TW-36	05-Aug-14	5441.91	13.24	13.41	0.17	5428.64	NM	NM	NM	NM	NM	NM
TW-36	10-Dec-14	5441.91	13.27	13.44	0.17	5428.61	NM	NM	NM	NM	NM	NM
TW-37	17-Dec-08	5439.59		10.57		5429.02	6.51	4.698	3.5	14.02	-221.3	1.25
TW-37	26-Jan-09	5439.59		10.47		5429.12	NM	NM	NM	NM	NM	NM
TW-37	21-Aug-09	5439.59		10.71		5428.88	7.22	6.162	4.35	18.77	296.1	3.00
TW-37	16-Feb-10	5439.59		10.44		5429.15	6.77	6.700	1.11	12.18	430.5	3.00
TW-37	11-May-10	5439.59		10.16		5429.43	6.98	4.092	1.27	12.84	224.6	3.75
TW-37	19-Aug-10	5439.59		10.53		5429.06	7.05	4.268	0.41	18.90	324.2	1.50
TW-37	16-Nov-10	5439.59		10.68		5428.91	7.05	4.503	0.61	16.79	-13.6	3.00
TW-37	17-Feb-11	5439.59		10.58		5429.01	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-37	18-May-11	5439.59		10.50		5429.09	7.05	4.162	0.77	13.42	-13.9	0.50
TW-37	24-Aug-11	5439.59		10.86		5428.73	NM	NM	NM	NM	NM	NM
TW-37	22-Nov-11	5439.59		10.83		5428.76	7.26	4.513	1.63	15.31	-25.8	1.00
TW-37	28-Feb-12	5439.59		10.67		5428.92	NM	NM	NM	NM	NM	NM
TW-37	17-May-12	5439.59		10.59		5429.00	7.26	3.124	0.95	16.40	-25.8	NM
TW-37	10-Aug-12	5439.59		10.80		5428.79	NM	NM	NM	NM	NM	NM
TW-37	09-Nov-12	5439.59		10.90		5428.69	7.60	3.374	0.13	16.17	-45.4	3.0
TW-37	06-Feb-13	5439.59		10.80		5428.79	NM	NM	NM	NM	NM	NM
TW-37	09-May-13	5439.59		10.66		5428.93	7.30	2.489	0.15	13.84	-28.3	3.0
TW-37	12-Aug-13	5439.59		11.00		5428.59	NM	NM	NM	NM	NM	NM
TW-37	03-Dec-13	5439.59		10.71		5428.88	8.23	2.447	0.21	14.61	-79.4	NM
TW-37	19-Feb-14	5439.59		10.58		5429.01	NM	NM	NM	NM	NM	NM
TW-37	29-May-14	5439.59		10.41		5429.18	7.50	3.269	0.03	15.83	27.7	3.0
TW-37	05-Aug-14	5439.59		10.73		5428.86	NM	NM	NM	NM	NM	NM
TW-37	10-Dec-14	5439.59		10.81		5428.78	7.74	4.255	0.07	14.47	101.6	3.0
TW-38	17-Dec-08	5442.11		9.55		5432.56	6.95	5.466	4.06	12.82	-179.3	1.25
TW-38	26-Jan-09	5442.11		11.36		5430.75	NM	NM	NM	NM	NM	NM
TW-38	21-Aug-09	5442.11	11.57	11.58	0.01	5430.54	Not Sampled - NAPL Present					
TW-38	12-Nov-09	5442.11	11.64	11.70	0.06	5430.46	NM	NM	NM	NM	NM	NM
TW-38	18-Feb-10	5442.11		11.28		5430.83	6.73	7.314	0.57	12.54	549.0	2.10
TW-38	12-May-10	5442.11		11.09		5431.02	7.06	4.741	2.37	12.83	205.3	3.75
TW-38	19-Aug-10	5442.11		11.30		5430.81	6.99	4.573	0.48	18.42	353.8	2.50
TW-38	16-Nov-10	5442.11		11.54		5430.57	7.10	4.657	0.79	16.96	-16.7	3.00
TW-38	17-Feb-11	5442.11		11.49		5430.62	NM	NM	NM	NM	NM	NM
TW-38	18-May-11	5442.11		11.42		5430.69	7.06	3.756	0.97	13.91	-14.3	0.50
TW-38	24-Aug-11	5442.11		11.72		5430.39	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-38	16-Nov-11	5442.11	11.68	11.83	0.15	5430.40	NM	NM	NM	NM	NM	NM
TW-38	29-Feb-12	5442.11	11.58	11.60	0.02	5430.53	NM	NM	NM	NM	NM	NM
TW-38	14-May-12	5442.11		11.56		5430.55	NM	NM	NM	NM	NM	NM
TW-38	10-Aug-12	5442.11	11.64	11.78	0.14	5430.45	NM	NM	NM	NM	NM	NM
TW-38	09-Nov-12	5442.11	11.77	11.97	0.20	5430.31	NM	NM	NM	NM	NM	NM
TW-38	06-Feb-13	5442.11	11.69	11.75	0.06	5430.41	NM	NM	NM	NM	NM	NM
TW-38	14-May-13	5442.11	11.61	11.65	0.04	5430.49	NM	NM	NM	NM	NM	NM
TW-38	12-Aug-13	5442.11	11.81	12.05	0.24	5430.26	NM	NM	NM	NM	NM	NM
TW-38	21-Nov-13	5442.11	11.68	11.73	0.05	5430.42	NM	NM	NM	NM	NM	NM
TW-38	19-Feb-14	5442.11	11.54	11.56	0.02	5430.57	NM	NM	NM	NM	NM	NM
TW-38	29-May-14	5442.11		11.44		5430.67	7.61	3.769	0.09	15.62	68.0	3.0
TW-38	05-Aug-14	5442.11	11.68	11.82	0.14	5430.41	NM	NM	NM	NM	NM	NM
TW-38	10-Dec-14	5442.11	11.75	11.82	0.07	5430.35	NM	NM	NM	NM	NM	NM
TW-39	18-Dec-08	5438.43	7.7	7.71	0.01	5430.73	Not Sampled - Sheen of NAPL Present					
TW-39	26-Jan-09	5438.43		7.44		5430.99	NM	NM	NM	NM	NM	NM
TW-39	21-Aug-09	5438.43		7.96		5430.47	6.93	8.946	4.48	23.34	328.1	3.00
TW-39	17-Feb-10	5438.43		7.11		5431.32	6.64	6.092	1.22	8.11	244.4	2.10
TW-39	12-May-10	5438.43		6.98		5431.45	6.93	6.104	1.91	12.70	214.3	3.75
TW-39	19-Aug-10	5438.43		7.42		5431.01	7.19	3.956	0.30	22.67	359.2	2.50
TW-39	16-Nov-10	5438.43		7.95		5430.48	7.17	4.224	0.85	15.29	-20.8	3.00
TW-39	17-Feb-11	5438.43		9.01		5429.42	NM	NM	NM	NM	NM	NM
TW-39	19-May-11	5438.43		7.73		5430.70	7.13	4.654	1.00	11.84	-18.2	0.50
TW-39	24-Aug-11	5438.43		7.97		5430.46	NM	NM	NM	NM	NM	NM
TW-39	17-Nov-11	5438.43		7.98		5430.45	7.18	4.189	0.63	14.26	-21.5	1.00
TW-39	28-Feb-12	5438.43		7.87		5430.56	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-39	14-May-12	5438.43		7.30		5431.13	7.17	3.934	0.56	17.39	-20.7	NM
TW-39	10-Aug-12	5438.43		7.91		5430.52	NM	NM	NM	NM	NM	NM
TW-39	09-Nov-12	5438.43		8.16		5430.27	7.52	3.510	0.07	15.11	-40.6	3.0
TW-39	06-Feb-13	5438.43		7.93		5430.50	NM	NM	NM	NM	NM	NM
TW-39	14-May-13	5438.43		8.24		5430.19	NM	NM	NM	NM	NM	NM
TW-39	12-Aug-13	5438.43		8.15		5430.28	NM	NM	NM	NM	NM	NM
TW-39	03-Dec-13	5438.43		7.91		5430.52	8.07	2.843	0.09	13.58	116.5	NM
TW-39	19-Feb-14	5438.43		7.76		5430.67	NM	NM	NM	NM	NM	NM
TW-39	29-May-14	5438.43		7.75		5430.68	7.59	3.847	0.05	15.51	44.5	3.0
TW-39	05-Aug-14	5438.43		8.19		5430.24	NM	NM	NM	NM	NM	NM
TW-39	11-Dec-14	5438.43		7.97		5430.46	7.84	4.191	0.02	11.20	-86.0	NM
TW-40	18-Dec-08	5437.50		5.30		5432.20	Not Sampled - Sheen of NAPL Present					
TW-40	26-Jan-09	5437.50		7.27		5430.23	NM	NM	NM	NM	NM	NM
TW-40	13-Aug-09	5437.50	7.90	8.53	0.63	5429.49	Not Sampled - NAPL present					
TW-40	13-Nov-09	5437.50	7.93	8.49	0.56	5429.47	NM	NM	NM	NM	NM	NM
TW-40	16-Feb-10	5437.50	6.84	7.76	0.92	5430.50	NM	NM	NM	NM	NM	NM
TW-40	07-May-10	5437.50	6.78	7.90	1.12	5430.53	NM	NM	NM	NM	NM	NM
TW-40	18-Aug-10	5437.50	7.50	7.88	0.38	5429.93	NM	NM	NM	NM	NM	NM
TW-40	15-Nov-10	5437.50	7.97	8.51	0.54	5429.44	NM	NM	NM	NM	NM	NM
TW-40	17-Feb-11	5437.50	7.94	8.38	0.44	5429.48	NM	NM	NM	NM	NM	NM
TW-40	17-May-11	5437.50	7.72	8.19	0.47	5429.70	Not Sampled - NAPL Present					
TW-40	24-Aug-11	5437.50	8.07	8.69	0.62	5429.32	Not Sampled - NAPL Present					
TW-40	16-Nov-11	5437.50	8.01	8.51	0.50	5429.40	Not Sampled - NAPL Present					
TW-40	29-Feb-12	5437.50	7.86	8.33	0.47	5429.56	Not Sampled - NAPL Present					
TW-40	14-May-12	5437.50	7.27	7.55	0.28	5430.18	Not Sampled - NAPL Present					
TW-40	10-Aug-12	5437.50	7.82	7.89	0.07	5429.67	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-40	09-Nov-12	5437.50	8.24	8.38	0.14	5429.24	NM	NM	NM	NM	NM	NM
TW-40	06-Feb-13	5437.50	7.97	8.00	0.03	5429.52	NM	NM	NM	NM	NM	NM
TW-40	14-May-13	5437.50	7.83	7.85	0.02	5429.67	NM	NM	NM	NM	NM	NM
TW-40	12-Aug-13	5437.50	8.27	8.52	0.25	5429.19	NM	NM	NM	NM	NM	NM
TW-40	21-Nov-13	5437.50	7.90	7.92	0.02	5429.60	NM	NM	NM	NM	NM	NM
TW-40	19-Feb-14	5437.50	7.66	7.69	0.03	5429.83	NM	NM	NM	NM	NM	NM
TW-40	28-May-14	5437.50	7.59	7.61	0.02	5429.91	NM	NM	NM	NM	NM	NM
TW-40	05-Aug-14	5437.50	8.22	8.43	0.21	5429.24	NM	NM	NM	NM	NM	NM
TW-40	10-Dec-14	5437.50	7.89	7.97	0.08	5429.60	NM	NM	NM	NM	NM	NM
TW-41	18-Dec-08	5434.77		5.85		5428.92	6.16	5.669	3.92	10.95	-339.4	1.25
TW-41	26-Jan-09	5434.77		5.59		5429.18	NM	NM	NM	NM	NM	NM
TW-41	24-Aug-09	5434.77		6.27		5428.50	6.72	9.811	8.50	20.12	126.3	2.50
TW-41	16-Feb-10	5434.77		5.34		5429.43	6.06	8.192	0.46	8.01	461.4	3.00
TW-41	12-May-10	5434.77		5.17		5429.60	7.01	5.881	1.30	12.95	229.2	3.75
TW-41	20-Aug-10	5434.77		5.70		5429.07	7.07	5.434	0.52	20.38	197.0	2.50
TW-41	16-Nov-10	5434.77		6.12		5428.65	6.93	5.792	0.69	14.43	-6.7	3.00
TW-41	17-Feb-11	5434.77		6.06		5428.71	NM	NM	NM	NM	NM	NM
TW-41	18-May-11	5434.77		5.92		5428.85	7.05	5.675	0.78	13.17	-13.9	0.50
TW-41	24-Aug-11	5434.77		6.36		5428.41	NM	NM	NM	NM	NM	NM
TW-41	22-Nov-11	5434.77		6.27		5428.50	7.19	3.813	0.59	12.23	-21.6	1.00
TW-41	28-Feb-12	5434.77		6.06		5428.71	NM	NM	NM	NM	NM	NM
TW-41	21-May-12	5434.77		5.85		5428.92	7.08	4.146	0.26	16.69	-15.6	NM
TW-41	10-Aug-12	5434.77		5.67		5429.10	NM	NM	NM	NM	NM	NM
TW-41	09-Nov-12	5434.77		6.34		5428.43	7.40	3.985	0.15	14.72	-34.1	3.0
TW-41	06-Feb-13	5434.77		6.20		5428.57	NM	NM	NM	NM	NM	NM
TW-41	10-May-13	5434.77		5.85		5428.92	7.10	3.648	0.72	13.78	-17.0	3.0

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-41	12-Aug-13	5434.77		6.11		5428.66	NM	NM	NM	NM	NM	NM
TW-41	03-Dec-13	5434.77		6.18		5428.59	7.90	4.928	0.13	12.57	38.1	NM
TW-41	19-Feb-14	5434.77		5.91		5428.86	NM	NM	NM	NM	NM	NM
TW-41	29-May-14	5434.77		5.65		5429.12	7.60	5.438	0.35	15.45	65.7	NM
TW-41	05-Aug-14	5434.77		6.11		5428.66	NM	NM	NM	NM	NM	NM
TW-41	11-Dec-14	5434.77		6.23		5428.54	7.76	4.746	0.05	10.91	68.2	3.0
TW-42	16-Dec-08	5433.76		6.09		5427.67	6.48	6.036	1.07	12.04	23.5	1.25
TW-42	26-Jan-09	5433.76		5.97		5427.79	NM	NM	NM	NM	NM	NM
TW-42	24-Aug-09	5433.76		6.37		5427.39	7.23	10.81	6.43	19.48	219.0	2.50
TW-42	16-Feb-10	5433.76		5.84		5427.92	6.43	7.885	2.50	7.78	456.9	3.00
TW-42	12-May-10	5433.76		5.55		5428.21	7.27	5.816	2.60	12.54	233.5	3.75
TW-42	20-Aug-10	5433.76		6.05		5427.71	7.34	6.146	1.34	19.81	266.2	2.50
TW-42	16-Nov-10	5433.76		6.21		5427.55	7.26	6.589	1.84	14.17	-25.8	3.00
TW-42	17-Feb-11	5433.76		6.07		5427.69	NM	NM	NM	NM	NM	NM
TW-42	17-May-11	5433.76		6.02		5427.74	NM	NM	NM	NM	NM	NM
TW-42	24-Aug-11	5433.76		6.47		5427.29	NM	NM	NM	NM	NM	NM
TW-42	22-Nov-11	5433.76		6.43		5427.33	7.31	4.216	0.88	12.53	-28.4	1.00
TW-42	28-Feb-12	5433.76		6.14		5427.62	NM	NM	NM	NM	NM	NM
TW-42	21-May-12	5433.76		7.01		5426.75	7.18	4.835	0.19	14.92	-21.0	NM
TW-42	10-Aug-12	5433.76		5.79		5427.97	NM	NM	NM	NM	NM	NM
TW-42	09-Nov-12	5433.76		6.26		5427.50	7.55	3.735	1.10	8.63	-41.9	3.0
TW-42	06-Feb-13	5433.76		6.25		5427.51	NM	NM	NM	NM	NM	NM
TW-42	10-May-13	5433.76		5.76		5428.00	6.67	4.015	2.23	15.23	40.3	3.0
TW-42	12-Aug-13	5433.76		5.93		5427.83	NM	NM	NM	NM	NM	NM
TW-42	04-Dec-13	5433.76		6.05		5427.71	8.06	2.229	0.34	10.29	59.1	NM
TW-42	19-Feb-14	5433.76		6.00		5427.76	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-42	29-May-14	5433.76		4.59		5429.17	NM	NM	NM	14.97	NM	NM
TW-42	05-Aug-14	5433.76		5.39		5428.37	NM	NM	NM	NM	NM	NM
TW-42	11-Dec-14	5433.76		6.30		5427.46	7.84	5.338	0.03	11.46	43.8	3.0
TW-43	16-Dec-08	5440.42		12.19		5428.23	6.35	6.716	1.01	14.39	7.0	1.25
TW-43	26-Jan-09	5440.42		12.10		5428.32	NM	NM	NM	NM	NM	NM
TW-43	24-Aug-09	5440.42		12.44		5427.98	6.94	8.834	6.92	17.73	204.1	3.00
TW-43	16-Feb-10	5440.42		12.11		5428.31	6.79	7.655	3.56	12.46	431.3	3.00
TW-43	12-May-10	5440.42		11.82		5428.60	7.01	4.736	1.60	12.89	225.4	3.75
TW-43	20-Aug-10	5440.42		12.29		5428.13	6.98	4.873	1.00	17.72	299.0	2.50
TW-43	16-Nov-10	5440.42		12.34		5428.08	6.94	5.273	0.84	16.58	-7.3	3.00
TW-43	17-Feb-11	5440.42		12.19		5428.23	NM	NM	NM	NM	NM	NM
TW-43	18-May-11	5440.42		12.15		5428.27	6.93	5.144	0.44	13.07	-7.1	0.50
TW-43	24-Aug-11	5440.42		12.58		5427.84	NM	NM	NM	NM	NM	NM
TW-43	22-Nov-11	5440.42		12.47		5427.95	7.21	3.383	1.52	13.06	-23.1	NM
TW-43	28-Feb-12	5440.42		12.27		5428.15	NM	NM	NM	NM	NM	NM
TW-43	21-May-12	5440.42		12.26		5428.16	7.11	4.350	0.88	15.95	-17.1	NM
TW-43	10-Aug-12	5440.42		12.48		5427.94	NM	NM	NM	NM	NM	NM
TW-43	09-Nov-12	5440.42		12.50		5427.92	7.36	4.010	1.50	12.73	-31.1	3.0
TW-43	06-Feb-13	5440.42		12.39		5428.03	NM	NM	NM	NM	NM	NM
TW-43	13-May-13	5440.42		12.24		5428.18	6.86	5.920	1.69	14.88	33.5	3.0
TW-43	12-Aug-13	5440.42		12.66		5427.76	NM	NM	NM	NM	NM	NM
TW-43	04-Dec-13	5440.42		12.28		5428.14	7.92	3.034	0.41	12.69	96.1	NM
TW-43	19-Feb-14	5440.42		12.18		5428.24	NM	NM	NM	NM	NM	NM
TW-43	30-May-14	5440.42		11.92		5428.50	7.31	3.315	0.25	15.38	105.6	1.0
TW-43	05-Aug-14	5440.42		12.25		5428.17	NM	NM	NM	NM	NM	NM
TW-43	11-Dec-14	5440.42		12.42		5428.00	7.74	5.047	0.04	14.11	218.3	3.0

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-44	17-Dec-08	5444.08		12.66		5431.42	6.71	6.494	2.75	15.75	-43.4	1.25
TW-44	26-Jan-09	5444.08		14.93		5429.15	NM	NM	NM	NM	NM	NM
TW-44	24-Aug-09	5444.08		15.15		5428.93	6.74	9.788	6.47	16.80	248.3	1.50
TW-44	18-Feb-10	5444.08	15.02	15.04	0.02	5429.06	NM	NM	NM	NM	NM	NM
TW-44	07-May-10	5444.08	14.66	14.68	0.02	5429.42	NM	NM	NM	NM	NM	NM
TW-44	18-Aug-10	5444.08	14.98	15.00	0.02	5429.10	NM	NM	NM	NM	NM	NM
TW-44	15-Nov-10	5444.08	15.12	15.15	0.03	5428.95	NM	NM	NM	NM	NM	NM
TW-44	17-Feb-11	5444.08	15.02	15.03	0.01	5429.06	NM	NM	NM	NM	NM	NM
TW-44	17-May-11	5444.08	14.96	15.01	0.05	5429.11	Not Sampled - NAPL Present					
TW-44	23-Aug-11	5444.08	15.34	15.37	0.03	5428.73	Not Sampled - NAPL Present					
TW-44	16-Nov-11	5444.08	15.32	16.06	0.74	5428.63	Not Sampled - NAPL Present					
TW-44	29-Feb-12	5444.08	14.96	16.17	1.21	5428.91	Not Sampled - NAPL Present					
TW-44	14-May-12	5444.08	14.98	16.10	1.12	5428.91	Not Sampled - NAPL Present					
TW-44	10-Aug-12	5444.08	15.10	16.48	1.38	5428.74	NM	NM	NM	NM	NM	NM
TW-44	12-Nov-12	5444.08	15.15	16.59	1.44	5428.68	NM	NM	NM	NM	NM	NM
TW-44	06-Feb-13	5444.08	15.07	16.31	1.24	5428.80	NM	NM	NM	NM	NM	NM
TW-44	14-May-13	5444.08	14.96	16.04	1.08	5428.93	NM	NM	NM	NM	NM	NM
TW-44	12-Aug-13	5444.08	15.28	16.53	1.25	5428.58	NM	NM	NM	NM	NM	NM
TW-44	21-Nov-13	5444.08	15.02	16.11	1.09	5428.87	NM	NM	NM	NM	NM	NM
TW-44	19-Feb-14	5444.08	14.90	15.95	1.05	5429.00	NM	NM	NM	NM	NM	NM
TW-44	28-May-14	5444.08	14.77	15.75	0.98	5429.14	NM	NM	NM	NM	NM	NM
TW-44	05-Aug-14	5444.08	15.05	16.12	1.07	5428.84	NM	NM	NM	NM	NM	NM
TW-44	10-Dec-14	5444.08	15.13	16.21	1.08	5428.76	NM	NM	NM	NM	NM	NM
TW-45	13-May-10	TBS		6.58			7.01	5.204	4.93	11.52	179.0	3.75
TW-45	20-Aug-10	TBS		7.06			6.98	5.245	1.84	19.10	234.6	2.50

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-45	17-Nov-10	TBS		7.09			6.93	5.564	0.97	14.24	-7.2	0.50
TW-45	23-Feb-11	TBS		7.01			NM	NM	NM	NM	NM	NM
TW-45	18-May-11	TBS		7.20			6.98	3.793	0.84	11.97	-9.7	2.00
TW-45	24-Aug-11	TBS		7.40			NM	NM	NM	NM	NM	NM
TW-45	15-Nov-11	TBS		7.23			NM	NM	NM	NM	NM	NM
TW-45	29-Feb-12	TBS		7.02			NM	NM	NM	NM	NM	NM
TW-45	21-May-12	TBS		7.08			7.18	5.029	1.88	15.13	-21.1	NM
TW-45	10-Aug-12	TBS		7.30			NM	NM	NM	NM	NM	NM
TW-45	12-Nov-12	TBS		7.28			7.43	3.867	1.30	12.48	-35.2	3.0
TW-45	11-Feb-13	TBS		7.11			NM	NM	NM	NM	NM	NM
TW-45	13-May-13	TBS		6.95			7.08	6.765	1.13	15.23	17.6	3.0
TW-45	13-Aug-13	TBS		7.44			NM	NM	NM	NM	NM	NM
TW-45	04-Dec-13	TBS		6.99			8.03	3.089	0.38	9.92	-224.0	NM
TW-45	19-Feb-14	TBS		6.87			NM	NM	NM	NM	NM	NM
TW-45	30-May-14	TBS		6.73			7.34	3.986	0.27	14.13	119.0	3.0
TW-45	05-Aug-14	TBS		7.10			NM	NM	NM	NM	NM	NM
TW-45	11-Dec-14	TBS		7.15			7.78	5.450	0.15	11.95	188.1	3.0
TW-46	13-May-10	TBS		6.86			7.15	4.889	4.72	12.28	206.5	3.75
TW-46	20-Aug-10	TBS		7.31			7.13	5.262	1.14	19.45	241.2	0.50
TW-46	15-Nov-10	TBS		7.41			NM	NM	NM	NM	NM	NM
TW-46	23-Feb-11	TBS		7.34			NM	NM	NM	NM	NM	NM
TW-46	18-May-11	TBS		6.89			7.12	2.778	0.72	12.26	-17.7	0.50
TW-46	24-Aug-11	TBS		7.71			NM	NM	NM	NM	NM	NM
TW-46	22-Nov-11	TBS		7.67			7.39	5.122	1.53	13.16	-33.2	NM
TW-46	29-Feb-12	TBS		7.36			NM	NM	NM	NM	NM	NM
TW-46	21-May-12	TBS		7.37			7.14	4.727	0.60	15.22	-18.7	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-46	10-Aug-12	TBS		7.52			NM	NM	NM	NM	NM	NM
TW-46	12-Nov-12	TBS		7.56			7.59	4.095	0.79	13.71	-44.7	3.0
TW-46	11-Feb-13	TBS		7.45			NM	NM	NM	NM	NM	NM
TW-46	14-May-13	TBS		7.26			NM	NM	NM	NM	NM	NM
TW-46	13-Aug-13	TBS		7.68			NM	NM	NM	NM	NM	NM
TW-46	04-Dec-13	TBS		7.34			8.15	3.780	0.50	10.91	-0.2	NM
TW-46	19-Feb-14	TBS		7.21			NM	NM	NM	NM	NM	NM
TW-46	28-May-14	TBS		6.91			NM	NM	NM	NM	NM	NM
TW-46	05-Aug-14	TBS		7.25			NM	NM	NM	NM	NM	NM
TW-46	11-Dec-14	TBS		7.51			7.81	7.631	0.14	12.22	91.6	3.0
TW-47	13-May-10	TBS		6.04			7.23	11.86	3.36	12.89	214.8	3.75
TW-47	20-Aug-10	TBS		6.67			7.20	11.46	1.16	20.71	241.0	0.50
TW-47	17-Nov-10	TBS		6.93			7.08	10.79	2.09	14.87	-15.4	0.50
TW-47	23-Feb-11	TBS		6.94			NM	NM	NM	NM	NM	NM
TW-47	17-May-11	TBS		6.79			NM	NM	NM	NM	NM	NM
TW-47	24-Aug-11	TBS		7.31			NM	NM	NM	NM	NM	NM
TW-47	22-Nov-11	TBS		6.79			7.22	12.17	1.55	12.67	-23.4	1.00
TW-47	29-Feb-12	TBS		6.72			NM	NM	NM	NM	NM	NM
TW-47	22-May-12	TBS		7.84			NM	NM	NM	NM	NM	NM
TW-47	13-Aug-12	TBS		7.15			NM	NM	NM	NM	NM	NM
TW-47	12-Nov-12	TBS		7.05			7.50	8.861	1.23	14.15	-39.7	3.0
TW-47	11-Feb-13	TBS		6.88			NM	NM	NM	NM	NM	NM
TW-47	14-May-13	TBS		7.85			NM	NM	NM	NM	NM	NM
TW-47	13-Aug-13	TBS		7.23			NM	NM	NM	NM	NM	NM
TW-47	04-Dec-13	TBS		6.83			8.15	6.577	0.52	10.17	42.6	NM
TW-47	19-Feb-14	TBS		6.80			NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-47	28-May-14	TBS		6.61			NM	NM	NM	NM	NM	NM
TW-47	05-Aug-14	TBS		7.26			NM	NM	NM	NM	NM	NM
TW-47	11-Dec-14	TBS		6.90			7.89	11.54	0.22	12.28	118.2	3.0
TW-48	12-May-10	TBS		6.90			6.95	5.924	3.43	13.25	231.8	3.75
TW-48	19-Aug-10	TBS		7.18			6.85	5.861	1.75	21.73	405.2	2.50
TW-48	15-Nov-10	TBS		7.39			NM	NM	NM	NM	NM	NM
TW-48	17-Feb-11	TBS		7.31			NM	NM	NM	NM	NM	NM
TW-48	17-May-11	TBS		7.30			NM	NM	NM	NM	NM	NM
TW-48	24-Aug-11	TBS		7.50			NM	NM	NM	NM	NM	NM
TW-48	16-Nov-11	TBS		7.39			NM	NM	NM	NM	NM	NM
TW-48	28-Feb-12	TBS		7.28			NM	NM	NM	NM	NM	NM
TW-48	22-May-12	TBS		7.08			NM	NM	NM	NM	NM	NM
TW-48	13-Aug-12	TBS	Not Measured - Root Growth at 7.0'									
TW-48	12-Nov-12	TBS	Not Measured - Root Growth at 7.0'									
TW-48	11-Feb-13	TBS	Not Measured - Root Growth at 7.0'									
TW-48	14-May-13	TBS	Not Measured - Root Growth at 7.0'									
TW-48	13-Aug-13	TBS	Not Measured - Root Growth at 7.0'									
TW-48	03-Dec-03	TBS	Not Measured - Root Growth at 7.0'									
TW-48	19-Feb-14	TBS		7.18			NM	NM	NM	NM	NM	NM
TW-48	28-May-14	TBS	Not Measured - Root Growth at 7.0'									
TW-48	05-Aug-14	TBS	Not Measured - Root Growth at 7.0'									
TW-48	12-Dec-14	TBS		7.32			7.69	4.862	0.03	10.63	17.4	3.0
TW-49	17-May-10	TBS		5.32			7.73	6.88	3.06	15.48	228.50	0.00
TW-49	20-Aug-10	TBS		5.84			NM	NM	NM	NM	NM	NM
TW-49	15-Nov-10	TBS		6.36			NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-49	23-Feb-11	TBS		6.27			NM	NM	NM	NM	NM	NM
TW-49	17-May-11	TBS		6.24			NM	NM	NM	NM	NM	NM
TW-49	24-Aug-11	TBS		6.61			NM	NM	NM	NM	NM	NM
TW-49	22-Nov-11	TBS		6.14			NM - Roots in well					
TW-49	29-Feb-12	TBS		6.11			NM	NM	NM	NM	NM	NM
TW-49	22-May-12	TBS		6.10			7.08	6.360	1.35	14.30	-15.6	NM
TW-49	13-Aug-12	TBS		6.49			NM	NM	NM	NM	NM	NM
TW-49	12-Nov-12	TBS		6.41			7.28	7.350	2.72	10.35	-26.6	3.0
TW-49	11-Feb-13	TBS		6.25			NM	NM	NM	NM	NM	NM
TW-49	14-May-13	TBS		6.33			NM	NM	NM	NM	NM	NM
TW-49	13-Aug-13	TBS		6.70			NM	NM	NM	NM	NM	NM
TW-49	04-Dec-13	TBS		5.98			8.07	5.430	0.68	7.39	80.8	NM
TW-49	19-Feb-14	TBS		5.89			NM	NM	NM	NM	NM	NM
TW-49	28-May-14	TBS		6.34			NM	NM	NM	NM	NM	NM
TW-49	05-Aug-14	TBS		6.31			NM	NM	NM	NM	NM	NM
TW-49	12-Dec-14	TBS		6.03			NM	NM	NM	NM	NM	NM
TW-50	12-May-10	TBS		7.30			6.92	5.815	1.25	13.27	231.5	3.75
TW-50	19-Aug-10	TBS		7.67			6.96	5.946	0.45	22.26	334.4	2.50
TW-50	15-Nov-10	TBS		8.06			NM	NM	NM	NM	NM	NM
TW-50	17-Feb-11	TBS		7.99			NM	NM	NM	NM	NM	NM
TW-50	19-May-11	TBS		7.89			7.13	5.337	0.78	12.42	-18.3	0.50
TW-50	24-Aug-11	TBS		8.08			NM	NM	NM	NM	NM	NM
TW-50	17-Nov-11	TBS		8.08			7.19	4.889	0.35	16.56	-21.9	1.00
TW-50	28-Feb-12	TBS		7.98			NM	NM	NM	NM	NM	NM
TW-50	22-May-12	TBS		7.58			7.15	5.354	0.45	16.25	-19.7	NM
TW-50	13-Aug-12	TBS		7.94			NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-50	12-Nov-12	TBS		8.28			7.56	4.756	1.59	11.69	-42.5	3.0
TW-50	11-Feb-13	TBS		8.06			NM	NM	NM	NM	NM	NM
TW-50	14-May-13	TBS		8.12			NM	NM	NM	NM	NM	NM
TW-50	13-Aug-13	TBS	8.28	8.42	0.14		NM	NM	NM	NM	NM	NM
TW-50	05-Dec-13	TBS	7.96	8.38	0.42		NM	NM	NM	NM	NM	NM
TW-50	19-Feb-14	TBS	7.82	8.21	0.42		NM	NM	NM	NM	NM	NM
TW-50	28-May-14	TBS	9.09	9.48	0.39		NM	NM	NM	NM	NM	NM
TW-50	05-Aug-14	TBS	9.41	9.81	0.40		NM	NM	NM	NM	NM	NM
TW-50	10-Dec-14	TBS	7.99	8.36	0.37		NM	NM	NM	NM	NM	NM
TW-51	13-Aug-12	TBS		7.26			NM	NM	NM	NM	NM	NM
TW-51	12-Nov-12	TBS		7.22			7.31	5.519	0.34	13.70	-28.8	3.0
TW-51	11-Feb-13	TBS		7.08			NM	NM	NM	NM	NM	NM
TW-51	14-May-13	TBS		6.92			NM	NM	NM	NM	NM	NM
TW-51	13-Aug-13	TBS		7.37			NM	NM	NM	NM	NM	NM
TW-51	05-Dec-13	TBS		6.94			7.83	3.961	0.13	10.58	32.0	NM
TW-51	19-Feb-14	TBS		6.80			NM	NM	NM	NM	NM	NM
TW-51	28-May-14	TBS		6.69			NM	NM	NM	NM	NM	NM
TW-51	05-Aug-14	TBS		7.06			NM	NM	NM	NM	NM	NM
TW-51	12-Dec-14	TBS		7.12			7.77	6.681	0.08	11.08	102.1	3.0
TW-52	12-Nov-12	TBS		7.72			7.70	5.338	5.66	12.03	-50.3	2.0
TW-52	11-Feb-13	TBS		7.52			NM	NM	NM	NM	NM	NM
TW-52	13-May-13	TBS		7.33			7.20	8.553	0.81	14.93	4.8	1.0
TW-52	13-Aug-13	TBS		7.93			NM	NM	NM	NM	NM	NM
TW-52	05-Dec-13	TBS		7.31			7.90	7.811	0.22	9.19	153.3	NM
TW-52	19-Feb-14	TBS		7.20			NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-52	30-May-14	TBS		7.15			7.42	6.654	0.25	15.05	102.5	0.5
TW-52	05-Aug-14	TBS		7.59			NM	NM	NM	NM	NM	NM
TW-52	12-Dec-14	TBS		7.57			7.73	7.092	0.10	10.92	101.0	3.0
TW-53	11-Feb-13	TBS		7.24			NM	NM	NM	NM	NM	NM
TW-53	13-May-13	TBS		7.05			7.39	9.674	0.89	15.30	9.1	3.0
TW-53	13-Aug-13	TBS		7.64			NM	NM	NM	NM	NM	NM
TW-53	05-Dec-13	TBS		7.06			8.01	5.312	0.18	10.12	130.4	NM
TW-53	19-Feb-14	TBS		6.94			NM	NM	NM	NM	NM	NM
TW-53	28-May-14	TBS		6.90			NM	NM	NM	NM	NM	NM
TW-53	05-Aug-14	TBS		7.38			NM	NM	NM	NM	NM	NM
TW-53	12-Dec-14	TBS		7.33			7.80	8.208	0.10	11.38	112.8	NM
TW-54	11-Feb-13	TBS		7.66			NM	NM	NM	NM	NM	NM
TW-54	13-May-13	TBS		7.50			7.39	7.696	0.68	14.27	2.4	3.0
TW-54	13-Aug-13	TBS		8.88			NM	NM	NM	NM	NM	NM
TW-54	06-Dec-13	TBS		7.54			7.91	3.632	0.10	9.11	79.4	NM
TW-54	19-Feb-14	TBS		7.39			NM	NM	NM	NM	NM	NM
TW-54	30-May-14	TBS		7.29			7.43	4.642	0.22	13.93	82.4	3.0
TW-54	05-Aug-14	TBS		7.74			NM	NM	NM	NM	NM	NM
TW-54	12-Dec-14	TBS		7.74			7.81	5.671	0.08	12.11	159.9	NM
MW-5	30-Jan-02	5428.97		5.33								P
MW-5	25-Jul-02	5428.97		5.73			7.8	4.78	1.18	69		P
MW-5	21-Nov-02	5428.97		5.43								
MW-5	05-Jun-03	5428.97		5.02			8.0	3.07	1.44	59.4		B
MW-5	19-Jan-04	5428.97		5.25			7.7	1.14	2.61	47.6		P

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SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-5	25-May-04	5428.97		5.04			7.5	3.21	0.45	60.4		3.00
MW-5	27-Jul-04	5428.97		5.43			8.1	4.07		75.5		B
MW-5	28-Dec-04	5428.97		5.26			8.0					MP
MW-5	31-Mar-05	5428.97		4.62			7.3	2.77	0.39	52.7		MP
MW-5	19-Sep-05	5428.97	DRY	DRY	DRY		NM	NM	NM	NM		
MW-5	5-Jan-06	5428.97	DRY	DRY	DRY		NM	NM	NM	NM		
MW-5	27-Jun-06	5428.97		5.43			7.2	4.197	0.37	16		3
MW-5	28-Dec-06	5428.97		4.88			7.3	7.927	0.54	10.4		3
MW-5	3-Jul-07	5428.97		5.07			7.86	4.478	2.93	16.4		1.7
MW-5	18-Dec-07	5428.97	Not Sampled - Filled with Roots									
MW-5	19-Dec-08	5428.97		5.04		5423.93	6.76	7.748	4.02	11.73		0.25
MW-5	19-Dec-08	5428.97		5.04		5423.93	6.76	7.748	4.02	11.73		0.25
MW-5	18-Feb-10	5428.97		4.73		5424.24	7.39	8.422	3.30	9.93	403.1	3.00
MW-5	12-May-10	5428.97		4.32		5424.65	7.35	6.146	2.68	11.52	225.3	3.75
MW-5	18-Aug-10	5428.97		4.99		5423.98	NM	NM	NM	NM	NM	NM
MW-5	17-Nov-10	5428.97		5.17		5423.80	7.62	6.121	1.36	14.15	-46.2	3.00
MW-5	17-Feb-11	5428.97		5.08		5423.89	NM	NM	NM	NM	NM	NM
MW-5	17-May-11	5428.97		5.03		5423.94	NM	NM	NM	NM	NM	NM
MW-5	24-Aug-11	5428.97		5.69		5423.28	NM	NM	NM	NM	NM	NM
MW-5	16-Nov-11	5428.97		5.64		5423.33	NM	NM	NM	NM	NM	NM
MW-5	28-Feb-12	5428.97		5.09		5423.88	NM	NM	NM	NM	NM	NM
MW-5	22-May-12	5428.97		5.13		5423.84	NM	NM	NM	NM	NM	NM
MW-5	13-Aug-12	5428.97		5.24		5423.73	NM	NM	NM	NM	NM	NM
MW-5	12-Nov-12	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-5	11-Feb-13	5428.97		5.19		5423.78	NM	NM	NM	NM	NM	NM
MW-5	14-May-13	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-5	13-Aug-13	5428.97		5.45		5423.52	NM	NM	NM	NM	NM	NM

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SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-5	05-Dec-13	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-5	19-Feb-14	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-5	28-May-14	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-5	05-Aug-14	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-5	12-Dec-14	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-7	1-Feb-02	5435.28		5.32		37288.00						No Sample
MW-7	29-Jul-02	5435.28		6.11		37466.00						No Sample
MW-7	6-Jun-03	5435.28		9.06		37778.00						No Sample
MW-7	19-Jan-04	5435.28		9.06		38005.00	7.0	2.827	0.93	49.7		P
MW-7	25-May-04	5435.28		9.14		38132.00	6.8	3.76	0.27	63.2		3
MW-7	27-Jul-04	5435.28		9.08		38195.00	7.3	5.32		72.8		B
MW-7	28-Dec-04	5435.28		9.05		38349.00	7.8					MP
MW-7	31-Mar-05	5435.28		7.67		38442.00	6.5	3.011	0.5	52		MP
MW-7	19-Sep-05	5435.28		9.20		38614.00	7.0	4.802	0.41	70.8		
MW-7	4-Jan-06	5435.28		8.14		38721.00	7.0	3.625	0.48	14.5		3
MW-7	02-Jan-07	5435.28		8.75		39084.00	NM	NM	NM	NM		No Sample
MW-7	19-Dec-07	5435.28		8.43		39435.00	NM	NM	NM	NM		No Sample
MW-7	17-May-10	5435.28		8.50		5426.78	6.95	6.66	3.08	13.83	217.6	3.75
MW-7	19-Aug-10	5435.28		8.20		5427.08	7.07	5.994	1.33	20.45	325.3	2.50
MW-7	15-Nov-10	5435.28		8.83		5426.45	NM	NM	NM	NM	NM	No Sample
MW-7	17-Feb-11	5435.28		8.76		5426.52	NM	NM	NM	NM	NM	NM
MW-7	17-May-11	5435.28		8.58		5426.70	NM	NM	NM	NM	NM	NM
MW-7	24-Aug-11	5435.28		9.03		5426.25	NM	NM	NM	NM	NM	NM
MW-7	16-Nov-11	5435.28		8.86		5426.42	NM	NM	NM	NM	NM	NM
MW-7	28-Feb-12	5435.28		8.69		5426.59	NM	NM	NM	NM	NM	NM
MW-7	22-May-12	5435.28		8.08		5427.20	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-7	13-Aug-12	5435.28		8.84		5426.44	NM	NM	NM	NM	NM	NM
MW-7	12-Nov-12	5435.28		9.09		5426.19	7.39	4.585	1.20	13.05	-33.4	3.0
MW-7	11-Feb-13	5435.28		8.88		5426.40	NM	NM	NM	NM	NM	NM
MW-7	13-May-13	5435.28		8.76		5426.52	6.92	6.802	0.90	15.50	7.2	3.0
MW-7	13-Aug-13	5435.28		9.24		5426.04	NM	NM	NM	NM	NM	NM
MW-7	06-Dec-13	5435.28		8.72		5426.56	8.12	8.218	0.18	10.75	-141.4	NM
MW-7	19-Feb-14	5435.28		8.42		5426.86	NM	NM	NM	NM	NM	NM
MW-7	30-May-14	5435.28		8.44		5426.84	7.45	4.784	0.28	14.54	63.0	3.0
MW-7	05-Aug-14	5435.28		9.16		5426.12	NM	NM	NM	NM	NM	NM
MW-7	12-Dec-14	5435.28		8.69		5426.59	8.07	5.356	7.70	12.11	-60.5	NM
MW-20	31-Jan-02	5430.45		6.04								P
MW-20	26-Jul-02	5430.45		6.31			7.2	2.95	1.22	79.6		P
MW-20	20-Nov-02	5430.45		5.85			7.1	1.9	0.30	55.0		P
MW-20	5-Jun-03	5430.45		5.89			7.1	3.43	1.58	58.1		
MW-20	20-Jan-04	5430.45		6.08			7.5	0.35	3.23	51.8		P
MW-20	25-May-04	5430.45		5.90			7.1	4.01	1.2	72.3		1.5
MW-20	27-Jul-04	5430.45		6.29			7.0	5.12		66.1		B
MW-20	29-Dec-04	5430.45		6.07								MP
MW-20	1-Apr-05	5430.45		5.69			6.5	2.378	0.55	54.4		
MW-20	19-Sep-05	5430.45		6.02			7.0	3.466	0.37	66.1		
MW-20	4-Jan-06	5430.45		5.85			7.0	3.47	0.6	12.3		3
MW-20	28-Jun-06	5430.45		6.18			6.7	4.979	0.34	17.8		3
MW-20	28-Dec-06	5430.45		5.50			7.0	8.505	0.51	8.9		3
MW-20	2-Jul-07	5430.45		5.75			7.0	4.841	1.32	16.09		2.6
MW-20	18-Dec-07	5430.45		5.89			7.05	5.621	2.89	12.10		1.25
MW-20	21-Jan-09	5430.45		5.86			6.73	5.996	3.58	8.34		0.5

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-20	18-Feb-10	5430.45		5.81		5424.64	6.67	7.249	3.67	8.20	395.0	2.50
MW-20	13-May-10	5430.45		5.52		5424.93	6.96	4.948	2.09	10.89	216.9	3.75
MW-20	20-Aug-10	5430.45		6.01		5424.44	7.12	4.836	1.09	18.44	236.4	2.50
MW-20	17-Nov-10	5430.45		6.05		5424.40	6.94	5.167	0.40	13.63	-7.7	0.50
MW-20	23-Feb-11	5430.45		5.92		5424.53	NM	NM	NM	NM	NM	NM
MW-20	18-May-11	5430.45		5.88		5424.57	6.99	3.637	0.69	11.33	-10.6	2.00
MW-20	24-Aug-11	5430.45		6.35		5424.10	NM	NM	NM	NM	NM	NM
MW-20	22-Nov-11	5430.45		6.22		5424.23	7.20	4.983	1.02	12.81	-22.1	1.00
MW-20	29-Feb-12	5430.45		5.99		5424.46	NM	NM	NM	NM	NM	NM
MW-20	21-May-12	5430.45		6.04		5424.41	7.09	4.748	0.38	14.15	-15.8	NM
MW-20	13-Aug-12	5430.45		6.13		5424.32	NM	NM	NM	NM	NM	NM
MW-20	12-Nov-12	5430.45		6.19		5424.26	7.33	4.164	0.39	12.81	-29.5	3.0
MW-20	11-Feb-13	5430.45		6.09		5424.36	NM	NM	NM	NM	NM	NM
MW-20	13-May-13	5430.45		5.90		5424.55	7.13	6.598	0.41	13.97	-14.4	3.0
MW-20	13-Aug-13	5430.45		6.31		5424.14	NM	NM	NM	NM	NM	NM
MW-20	06-Dec-13	5430.45		5.99		5424.46	8.01	4.657	0.10	9.49	54.1	NM
MW-20	19-Feb-14	5430.45		5.85		5424.60	NM	NM	NM	NM	NM	NM
MW-20	30-May-14	5430.45		5.44		5425.01	7.33	5.063	0.29	13.73	56.3	3.0
MW-20	05-Aug-14	5430.45		5.80		5424.65	NM	NM	NM	NM	NM	NM
MW-20	11-Dec-14	5430.45		6.14		5424.31	7.80	6.621	0.06	11.73	73.6	3.0
MW-21	30-Jan-02	5428.62		3.41								P
MW-21	26-Jul-02	5428.62		4.15								
MW-21	22-Nov-02	5428.62		3.51			7.1	7.58	0.55	55.0		P
MW-21	5-Jun-03	5428.62		3.21			7.2	7.79	0.95	65.4		
MW-21	20-Jan-04	5428.62		3.57			7.4	0.31	3.40	46.7		P
MW-21	25-May-04	5428.62		3.49			7.2	7.56	0.49	64.5		2.5

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-21	28-Jul-04	5428.62		4.12			7.3	11.42		67.1		B
MW-21	29-Dec-04	5428.62		3.36								MP
MW-21	1-Apr-05	5428.62		2.77			6.7	5.747	0.28	50.9		
MW-21	19-Sep-05	5428.62		3.84			7.2	8.598	0.39	67.8		
MW-21	4-Jan-06	5428.62		3.27			7.1	6.118	0.77	11.9		3
MW-21	28-Jun-06	5428.62		3.81			6.8	9.223	0.32	19.8		3
MW-21	02-Jan-07	5428.62		3.23			6.7	9.393	0.9	8.2		3
MW-21	02-Jul-07	5428.62		3.54			7.0	9.066	0.86	18.74		2.7
MW-21	18-Dec-07	5428.62		3.54			7.12	8.043	0.62	12.90		3.25
MW-21	19-Dec-08	5428.62		3.43			6.79	7.562	9.78	11.04		1.25
MW-21	18-Feb-10	5428.62		2.86		5425.76	6.82	9.049	8.21	7.91	367.2	3.00
MW-21	13-May-10	5428.62		2.69		5425.93	7.06	7.075	1.74	12.41	224.9	3.75
MW-21	20-Aug-10	5428.62		3.31		5425.31	7.06	6.836	1.09	21.23	234.4	NM
MW-21	17-Nov-10	5428.62		3.68		5424.94	7.02	7.817	0.56	15.42	-12.0	0.50
MW-21	23-Feb-11	5428.62		3.65		5424.97	NM	NM	NM	NM	NM	NM
MW-21	18-May-11	5428.62		3.52		5425.10	7.07	5.026	1.05	13.05	-14.8	2.00
MW-21	24-Aug-11	5428.62		4.04		5424.58	NM	NM	NM	NM	NM	NM
MW-21	22-Nov-11	5428.62		3.64		5424.98	7.16	6.972	1.09	13.16	-20.1	1.00
MW-21	29-Feb-12	5428.62		3.52		5425.1	NM	NM	NM	NM	NM	NM
MW-21	21-May-12	5428.62		3.50		5425.12	7.21	6.073	0.99	15.48	-23.1	NM
MW-21	13-Aug-12	5428.62		3.88		5424.74	NM	NM	NM	NM	NM	NM
MW-21	12-Nov-12	5428.62		3.86		5424.76	7.27	4.794	1.02	12.85	-26.3	3.0
MW-21	11-Feb-13	5428.62		3.69		5424.93	NM	NM	NM	NM	NM	NM
MW-21	13-May-13	5428.62		3.62		5425.00	7.22	7.792	1.33	15.19	2.1	3.0
MW-21	13-Aug-13	5428.62		4.06		5424.56	NM	NM	NM	NM	NM	NM
MW-21	06-Dec-13	5428.62		3.65		5424.97	7.92	4.301	0.13	10.40	135.5	NM
MW-21	19-Feb-14	5428.62		3.53		5425.09	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*	*Corrected GW (ft)*	*pH*	*Conductivity (mS)*	*Dissolved Oxygen (mg/L)*	*Temp. (°C)*	*ORP (mV)*	*Purge Volume (gallons)*
MW-21	30-May-14	5428.62		3.34		5425.28	7.43	4.616	0.25	14.61	72.4	3.0
MW-21	05-Aug-14	5428.62		4.08		5424.54	NM	NM	NM	NM	NM	NM
MW-21	11-Dec-14	5428.62		3.67		5424.95	7.78	6.235	0.14	12.57	163.4	NM

Notes: **NM** **Not measured**

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-1	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-1	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-2	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-2	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-3	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-3	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-4	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-4	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-5	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-5	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-6	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-6	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-7	15-Dec-08	**67**	**1,700**	710	**4,200**	<10	**308**	15	2.1	<5.0
TW-7	19-Aug-09	3.8	11	98	15	<1.0	19	0.79	<1.0	<5.0
TW-7	18-May-11	<5.0	23	310	37	<5.0	**49**	NA	NA	NA
TW-7	17-Nov-11	1.5	19	100	45	<1.0	25	1.40	<1.0	<5.0
TW-7	17-May-12	2.5	24	370	150	<1.0	**32**	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-7	26-Nov-12	<5.0	<5.0	120	20	<5.0	<10	1.3	<1.0	<5.0
TW-7	9-May-13	1.0	12	280	73	<1.0	12	NA	NA	NA
TW-8	16-Dec-08	**120**	15	330	**950**	<5.0	**92**	8.9	1.4	<5.0
TW-8	19-Aug-09	**26**	<1.0	82	130	<1.0	<2.0	1.7	<1.0	<5.0
TW-8	18-May-11	**32**	<5.0	150	130	<5.0	<10	NA	NA	NA
TW-8	17-May-12	**17**	<1.0	130	46	<1.0	<2.0	NA	NA	NA
TW-8	26-Nov-12	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	0.11	<1.0	<5.0
TW-8	9-May-13	4.3	<1.0	92	40	<1.0	<2.0	NA	NA	NA
TW-8	3-Dec-13	<1.0	<1.0	1.2	<1.5	<1.0	<2.0	0.31	<1.0	<5.0
TW-8	29-May-14	<1.0	<1.0	23.0	4.2	<1.0	<2.0	NM	NM	NM
TW-8	10-Dec-14	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	0.14	<1.0	<5.0
TW-9	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-9	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-10	16-Dec-08	1.4	<1.0	3.9	9.9	<1.0	<10	0.29	<1.0	<5.0
TW-10	20-Aug-09	<1.0	<1.0	1.1	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-11	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-11	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-11	17-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-11	11-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene µg/L***	***Toluene µg/L***	***Ethyl-benzene µg/L***	***Xylenes µg/L***	***MTBE µg/L***	***Naph-thalene µg/L***	***GRO C6-C10 mg/L***	***DRO C10-C22 mg/L***	***MRO mg/L***
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-11	17-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-12	15-Dec-08	6.9	33	670	**1,700**	<5.0	**317**	3.4	1.9	<5.0
TW-12	20-Aug-09	<1.0	<1.0	19	25	<1.0	<2.0	0.25	<1.0	<5.0
TW-12	17-Feb-10	1.3	<1.0	35	48	<1.0	2.4	0.43	<1.0	<5.0
TW-12	11-May-10	1.7	2.0	49	72	<1.0	<2.0	0.18	1.2	<5.0
TW-12	19-Aug-10	1.4	<1.0	53	65	<1.0	<2.0	0.40	<1.0	<5.0
TW-13	17-Dec-08	**Not Sampled-NAPL present**								
TW-13	21-Aug-09	**Not Sampled-NAPL present**								
TW-13	17-Feb-10	**Not Sampled-NAPL present**								
TW-13	7-May-10	**Not Sampled-NAPL present**								
TW-13	18-Aug-10	**Not Sampled-NAPL present**								
TW-13	15-Nov-10	**Not Sampled-NAPL present**								
TW-13	18-May-11	**Not Sampled-NAPL present (sheen)**								
TW-13	15-Nov-11	**Not Sampled-NAPL present**								
TW-14	17-Dec-08	**Not Sampled-NAPL present**								
TW-14	21-Aug-09	**Not Sampled-NAPL present**								
TW-14	17-Feb-10	**Not Sampled-NAPL present**								
TW-14	11-May-10	**Not Sampled-NAPL present (sheen)**								
TW-14	18-Aug-10	**Not Sampled-NAPL present**								
TW-14	18-May-11	**Not Sampled-NAPL present (sheen)**								

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-14	15-Nov-11	**Not Sampled-NAPL present**								
TW-15	16-Dec-08	**22**	9.2	190	10	<1.0	10	1.1	1.2	<5.0
TW-15	20-Aug-09	6.2	1.7	94	<1.5	<1.0	<2.0	0.69	<1.0	<5.0
TW-15	17-May-12	**11**	1.6	37	<2.0	<1.0	<2.0	NA	NA	NA
TW-15	9-May-13	6.9	<1.0	13	<2.0	<1.0	<2.0	NA	NA	NA
TW-15	29-May-14	7.6	1.3	5.5	<2.0	<1.0	<2.0	NM	NM	NM
TW-16	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-16	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-17	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-17	21-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-18	16-Dec-08	8.9	<1.0	31	18	1.9	<10	0.70	<1.0	<5.0
TW-18	21-Aug-09	2.5	<1.0	12	<1.5	3.2	<2.0	0.11	<1.0	<5.0
TW-18	17-Feb-10	8.0	<1.0	38	12	1.2	<2.0	0.37	<1.0	<5.0
TW-18	11-May-10	3.1	<1.0	21	<2.0	2.5	<2.0	0.21	<1.0	<5.0
TW-18	16-Nov-10	1.8	5.5	15	<1.5	1.6	<2.0	0.12	<1.0	<5.0
TW-18	17-Nov-11	1.9	<1.0	13	<2.0	<1.0	<2.0	0.12	<1.0	<5.0
TW-18	17-May-12	5.3	<1.0	31	<2.0	<1.0	<2.0	NA	NA	NA
TW-18	26-Nov-12	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-18	3-Dec-13	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene µg/L***	***Toluene µg/L***	***Ethyl-benzene µg/L***	***Xylenes µg/L***	***MTBE µg/L***	***Naph-thalene µg/L***	***GRO C6-C10 mg/L***	***DRO C10-C22 mg/L***	***MRO mg/L***
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-18	10-Dec-14	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-19	17-Dec-08	**Not Sampled-NAPL present**								
TW-19	21-Aug-09	**Not Sampled-NAPL present**								
TW-19	17-Feb-10	**Not Sampled-Surface Casing Damaged**								
TW-19	7-May-10	**Not Sampled-NAPL present**								
TW-19	18-Aug-10	**Not Sampled-NAPL present (sheen)**								
TW-19	15-Nov-10	**Not Sampled-NAPL present**								
TW-19	18-May-11	**Not Sampled-NAPL present**								
TW-19	15-Nov-11	**Not Sampled-NAPL present**								
TW-20	17-Dec-08	**Not Sampled-NAPL present**								
TW-20	21-Aug-09	**Not Sampled-NAPL present**								
TW-20	17-Feb-10	**Not Sampled-NAPL present**								
TW-20	7-May-10	**Not Sampled-NAPL present**								
TW-20	18-Aug-10	**Attached to RSI Unit**								
TW-20	18-Aug-10	**Not Sampled-NAPL present**								
TW-20	18-May-11	**Not Sampled-NAPL present**								
TW-20	15-Nov-11	**Not Sampled-NAPL present**								
TW-21	17-Dec-08	**Not Sampled-NAPL present**								
TW-21	21-Aug-09	**Not Sampled-NAPL present**								
TW-21	17-Feb-10	**Not Sampled-Surface Casing Damaged**								

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene µg/L***	***Toluene µg/L***	***Ethyl-benzene µg/L***	***Xylenes µg/L***	***MTBE µg/L***	***Naph-thalene µg/L***	***GRO C6-C10 mg/L***	***DRO C10-C22 mg/L***	***MRO mg/L***
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-21	7-May-10	**Not Sampled-Surface Casing Damaged**								
TW-21	18-Aug-10	**Not Sampled-Surface Casing Damaged**								
TW-21	15-Nov-10	**Not Sampled-Surface Casing Damaged**								
TW-21	18-May-11	**Not Sampled-Surface Casing Damaged**								
TW-22	17-Dec-08	**Not Sampled-NAPL present**								
TW-22	21-Aug-09	**Not Sampled-NAPL present**								
TW-22	17-Feb-10	**Not Sampled-NAPL present**								
TW-22	7-May-10	**Not Sampled-NAPL present**								
TW-22	18-Aug-10	**Not Sampled-NAPL present**								
TW-22	15-Nov-10	**Not Sampled-NAPL present**								
TW-22	18-May-11	**Not Sampled-NAPL present**								
TW-22	15-Nov-11	**Not Sampled-NAPL present**								
TW-22	29-May-14	4.0	<1.0	6.5	130	3.9	7.4	NM	NM	NM
TW-23	18-Dec-08	<1.0	<1.0	93	<1.5	<1.0	<10	0.77	1.4	<5.0
TW-23	21-Aug-09	<1.0	<1.0	24	<1.5	<1.0	<2.0	0.34	<1.0	<5.0
TW-23	10-Dec-14	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.10	<1.0	<5.0
TW-24	17-Dec-08	7.5	<1.0	10	<1.5	5.6	2.6	0.26	<1.0	<5.0
TW-24	21-Aug-09	**Not Sampled-NAPL present**								
TW-24	17-Feb-10	1.7	<1.0	7.0	<2.0	4.3	<2.0	0.62	2.4	<5.0
TW-24	11-May-10	9.1	<1.0	25	<2.0	3.8	3.0	0.92	8.7	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene µg/L***	***Toluene µg/L***	***Ethyl-benzene µg/L***	***Xylenes µg/L***	***MTBE µg/L***	***Naph-thalene µg/L***	***GRO C6-C10 mg/L***	***DRO C10-C22 mg/L***	***MRO mg/L***
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-24	18-Aug-10	**Not Sampled-NAPL present (sheen)**								
TW-24	15-Nov-10	**Not Sampled-NAPL present**								
TW-24	18-May-11	**Not Sampled-NAPL present**								
TW-24	15-Nov-11	**Not Sampled-NAPL present**								
TW-24	10-Dec-14	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	0.068	<1.0	<5.0
TW-25	17-Dec-08	**Not Sampled-NAPL present**								
TW-25	21-Aug-09	**Not Sampled-NAPL present**								
TW-25	17-Feb-10	**Not Sampled-NAPL present**								
TW-25	7-May-10	**Not Sampled-NAPL present**								
TW-25	18-Aug-10	**Not Sampled-NAPL present**								
TW-25	15-Nov-10	**Not Sampled-NAPL present**								
TW-25	18-May-11	**Not Sampled-NAPL present**								
TW-25	15-Nov-11	**Not Sampled-NAPL present**								
TW-26	17-Dec-08	**Not Sampled-NAPL present**								
TW-26	21-Aug-09	**Not Sampled-NAPL present**								
TW-26	17-Feb-10	**Not Sampled-NAPL present**								
TW-26	7-May-10	**Not Sampled-NAPL present**								
TW-26	18-Aug-10	**Not Sampled-NAPL present**								
TW-26	15-Nov-10	**Not Sampled-NAPL present**								
TW-26	18-May-11	**Not Sampled-NAPL present**								
TW-26	15-Nov-11	**Not Sampled-NAPL present**								

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene µg/L***	***Toluene µg/L***	***Ethyl-benzene µg/L***	***Xylenes µg/L***	***MTBE µg/L***	***Naph-thalene µg/L***	***GRO C6-C10 mg/L***	***DRO C10-C22 mg/L***	***MRO mg/L***
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-28	17-Dec-08	**Not Sampled-NAPL present**								
TW-28	21-Aug-09	**Not Sampled-NAPL present**								
TW-28	17-Feb-10	**Not Sampled-NAPL present**								
TW-28	7-May-10	**Not Sampled-NAPL present**								
TW-28	18-Aug-10	**Not Sampled-NAPL present**								
TW-28	15-Nov-10	**Not Sampled-NAPL present**								
TW-28	18-May-11	**Not Sampled-NAPL present**								
TW-28	15-Nov-11	**Not Sampled-NAPL present**								
TW-29	17-Dec-08	**Not Sampled-NAPL present**								
TW-29	21-Aug-09	**Not Sampled-NAPL present**								
TW-29	17-Feb-10	**34**	<1.0	16	260	7.9	**40**	2.7	13	<5.0
TW-29	7-May-10	**Not Sampled-NAPL present**								
TW-29	18-Aug-10	**Not Sampled-NAPL present**								
TW-29	15-Nov-10	**Not Sampled-NAPL present**								
TW-29	18-May-11	**Not Sampled-NAPL present**								
TW-29	15-Nov-11	**Not Sampled-NAPL present**								
TW-30	18-Dec-08	<1.0	<1.0	<1.0	<1.5	24	<10	0.087	2.8	<5.0
TW-30	21-Aug-09	<1.0	<1.0	<1.0	<1.5	20	<2.0	0.055	<1.0	<5.0
TW-30	17-Feb-10	<1.0	<1.0	<1.0	<2.0	21	<2.0	0.056	<1.0	<5.0
TW-30	11-May-10	<1.0	<1.0	<1.0	<2.0	21	<2.0	0.071	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-30	15-Nov-10	3.8	<1.0	<1.0	<1.5	14	<2.0	0.15	<1.0	<5.0
TW-30	17-Nov-11	4.9	<1.0	<1.0	<2.0	7.9	<2.0	0.16	<1.0	<5.0
TW-30	27-Nov-12	2.9	<1.0	<1.0	<2.0	6.3	<2.0	0.16	<1.0	<5.0
TW-30	3-Dec-13	1.4	<1.0	<1.0	<1.5	7.9	<2.0	0.056	<1.0	<5.0
TW-30	10-Dec-14	<1.0	<1.0	<1.0	<1.5	7.7	<2.0	<0.050	<1.0	<5.0
TW-31	16-Dec-08	<1.0	<1.0	<1.0	<1.5	12	<10	<0.050	<1.0	<5.0
TW-31	21-Aug-09	<1.0	<1.0	<1.0	<1.5	16	<2.0	<0.050	<1.0	<5.0
TW-31	17-Feb-10	<1.0	<1.0	<1.0	<2.0	10	<2.0	<0.050	<1.0	<5.0
TW-31	11-May-10	<1.0	<1.0	<1.0	<2.0	9.2	<2.0	<0.050	<1.0	<5.0
TW-31	16-Nov-10	<1.0	<1.0	<1.0	<1.5	6.5	<2.0	<0.050	<1.0	<5.0
TW-31	17-Nov-11	<1.0	<1.0	<1.0	<2.0	1.7	<2.0	<0.050	<1.0	<5.0
TW-31	27-Nov-12	<1.0	<1.0	<1.0	<2.0	5.4	<2.0	<0.050	<1.0	<5.0
TW-31	3-Dec-13	<1.0	<1.0	<1.0	<1.5	2.8	<2.0	<0.050	<1.0	<5.0
TW-31	10-Dec-14	<1.0	<1.0	<1.0	<1.5	5.8	<2.0	<0.050	<1.0	<5.0
TW-32	17-Dec-08	**Not Sampled-NAPL present**								
TW-32	21-Aug-09	**Not Sampled-NAPL present**								
TW-32	17-Feb-10	**Not Sampled-NAPL present**								
TW-32	7-May-10	**Not Sampled-NAPL present**								
TW-32	18-Aug-10	**Not Sampled-NAPL present**								
TW-32	15-Nov-10	**Not Sampled-NAPL present**								
TW-32	18-May-11	**Not Sampled-NAPL present**								

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-32	15-Nov-11	**Not Sampled-NAPL present**								
TW-33	17-Dec-08	**Not Sampled-NAPL present**								
TW-33	21-Aug-09	**Not Sampled-NAPL present**								
TW-33	17-Feb-10	**Not Sampled-NAPL present**								
TW-33	7-May-10	**Not Sampled-NAPL present**								
TW-33	18-Aug-10	**Not Sampled-NAPL present**								
TW-33	15-Nov-10	**Not Sampled-NAPL present**								
TW-33	18-May-11	**Not Sampled-NAPL present**								
TW-33	15-Nov-11	**Not Sampled-NAPL present**								
TW-34	18-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-34	24-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-34	18-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-34	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-34	22-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	18-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-35	24-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	18-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	17-Nov-10	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	22-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** ***µg/L***	***Toluene*** ***µg/L***	***Ethyl-benzene*** ***µg/L***	***Xylenes*** ***µg/L***	***MTBE*** ***µg/L***	***Naph-thalene*** ***µg/L***	***GRO C6-C10*** ***mg/L***	***DRO C10-C22*** ***mg/L***	***MRO*** ***mg/L***
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-36	18-Dec-08	<1.0	<1.0	16	22	<1.0	**91.9**	0.30	4.3	<5.0
TW-36	21-Aug-09	**Not Sampled-NAPL present**								
TW-36	17-Feb-10	**Not Sampled-NAPL present**								
TW-36	12-May-10	<1.0	<1.0	6.5	11	<1.0	<2.0	0.18	6.1	<5.0
TW-36	18-Aug-10	**Not Sampled-NAPL present**								
TW-36	15-Nov-10	**Not Sampled-NAPL present**								
TW-36	18-May-11	**Not Sampled-NAPL present**								
TW-36	15-Nov-11	**Not Sampled-NAPL present**								
TW-36	29-May-14	<1.0	<1.0	<1.0	<2.0	1.1	<2.0	NM	NM	NM
TW-37	17-Dec-08	**820**	<50	560	**1,800**	**180**	<500	8.4	19	<5.0
TW-37	21-Aug-09	**250**	<5.0	51	32	**180**	<10	1.7	1.2	<5.0
TW-37	18-Feb-10	**290**	<5.0	53	61	**130**	<10	2.0	1.4	<5.0
TW-37	11-May-10	**490**	<5.0	150	140	**150**	<10	3.8	4.3	<5.0
TW-37	19-Aug-10	**310**	<5.0	65	53	**140**	<10	3.2	22	9.6
TW-37	16-Nov-10	**280**	<1.0	58	46	**120**	<2.0	1.9	2.3	<5.0
TW-37	18-May-11	**420**	<5.0	21	<10	**230**	<10	NA	NA	NA
TW-37	22-Nov-11	**210**	<1.0	<1.0	5	**110**	<2.0	1.7	2	<5.0
TW-37	17-May-12	**290**	<1.0	110	98	79	2.9	NA	NA	NA
TW-37	27-Nov-12	**140**	<5.0	13	<10	**120**	<10	2.0	18	<5.0
TW-37	9-May-13	**250**	<1.0	80	2.9	83	<2.0	NA	NA	NA
TW-37	3-Dec-13	**130**	<5.0	41	11	95	<10	1.4	1.4	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-37	29-May-14	**210**	<1.0	110	70	63	3.3	NM	NM	NM
TW-37	10-Dec-14	**140**	<5.0	72	<7.5	68	<10	1.4	<1.0	<5.0
TW-38	17-Dec-08	**140**	<5.0	36	220	**190**	<50	0.99	<1.0	<5.0
TW-38	21-Aug-09	**Not Sampled-NAPL present**								
TW-38	18-Feb-10	**26**	<1.0	6.3	18	88	<2.0	0.50	<1.0	<5.0
TW-38	12-May-10	**63**	<1.0	15	50	**110**	3.5	0.67	<1.0	<5.0
TW-38	19-Aug-10	**140**	<1.0	30	58	95	2.2	1.20	<1.0	<5.0
TW-38	16-Nov-10	**140**	<1.0	41	71	83	<2.0	1.1	<1.0	<5.0
TW-38	18-May-11	**37**	<5.0	6.1	22	**140**	<10	NA	NA	NA
TW-38	15-Nov-11	**Not Sampled-NAPL present**								
TW-38	29-May-14	8.2	<1.0	5.1	77	60	6.2	NM	NM	NM
TW-39	17-Dec-08	**Not Sampled-NAPL present**								
TW-39	21-Aug-09	1.7	<1.0	2.8	<1.5	16	<2.0	0.47	<1.0	<5.0
TW-39	17-Feb-10	2.6	<1.0	2.5	3.5	9.8	<2.0	0.45	<1.0	<5.0
TW-39	12-May-10	**17**	<1.0	32	14	19	<2.0	0.45	<1.0	<5.0
TW-39	19-Aug-10	**87**	<1.0	77	100	1.5	2.9	1.2	<1.0	<5.0
TW-39	16-Nov-10	**92**	<1.0	110	1.8	5.9	<2.0	1.4	<1.0	<5.0
TW-39	19-May-11	**41**	<5.0	65	<10	<5.0	<10	NA	NA	NA
TW-39	17-Nov-11	9	<5.0	82	<10	<5.0	<10	1.4	<1.0	<5.0
TW-39	17-May-12	3.3	<1.0	1.1	<2.0	8.5	<2.0	NA	NA	NA
TW-39	27-Nov-12	<1.0	<1.0	<1.0	<2.0	11	<2.0	0.76	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-39	3-Dec-13	1.2	<1.0	<1.0	<1.5	7.1	<2.0	0.76	<1.0	<5.0
TW-39	29-May-14	<1.0	<1.0	<1.0	<2.0	8.2	<2.0	NM	NM	NM
TW-39	11-Dec-14	<1.0	<1.0	<1.0	<1.5	6.9	<2.0	0.35	<1.0	<5.0
TW-40	17-Dec-08	**Not Sampled-NAPL present**								
TW-40	21-Aug-09	**Not Sampled-NAPL present**								
TW-40	17-Feb-10	**Not Sampled-NAPL present**								
TW-40	7-May-10	**Not Sampled-NAPL present**								
TW-40	18-Aug-10	**Not Sampled-NAPL present**								
TW-40	15-Nov-10	**Not Sampled-NAPL present**								
TW-40	18-May-11	**Not Sampled-NAPL present**								
TW-40	15-Nov-11	**Not Sampled-NAPL present**								
TW-41	18-Dec-08	**480**	<50	570	**4,000**	<50	<500	8.4	2.0	<5.0
TW-41	24-Aug-09	**170**	6.6	400	**2,000**	24	**49**	7.0	1.1	<5.0
TW-41	18-Feb-10	**140**	<10	400	**2,500**	24	**49**	7.7	1.5	<5.0
TW-41	12-May-10	**180**	<10	530	**2,300**	20	**41**	6.9	<3.0	<15
TW-41	20-Aug-10	**190**	<10	420	**1,400**	24	**43**	8.2	<1.0	<5.0
TW-41	16-Nov-10	**96**	<10	480	**2,200**	17	**55**	6.6	1.4	<5.0
TW-41	18-May-11	**110**	8.5	500	**2,700**	22	**70**	NA	NA	NA
TW-41	22-Nov-11	**110**	<10	470	**1,800**	13	**68**	10	2.3	<5.0
TW-41	21-May-12	**99**	<10	530	**2,200**	16	**47**	NA	NA	NA
TW-41	27-Nov-12	**100**	<10	470	**1,800**	14	**48**	8.8	1.6	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-41	10-May-13	**47**	<5.0	410	**1,400**	12	**50**	NA	NA	NA
TW-41	3-Dec-13	**45**	<10	470	**1,600**	<10	**34**	8.1	4.3	<5.0
TW-41	29-May-14	**35**	<5.0	190	470	9.5	<10	NM	NM	NM
TW-41	11-Dec-14	**88**	<10	480	**1,600**	<10	**39**	9.0	2.4	<5.0
TW-42	16-Dec-08	<1.0	<1.0	31	<1.5	**130**	<10	0.18	1.2	<5.0
TW-42	24-Aug-09	<1.0	<1.0	<1.0	<1.5	70	<2.0	0.10	<1.0	<5.0
TW-42	18-Feb-10	<1.0	<1.0	<1.0	<2.0	75	<2.0	0.15	<1.0	<5.0
TW-42	12-May-10	<1.0	<1.0	<1.0	<2.0	39	<2.0	0.15	<1.0	<5.0
TW-42	20-Aug-10	<1.0	<1.0	<1.0	<2.0	57	<2.0	0.16	<1.0	<5.0
TW-42	16-Nov-10	<1.0	<1.0	<1.0	<1.5	53	<2.0	0.16	<1.0	<5.0
TW-42	18-May-11	<5.0	<5.0	<5.0	<10	**600**	<10	NA	NA	NA
TW-42	22-Nov-11	<1.0	<1.0	<1.0	<2.0	53	<2.0	0.17	<1.0	<5.0
TW-42	21-May-12	<1.0	<1.0	<1.0	<2.0	38	<2.0	NA	NA	NA
TW-42	28-Nov-12	<1.0	<1.0	<1.0	<2.0	13	<2.0	0.13	<1.0	<5.0
TW-42	10-May-13	<1.0	<1.0	<1.0	<2.0	7.9	<2.0	NA	NA	NA
TW-42	4-Dec-13	<1.0	<1.0	<1.0	<1.5	7.4	<2.0	<0.050	<1.0	<5.0
TW-42	29-May-14	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	NM	NM	NM
TW-42	11-Dec-14	<2.0	<2.0	<2.0	<3.0	7.3	<4.0	<0.050	<1.0	<5.0
TW-43	16-Dec-08	<1.0	<1.0	31	<1.5	**1,700**	<10	0.80	<1.0	<5.0
TW-43	24-Aug-09	<1.0	<1.0	<1.0	<1.5	**500**	<10	0.17	<1.0	<5.0
TW-43	18-Feb-10	<1.0	<1.0	<1.0	<2.0	**430**	<2.0	0.37	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-43	12-May-10	<1.0	<1.0	<1.0	<2.0	**380**	<2.0	0.31	<1.0	<5.0
TW-43	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**380**	<2.0	0.38	<1.0	<5.0
TW-43	16-Nov-10	<1.0	<1.0	<1.0	<1.5	**370**	<2.0	0.48	<1.0	<5.0
TW-43	22-Nov-11	<1.0	1.1	<1.0	<2.0	**460**	<2.0	0.41	<1.0	<5.0
TW-43	21-May-12	<1.0	<1.0	<1.0	<2.0	**450**	<2.0	NA	NA	NA
TW-43	28-Nov-12	<1.0	<1.0	<1.0	<2.0	**270**	<2.0	0.20	<1.0	<5.0
TW-43	13-May-13	<1.0	<1.0	<1.0	<2.0	**420**	<2.0	NA	NA	NA
TW-43	4-Dec-13	<1.0	<1.0	<1.0	<1.5	**410**	<2.0	0.29	<1.0	<5.0
TW-43	30-May-14	<1.0	<1.0	<1.0	<2.0	**310**	<2.0	NM	NM	NM
TW-43	11-Dec-14	<2.0	<2.0	<2.0	<3.0	**330**	<4.0	0.36	<1.0	<5.0
TW-44	17-Dec-08	**58**	<5.0	69	340	**330**	**245**	2.0	1.8	<5.0
TW-44	24-Aug-09	**56**	<1.0	6.9	7.3	**360**	<2.0	0.20	1.2	<5.0
TW-44	18-Feb-10	**Not Sampled-NAPL present**								
TW-44	7-May-10	**Not Sampled-NAPL present**								
TW-44	18-Aug-10	**Not Sampled-NAPL present**								
TW-44	15-Nov-10	**Not Sampled-NAPL present**								
TW-44	18-May-11	**Not Sampled-NAPL present**								
TW-44	15-Nov-11	**Not Sampled-NAPL present**								
TW-45	13-May-10	<1.0	<1.0	<1.0	<2.0	**160**	<2.0	0.20	<1.0	<5.0
TW-45	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**300**	<2.0	0.33	<1.0	<5.0
TW-45	17-Nov-10	<1.0	<1.0	<1.0	<1.5	**170**	<2.0	0.23	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-45	18-May-11	<5.0	<5.0	<5.0	<10	**630**	<10	NA	NA	NA
TW-45	21-May-12	<1.0	<1.0	<1.0	<2.0	**230**	<2.0	NA	NA	NA
TW-45	28-Nov-12	<1.0	<1.0	<1.0	<2.0	**280**	<2.0	0.17	<1.0	<5.0
TW-45	13-May-13	<1.0	<1.0	<1.0	<2.0	99	<2.0	NA	NA	NA
TW-45	4-Dec-13	<1.0	<1.0	<1.0	<1.5	97	<2.0	0.13	<1.0	<5.0
TW-45	30-May-14	<1.0	<1.0	<1.0	<2.0	**170**	<2.0	NM	NM	NM
TW-45	11-Dec-14	<1.0	<1.0	<1.0	<1.5	79	<2.0	0.13	<1.0	<5.0
TW-46	13-May-10	<1.0	<1.0	<1.0	<2.0	**110**	<2.0	0.14	<1.0	<5.0
TW-46	20-Aug-10	<1.0	<1.0	<1.0	<2.0	88	<2.0	0.13	<1.0	<5.0
TW-46	18-May-11	<5.0	<5.0	<5.0	<10	**160**	<10	NA	NA	NA
TW-46	22-Nov-11	<1.0	<1.0	<1.0	<2.0	35	<2.0	0.054	<1.0	<5.0
TW-46	21-May-12	<1.0	<1.0	<1.0	<2.0	74	<2.0	NA	NA	NA
TW-46	28-Nov-12	<1.0	<1.0	<1.0	<2.0	46	<2.0	<0.050	<1.0	<5.0
TW-46	4-Dec-13	<1.0	<1.0	<1.0	<1.5	7.6	<2.0	<0.050	<1.0	<5.0
TW-46	11-Dec-14	<1.0	<1.0	<1.0	<1.5	9.7	<2.0	<0.050	<1.0	<5.0
TW-47	13-May-10	<1.0	<1.0	<1.0	<2.0	9.4	<2.0	<0.050	<1.0	<5.0
TW-47	20-Aug-10	<1.0	<1.0	<1.0	<2.0	18	<2.0	<0.050	<1.0	<5.0
TW-47	17-Nov-10	<1.0	<1.0	<1.0	<1.5	8.2	<2.0	<0.050	<1.0	<5.0
TW-47	22-Nov-11	<1.0	<1.0	<1.0	<2.0	1.5	<2.0	<0.050	<1.0	<5.0
TW-47	28-Nov-12	<1.0	<1.0	<1.0	<2.0	28	<2.0	<0.050	<1.0	<5.0
TW-47	4-Dec-13	<1.0	<1.0	<1.0	<1.5	1.3	<2.0	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-47	11-Dec-14	<1.0	<1.0	<1.0	<1.5	21	<2.0	<0.050	<1.0	<5.0
TW-48	12-May-10	<1.0	<1.0	<1.0	<2.0	13	<2.0	0.061	<1.0	<5.0
TW-48	19-Aug-10	<1.0	<1.0	<1.0	<2.0	16	<2.0	0.067	<1.0	<5.0
TW-48	12-Dec-14	<2.0	<2.0	<2.0	<3.0	6.6	<4.0	<0.10	<1.0	<5.0
TW-49	17-May-10	<1.0	<1.0	<1.0	<2.0	17	<2.0	<0.050	<1.0	<5.0
TW-49	20-Aug-10	<1.0	<1.0	<1.0	<2.0	14	<2.0	<0.050	<1.0	<5.0
TW-49	17-Nov-10	<1.0	<1.0	<1.0	<1.5	28	<2.0	0.12	<1.0	<5.0
TW-49	21-May-12	<1.0	<1.0	<1.0	<2.0	14	<2.0	NA	NA	NA
TW-49	3-Dec-12	<10	<10	<10	<20	<10	<20	<0.50	<1.0	<5.0
TW-49	4-Dec-13	<10	<10	<10	<15	11	<20	<0.50	<1.0	<5.0
TW-49	12-Dec-14	<2.0	<2.0	<2.0	<3.0	8.2	<4.0	<0.10	<1.0	<5.0
TW-50	12-May-10	**72**	<10	260	**1,200**	16	**63**	7.7	4.0	<5.0
TW-50	19-Aug-10	**6.9**	<5.0	69	100	19	<10	2.4	<1.0	<5.0
TW-50	18-May-11	**13**	<5.0	150	190	<5.0	<10	NA	NA	NA
TW-50	17-Nov-11	<1.0	<1.0	14	10	18	<2.0	0.84	<1.0	<5.0
TW-50	21-May-12	2.9	<1.0	23	19	17	<2.0	NA	NA	NA
TW-50	4-Dec-12	<1.0	<1.0	2.3	3.1	19	<2.0	0.22	<1.0	<5.0
TW-51	18-Jul-12	<2.0	<2.0	4.4	<4.0	**260**	8.7	NA	NA	NA
TW-51	3-Dec-12	<1.0	<1.0	<1.0	<2.0	**340**	<2.0	0.29	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
TW-51	5-Dec-13	<1.0	<1.0	<1.0	<1.5	**300**	<2.0	0.31	<1.0	<5.0
TW-51	12-Dec-14	<2.0	<2.0	<2.0	<3.0	**190**	<4.0	0.38	<1.0	<5.0
TW-52	8-Oct-12	<1.0	<1.0	<1.0	<2.0	**180**	NA	NA	NA	NA
TW-52	3-Dec-12	<1.0	<1.0	<1.0	<2.0	**230**	<2.0	0.11	<1.0	<5.0
TW-52	13-May-13	<1.0	<1.0	<1.0	<2.0	**240**	<2.0	NA	NA	NA
TW-52	5-Dec-13	<1.0	<1.0	<1.0	<1.5	76	<2.0	0.075	<1.0	<5.0
TW-52	30-May-14	<1.0	<1.0	<1.0	<2.0	88	<2.0	NM	NM	NM
TW-52	12-Dec-14	<2.0	<2.0	<2.0	<3.0	86	<4.0	0.091	<1.0	<5.0
TW-53	22-Jan-13	<1.0	<1.0	<1.0	<2.0	16	<2.0	NA	NA	NA
TW-53	13-May-13	<1.0	<1.0	<1.0	<2.0	14	<2.0	NA	NA	NA
TW-53	5-Dec-13	<1.0	<1.0	<1.0	<1.5	12	<2.0	<0.050	<1.0	<5.0
TW-53	12-Dec-14	<1.0	<1.0	<1.0	<1.5	13	<2.0	<0.050	<1.0	<5.0
TW-54	22-Jan-13	<2.0	<2.0	<2.0	<4.0	19	<4.0	NA	NA	NA
TW-54	13-May-13	<1.0	<1.0	<1.0	<2.0	22	<2.0	NA	NA	NA
TW-54	6-Dec-13	<1.0	<1.0	<1.0	<1.5	21	<2.0	<0.050	<1.0	<5.0
TW-54	30-May-14	<1.0	<1.0	<1.0	<2.0	20	<2.0	NM	NM	NM
TW-54	12-Dec-14	<1.0	<1.0	<1.0	<1.5	18	<2.0	<0.050	<1.0	<5.0
MW-5	19-Dec-08	<1.0	<1.0	<1.0	<1.5	46	<10	0.066	<1.0	<5.0
MW-5	18-Feb-10	<1.0	<1.0	<1.0	<2.0	49	<2.0	0.12	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
MW-5	12-May-10	<1.0	<1.0	<1.0	<2.0	63	<2.0	0.10	<1.0	<5.0
MW-5	17-Nov-10	<1.0	<1.0	<1.0	<1.5	54	<2.0	0.11	<1.0	<5.0
MW-7	17-May-10	**17**	<1.0	<1.0	<2.0	23	<2.0	0.14	<1.0	<5.0
MW-7	19-Aug-10	6.9	<1.0	<1.0	<2.0	74	<2.0	0.22	<1.0	<5.0
MW-7	4-Dec-12	<1.0	<1.0	<1.0	<2.0	**120**	<2.0	0.18	<1.0	<5.0
MW-7	13-May-13	<1.0	<1.0	<1.0	<2.0	**110**	<2.0	NA	NA	NA
MW-7	6-Dec-13	1.1	<1.0	<1.0	<1.5	10	<2.0	<0.050	<1.0	<5.0
MW-7	30-May-14	2.9	<1.0	<1.0	<2.0	23	<2.0	NM	NM	NM
MW-7	12-Dec-14	<1.0	<1.0	<1.0	<1.5	59	<2.0	0.065	<1.0	<5.0
MW-20	21-Jan-09	<1.0	<1.0	<1.0	<1.5	**170**	<10	0.47	1.8	<5.0
MW-20	18-Feb-10	2.5	<1.0	<1.0	<2.0	**190**	<2.0	0.32	<1.0	<5.0
MW-20	13-May-10	1.7	<1.0	<1.0	<2.0	**180**	<2.0	0.60	<1.0	<5.0
MW-20	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**200**	<2.0	0.50	<1.0	<5.0
MW-20	17-Nov-10	1.6	<1.0	<1.0	<1.5	**160**	<2.0	1.0	<1.0	<5.0
MW-20	18-May-11	<5.0	<5.0	<5.0	<1.5	<10	<10	NA	NA	NA
MW-20	22-Nov-11	<1.0	<1.0	<1.0	<2.0	**170**	<2.0	0.97	<1.0	<5.0
MW-20	21-May-12	<1.0	<1.0	<1.0	<2.0	**150**	<2.0	NA	NA	NA
MW-20	3-Dec-12	<1.0	<1.0	<1.0	<2.0	**190**	<2.0	0.48	<1.0	<5.0
MW-20	13-May-13	<1.0	<1.0	<1.0	<2.0	**120**	<2.0	NA	NA	NA
MW-20	6-Dec-13	<1.0	<1.0	<1.0	<1.5	**190**	<2.0	1.1	<1.0	<5.0
MW-20	30-May-14	<1.0	<1.0	<1.0	<2.0	**160**	<2.0	NM	NM	NM

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Date Sampled***	***Benzene*** µg/L	***Toluene*** µg/L	***Ethyl-benzene*** µg/L	***Xylenes*** µg/L	***MTBE*** µg/L	***Naph-thalene*** µg/L	***GRO C6-C10*** mg/L	***DRO C10-C22*** mg/L	***MRO*** mg/L
Sample Method		***EPA Method 8260***						***EPA Method 8015D***		
NM WQCC STANDARD		***10***	***750***	***750***	***620***	***100***	***30***	***NE***	***NE***	***NE***
MW-20	11-Dec-14	<1.0	<1.0	<1.0	<1.5	70	<2.0	0.74	<1.0	<5.0
MW-21	19-Dec-08	<1.0	<1.0	<1.0	<1.5	**100**	<10	0.11	<1.0	<5.0
MW-21	18-Feb-10	<1.0	<1.0	<1.0	<2.0	85	<2.0	0.11	<1.0	<5.0
MW-21	13-May-10	<1.0	<1.0	<1.0	<2.0	82	<2.0	0.10	<1.0	<5.0
MW-21	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**120**	<2.0	0.12	<1.0	<5.0
MW-21	17-Nov-10	<1.0	<1.0	<1.0	<1.5	83	<2.0	0.12	<1.0	<5.0
MW-21	18-May-11	<5.0	<5.0	<5.0	<1.5	**160**	<10	NA	NA	NA
MW-21	22-Nov-11	<1.0	<1.0	<1.0	<2.0	74	<2.0	0.11	<1.0	<5.0
MW-21	21-May-12	<1.0	<1.0	<1.0	<2.0	91	<2.0	NA	NA	NA
MW-21	3-Dec-12	<1.0	<1.0	<1.0	<2.0	94	<2.0	0.068	<1.0	<5.0
MW-21	13-May-13	<1.0	<1.0	<1.0	<2.0	85	<2.0	NA	NA	NA
MW-21	6-Dec-13	<1.0	<1.0	<1.0	<1.5	78	<2.0	0.082	<1.0	<5.0
MW-21	30-May-14	<1.0	<1.0	<1.0	<2.0	83	<2.0	NM	NM	NM
MW-21	11-Dec-14	<1.0	<1.0	<1.0	<1.5	66	<2.0	0.070	<1.0	<5.0

Notes:

*	**Sample analyzed per EPA Method 8021 instead of EPA Method 8260**
<	**Analyte not detected above listed method limit**
NA	**Not analyzed**
NE	**Not established**
ug/L	**Micrograms per liter (ppb)**
mg/L	**Milligrams per liter (ppm)**
GRO	**Gasoline range organics**
DRO	**Diesel range organics**

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs and TOTAL PETROLEUM HYDROCARBONS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date Sampled*	*Benzene µg/L*	*Toluene µg/L*	*Ethyl-benzene µg/L*	*Xylenes µg/L*	*MTBE µg/L*	*Naph-thalene µg/L*	*GRO C6-C10 mg/L*	*DRO C10-C22 mg/L*	*MRO mg/L*
Sample Method		*EPA Method 8260*						*EPA Method 8015D*		
NM WQCC STANDARD		*10*	*750*	*750*	*620*	*100*	*30*	*NE*	*NE*	*NE*

MRO **Motor oil range organics**

TABLE 3
SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Sample Date*	*Calcium*	*Magnesium*	*Potassium*	*Sodium*	*Bromide*	*Chloride*	*Fluoride*	*Sulfate*	*Specific Conductance*	*Hardness as ($CaCO_3$)*	*Total Dissolved Solids*
		mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*µmhos/cm*	*mg/L*	*mg/L*
Analytical Method		*6010B*	*6010B*	*6010B*	*6010B*	*300.0*	*300.0*	*300.0*	*300.0*	*120.1*	*6010B*	*SM 2540C*
NM WQCC Standard		*NE*	*NE*	*NE*	*NE*	*NE*	*250*	*1.6*	*600*	*NE*	*NE*	*1,000*
TW-1	19-Aug-09	500	37	2.8	300	0.12	18	0.82	**1,700**	2,900	1,400	**2,530**
TW-2	19-Aug-09	470	46	3.7	660	0.27	24	1.0	**2,600**	4,100	1,400	**4,020**
TW-3	19-Aug-09	500	45	2.7	710	0.28	26	0.80	**2,600**	4,200	1,400	**4,170**
TW-4	19-Aug-09	470	54	4.2	1,600	0.79	120	0.78	**4,100**	6,500	1,400	**6,530**
TW-5	19-Aug-09	510	36	3.1	400	0.23	20	0.86	**2,000**	3,300	1,400	**3,180**
TW-6	19-Aug-09	480	47	3.4	720	0.28	28	1.1	**2,700**	4,200	1,400	**4,020**
TW-7	19-Aug-09	480	46	2.3	750	0.28	24	0.78	**2,700**	4,200	1,400	**3,930**
TW-7	18-May-11	NA	NA	NA	NA	NA	28	NA	**2,800**	NA	NA	**4,330**
TW-7	17-Nov-11	490	53	2.3	770	<0.50	40	0.51	**2,800**	4,300	1,400	**4,230**
TW-7	9-May-13	NA	NA	NA	NA	NA	77	NA	**2,700**	NA	NA	**4,570**
TW-8	20-Aug-09	450	57	3.6	910	1.3	190	0.67	**2,600**	4,700	1,400	**4,490**
TW-8	18-May-11	NA	NA	NA	NA	NA	160	NA	**2,400**	NA	NA	**4,140**
TW-8	26-Nov-12	470	49	5.1	840	1.3	160	0.74	**2,600**	5,000	1,400	**4,340**
TW-8	9-May-13	NA	NA	NA	NA	NA	150	NA	**2,100**	NA	NA	**3,730**
TW-8	3-Dec-13	470	48	5.2	800	0.80	130	0.58	**2,300**	4,500	1,400	**4,030**
TW-8	29-May-14	NA	NA	NA	NA	NA	140	NA	**2,200**	NA	NA	**3,660**
TW-8	10-Dec-14	480	44	4.5	600	0.82	120	0.56	**2,200**	3,500	1,400	**3,820**
TW-9	20-Aug-09	250	21	2.4	410	1.2	170	0.87	530	2,600	710	**2,070**
TW-10	20-Aug-09	420	36	3.6	640	1.1	160	0.72	**940**	3,700	1,200	**3,250**

TABLE 3
SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	***Sample Date***	***Calcium***	***Magnesium***	***Potassium***	***Sodium***	***Bromide***	***Chloride***	***Fluoride***	***Sulfate***	***Specific Conductance***	***Hardness as ($CaCO_3$)***	***Total Dissolved Solids***
		mg/L	***mg/L***	***mg/L***	***mg/L***	***mg/L***	***mg/L***	***mg/L***	***mg/L***	***µmhos/cm***	***mg/L***	***mg/L***
Analytical Method		***6010B***	***6010B***	***6010B***	***6010B***	***300.0***	***300.0***	***300.0***	***300.0***	***120.1***	***6010B***	***SM 2540C***
NM WQCC Standard		***NE***	***NE***	***NE***	***NE***	***NE***	***250***	***1.6***	***600***	***NE***	***NE***	***1,000***
TW-11	20-Aug-09	470	53	3.6	1,500	0.46	70	0.85	**4,000**	6,100	1,400	**6,290**

TABLE 3
SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Sample Date*	*Calcium*	*Magnesium*	*Potassium*	*Sodium*	*Bromide*	*Chloride*	*Fluoride*	*Sulfate*	*Specific Conductance*	*Hardness as ($CaCO_3$)*	*Total Dissolved Solids*
		mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*µmhos/cm*	*mg/L*	*mg/L*
Analytical Method		*6010B*	*6010B*	*6010B*	*6010B*	*300.0*	*300.0*	*300.0*	*300.0*	*120.1*	*6010B*	*SM 2540C*
NM WQCC Standard		*NE*	*NE*	*NE*	*NE*	*NE*	*250*	*1.6*	*600*	*NE*	*NE*	*1,000*
TW-12	20-Aug-09	470	56	2.5	500	0.28	27	0.85	**2,100**	3,500	1,400	**3,490**
TW-15	20-Aug-09	460	47	2.6	1,200	0.99	140	0.74	**3,100**	5,300	1,300	**5,240**
TW-15	9-May-13	NA	NA	NA	NA	NA	140	NA	**3,000**	NA	NA	**4,840**
TW-15	29-May-14	NA	NA	NA	NA	NA	170	NA	**3,000**	NA	NA	**4,420**
TW-16	20-Aug-09	360	32	8.5	1,100	1.1	150	0.75	**2,600**	4,800	1,000	**4,240**
TW-17	21-Aug-09	350	43	4.2	1,200	1.2	170	0.80	**3,100**	4,700	1,100	**4,640**
TW-18	21-Aug-09	500	54	3.6	830	0.43	52	0.77	**2,800**	4,300	1,500	**4,440**
TW-18	16-Nov-10	490	52	4.6	910	0.28	54	1	**3,700**	5,000	1,400	**4,790**
TW-18	17-Nov-11	480	49	4.1	1,100	0.26	66	0.73	**4,700**	5,400	1,400	**5,360**
TW-22	29-May-14	NA	NA	NA	NA	NA	31	NA	**2,000**	NA	NA	**3,430**
TW-23	21-Aug-09	470	49	3.5	1,400	1.1	150	1.1	**3,600**	5,500	1,400	**5,440**
TW-30	21-Aug-09	700	57	5.9	1,100	3.7	**860**	0.56	**2,000**	5,000	2,000	**4,550**
TW-30	16-Nov-10	550	60	8.8	1,200	1.9	**1,400**	0.54	**2,100**	6,500	1,600	**5,630**
TW-30	17-Nov-11	670	61	9.3	1,500	3.1	**1,400**	<1.0	**1,900**	7,300	1,900	**6,310**
TW-30	27-Nov-12	470	52	8.9	1,300	5.9	**970**	0.61	**2,400**	7,100	1,400	**5,440**
TW-30	3-Dec-13	480	55	7.0	1,000	<0.50	**660**	<0.50	**1,900**	6,100	1,400	**4,750**
TW-30	10-Dec-14	440	49	4.8	880	0.62	**300**	0.60	**2,300**	4,400	1,300	**4,090**
TW-31	21-Aug-09	460	68	4.9	1,300	3.9	**1,700**	0.43	**1,200**	5,800	1,400	**4,790**
TW-31	16-Nov-10	520	66	6.9	940	0.65	**750**	0.67	**2,000**	5,500	1,600	**4,680**

TABLE 3
SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specific Conductance	Hardness as ($CaCO_3$)	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
TW-34	24-Aug-09	450	76	4.7	1,200	0.36	59	1.0	**3,500**	5,100	1,400	**5,460**
TW-34	22-Nov-11	480	79	4.8	1,100	<2.0	59	<2.0	**4,100**	5,500	1,500	**5,420**
TW-35	24-Aug-09	440	88	8.3	1,600	0.40	65	0.74	**4,400**	6,100	1,500	**6,700**
TW-35	17-Nov-10	480	84	8.6	1,600	0.26	70	0.81	**4,700**	6,600	1,600	**6,770**
TW-35	22-Nov-11	460	90	8.2	1,700	0.72	81	0.74	**4,600**	6,700	1,500	**7,180**
TW-36	29-May-14	NA	NA	NA	NA	NA	40	NA	**3,500**	NA	NA	**5,610**
TW-37	21-Aug-09	380	46	3.7	870	3.5	**330**	0.59	**1,700**	4,200	1,100	**3,740**
TW-37	16-Nov-10	340	45	3.5	760	0.49	**310**	0.51	**1,500**	4,200	1,000	**3,380**
TW-37	18-May-11	NA	NA	NA	NA	NA	**260**	NA	**1,700**	NA	NA	**3,680**
TW-37	27-Nov-12	NA	NA	NA	NA	NA	190	NA	**1,700**	NA	NA	NA
TW-37	9-May-13	NA	NA	NA	NA	NA	150	NA	**1,800**	NA	NA	**3,710**
TW-37	3-Dec-13	NA	NA	NA	NA	NA	150	NA	**1,400**	NA	NA	NA
TW-37	29-May-14	NA	NA	NA	NA	NA	180	NA	**1,000**	NA	NA	**2,910**
TW-37	10-Dec-14	380	44	3.0	740	NA	110	NA	**1,900**	NA	1,100	**3,710**
TW-38	16-Nov-10	490	45	3.5	700	0.38	210	0.77	**1,900**	4,400	1,400	**3,930**
TW-38	18-May-11	NA	NA	NA	NA	NA	190	NA	**2,200**	NA	NA	**4,010**
TW-38	29-May-14	NA	NA	NA	NA	NA	91	NA	**2,100**	NA	NA	**3,840**
TW-39	21-Aug-09	600	54	7.1	1,100	2.3	**1,300**	0.44	**990**	5,200	1,700	**4,460**
TW-39	16-Nov-10	370	43	4.9	660	0.47	**540**	0.42	**1,000**	4,100	1,100	**3,070**
TW-39	18-May-11	NA	NA	NA	NA	NA	**550**	NA	**1,600**	NA	NA	**3,980**
TW-39	29-May-14	NA	NA	NA	NA	NA	**340**	NA	**1,000**	NA	NA	**3,220**

TABLE 3
SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Sample Date*	*Calcium*	*Magnesium*	*Potassium*	*Sodium*	*Bromide*	*Chloride*	*Fluoride*	*Sulfate*	*Specific Conductance*	*Hardness as ($CaCO_3$)*	*Total Dissolved Solids*
		mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*µmhos/cm*	*mg/L*	*mg/L*
Analytical Method		***6010B***	***6010B***	***6010B***	***6010B***	***300.0***	***300.0***	***300.0***	***300.0***	***120.1***	***6010B***	***SM 2540C***
NM WQCC Standard		***NE***	***NE***	***NE***	***NE***	***NE***	***250***	***1.6***	***600***	***NE***	***NE***	***1,000***
TW-41	24-Aug-19	330	57	6.5	1,000	1.7	**970**	<0.50	500	4,600	1,100	**3,510**
TW-41	16-Nov-10	300	58	5.8	910	1.0	**1,100**	0.23	**610**	5,200	980	**3,670**
TW-41	18-May-11	NA	NA	NA	NA	NA	**910**	NA	**980**	NA	NA	**3,940**
TW-41	22-Nov-11	230	50	4.8	860	0.5	**640**	0.5	510	4,300	890	**3,300**
TW-41	27-Nov-12	270	57	5.8	870	<5.0	**640**	<1.0	**810**	4,900	920	**3,400**
TW-41	10-May-13	NA	NA	NA	NA	NA	**610**	NA	**1,200**	NA	NA	**4,220**
TW-41	3-Dec-13	380	68	6.2	620	0.74	**780**	<0.50	**1,200**	5,700	1,200	**4,350**
TW-41	29-May-14	NA	NA	NA	NA	NA	**720**	NA	**2,000**	NA	NA	**4,920**
TW-41	11-Dec-14	260	47	5.3	860	0.66	**590**	<0.50	**770**	4,300	840	**3,180**
TW-42	24-Aug-09	250	75	6.3	1,200	3.8	**690**	0.43	**1,400**	5,000	940	**4,260**
TW-42	16-Nov-10	370	110	6.8	1,200	0.86	**840**	0.47	**2,300**	5,900	1,400	**5,040**
TW-42	10-May-13	NA	NA	NA	NA	NA	150	NA	**2,300**	NA	NA	**4,020**
TW-42	29-May-14	NA	NA	NA	NA	NA	53	NA	**2,300**	NA	NA	**3,620**
TW-43	24-Aug-09	570	55	5.0	930	0.6	140	0.74	**2,500**	4,500	1,600	**4,610**
TW-43	16-Nov-10	540	53	4.8	820	0.44	150	0.98	**2,800**	4,800	1,600	**4,450**
TW-43	18-May-11	NA	NA	NA	NA	NA	95	NA	**2,700**	NA	NA	**4,720**
TW-43	13-May-13	NA	NA	NA	NA	NA	92	NA	**2,500**	NA	NA	**4,420**
TW-43	30-May-14	NA	NA	NA	NA	NA	95	NA	**2,500**	NA	NA	**4,230**
TW-44	24-Aug-09	610	56	8.1	1,100	3.7	81	0.38	**2,800**	5,100	1,800	**5,520**
TW-45	17-Nov-10	550	53	3.9	860	0.47	**320**	0.78	**2,600**	5,000	1,600	**4,530**
TW-45	18-May-11	NA	NA	NA	NA	NA	**280**	NA	**2,600**	NA	NA	**4,700**
TW-45	13-May-13	NA	NA	NA	NA	NA	**200**	NA	**2,100**	NA	NA	**4,120**
TW-45	30-May-14	NA	NA	NA	NA	NA	190	NA	**2,600**	NA	NA	**4,560**

TABLE 3
SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specific Conductance	Hardness as ($CaCO_3$)	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
TW-46	18-May-11	NA	NA	NA	NA	NA	**400**	NA	**1,400**	NA	NA	**3,640**
TW-47	17-Nov-10	490	120	8.6	2,300	0.93	**1,200**	0.57	**5,300**	8,800	1,700	**8,800**
TW-47	22-Nov-11	510	120	8.2	2,700	1.2	**1,800**	<1.0	**5,800**	19,000	2,000	**10,700**
TW-47	28-Nov-12	NA	NA	NA	NA	NA	**1,100**	NA	**4,200**	NA	NA	NA
TW-47	4-Dec-13	NA	NA	NA	NA	NA	**1,100**	NA	**3,700**	NA	NA	**7,790**
TW-47	11-Dec-14	NA	NA	NA	NA	NA	**1,500**	NA	**5,000**	NA	NA	**8,630**
TW-49	17-Nov-10	630	92	14.0	1,700	2.1	**3,400**	0.51	**7,000**	8,000	1,900	**7,470**
TW-49	4-Dec-13	NA	NA	NA	NA	NA	**880**	NA	**3,100**	NA	NA	NA
TW-50	18-May-11	NA	NA	NA	NA	NA	**1100**	NA	**970**	NA	NA	**4,150**
TW-50	17-Nov-11	480	55	5.7	900	0.64	**990**	<0.50	**1,100**	5,300	1,400	**4,160**
TW-51	3-Dec-12	NA	NA	NA	NA	NA	**260**	NA	**2,400**	NA	NA	NA
TW-51	5-Dec-13	NA	NA	NA	NA	NA	**240**	NA	**2,700**	NA	NA	NA
TW-51	12-Dec-14	NA	NA	NA	NA	NA	**290**	NA	**2,900**	NA	NA	**4,950**
TW-52	3-Dec-12	440	73	6.1	1,400	1.9	210	0.63	**3,200**	6,700	1,400	**5,180**
TW-52	13-May-13	NA	NA	NA	NA	NA	170	NA	**3,800**	NA	NA	**6,160**
TW-52	30-May-14	NA	NA	NA	NA	NA	**270**	NA	**4,200**	NA	NA	**7,560**
TW-52	12-Dec-14	NA	NA	NA	NA	NA	**270**	NA	**4,300**	NA	NA	**6,670**
TW-53	22-Jan-13	NA	NA	NA	NA	NA	200	NA	**3,300**	NA	NA	**5,730**
TW-53	13-May-13	NA	NA	NA	NA	NA	200	NA	**3,400**	NA	NA	**5,660**
TW-53	5-Dec-13	320	68	5.7	1,600	0.81	210	0.27	**3,700**	7,400	1,100	**6,200**
TW-53	12-Dec-14	420	81	6.2	1,700	1.0	**320**	<0.50	**4,100**	7,200	1,400	**6,140**

TABLE 3
SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Sample Date*	*Calcium*	*Magnesium*	*Potassium*	*Sodium*	*Bromide*	*Chloride*	*Fluoride*	*Sulfate*	*Specific Conductance*	*Hardness as ($CaCO_3$)*	*Total Dissolved Solids*
		mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*µmhos/cm*	*mg/L*	*mg/L*
Analytical Method		*6010B*	*6010B*	*6010B*	*6010B*	*300.0*	*300.0*	*300.0*	*300.0*	*120.1*	*6010B*	*SM 2540C*
NM WQCC Standard		*NE*	*NE*	*NE*	*NE*	*NE*	*250*	*1.6*	*600*	*NE*	*NE*	*1,000*
TW-54	22-Jan-13	NA	NA	NA	NA	NA	130	NA	**2,600**	NA	NA	**4,500**
TW-54	13-May-13	NA	NA	NA	NA	NA	110	NA	**2,600**	NA	NA	**4,400**
TW-54	6-Dec-13	320	32	7.1	1,100	0.30	150	0.26	**2,500**	5,600	930	**4,520**
TW-54	30-May-14	NA	NA	NA	NA	NA	130	NA	**2,700**	NA	NA	**4,470**
TW-54	12-Dec-14	340	33	7.1	1100	<0.50	140	<0.50	**3,000**	5,100	990	**4,320**
MW-5	17-Nov-10	150	29	6.1	1,200	0.77	**310**	<2.0	**3,000**	5,400	500	**4,630**
MW-7	13-May-13	NA	NA	NA	NA	NA	**510**	NA	**1,600**	NA	NA	**4,020**
MW-7	30-May-14	NA	NA	NA	NA	NA	**590**	NA	**1,900**	NA	NA	**4,370**
MW-20	17-Nov-10	410	47	4.1	840	0.72	**430**	<0.50	**2,000**	4,700	1,200	**3,950**
MW-20	18-May-11	NA	NA	NA	NA	NA	**380**	NA	**1,900**	NA	NA	**4,260**
MW-20	3-Dec-12	NA	NA	NA	NA	NA	**390**	NA	**1,700**	NA	NA	NA
MW-20	13-May-13	NA	NA	NA	NA	NA	**290**	NA	**1,300**	NA	NA	**3,750**
MW-20	6-Dec-13	NA	NA	NA	NA	NA	**520**	NA	**2,100**	NA	NA	NA
MW-20	30-May-14	NA	NA	NA	NA	NA	**430**	NA	**2,200**	NA	NA	**4,680**
MW-20	11-Dec-14	NA	NA	NA	NA	NA	**440**	NA	**2,400**	NA	NA	**4,990**
MW-21	17-Nov-10	460	64	7.4	1,400	0.87	**820**	NA	**3,500**	NA	NA	NA
MW-21	18-May-11	NA	NA	NA	NA	NA	**750**	NA	**2,700**	NA	NA	NA
MW-21	3-Dec-12	NA	NA	NA	NA	NA	**630**	NA	**1,600**	NA	NA	NA
MW-21	13-May-13	NA	NA	NA	NA	NA	**600**	NA	**1,500**	NA	NA	**4,060**
MW-21	6-Dec-13	NA	NA	NA	NA	NA	**610**	NA	**1,400**	NA	NA	NA
MW-21	30-May-14	NA	NA	NA	NA	NA	**650**	NA	**1,400**	NA	NA	**3,960**
MW-21	11-Dec-14	NA	NA	NA	NA	NA	**810**	NA	**1,800**	NA	NA	**4,130**

Notes: **<** **Analyte not detected above listed method limit**

TABLE 3

SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specific Conductance	Hardness as ($CaCO_3$)	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000

NA Not Analyzed
NE Not established
mg/L Milligrams per liter (ppm)
µmhos/cm Micromhos per centimeter

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
Phase 1 Wells					
MPE-1	03-Mar-10			23.63	
MPE-1	10-May-10	TBD		23.46	
MPE-1	17-Aug-10	TBD		23.65	
MPE-1	11-Nov-10	TBD		23.82	
MPE-1	25-Feb-11	TBD		23.63	
MPE-1	20-May-11	TBD		23.63	
MPE-1	25-Aug-11	TBD		24.01	
MPE-1	10-Nov-11	TBD		24.04	
MPE-1	29-Feb-12	TBD		23.87	
MPE-1	25-May-12	TBD		23.78	
MPE-1	13-Aug-12	TBD		24.15	
MPE-1	19-Nov-12	TBD		24.24	
MPE-1	13-Feb-13	TBD		24.06	
MPE-1	14-May-13	TBD		23.92	
MPE-1	14-Aug-13	TBD		24.34	
MPE-1	27-Dec-13	TBD		24.19	
MPE-1	21-Feb-14	TBD		24.07	
MPE-1	03-Jun-14	TBD		23.08	
MPE-1	26-Aug-14	TBD		24.46	
MPE-1	08-Dec-14	TBD		24.40	
MPE-2	03-Mar-10	TBD	21.51	21.54	0.03
MPE-2	18-May-10	TBD		21.29	
MPE-2	17-Aug-10	TBD	21.61	21.62	0.01
MPE-2	11-Nov-10	TBD	21.69	21.78	0.09
MPE-2	25-Feb-11	TBD		21.61	
MPE-2	20-May-11	TBD		21.46	
MPE-2	25-Aug-11	TBD		21.91	
MPE-2	10-Nov-11	TBD	21.94	22.03	0.09
MPE-2	29-Feb-12	TBD	21.77	21.86	0.09
MPE-2	25-May-12	TBD	21.65	21.82	0.17
MPE-2	13-Aug-12	TBD	22.00	22.31	0.31
MPE-2	19-Nov-12	TBD	22.09	22.35	0.26
MPE-2	13-Feb-13	TBD	21.90	22.15	0.25
MPE-2	14-May-13	TBD	21.78	22.00	0.22
MPE-2	14-Aug-13	TBD	22.17	22.53	0.36
MPE-2	27-Dec-13	TBD	22.03	22.34	0.31
MPE-2	21-Feb-14	TBD	21.92	22.11	0.19

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-2	03-Jun-14	TBD	21.84	21.98	0.14
MPE-2	26-Aug-14	TBD	22.30	22.62	0.32
MPE-2	08-Dec-14	TBD	22.24	22.52	0.28
MPE-3	03-Mar-10	TBD		20.79	
MPE-3	10-May-10	TBD		20.63	
MPE-3	17-Aug-10	TBD		20.83	
MPE-3	11-Nov-10	TBD		21.01	
MPE-3	25-Feb-11	TBD		20.89	
MPE-3	20-May-11	TBD		20.81	
MPE-3	25-Aug-11	TBD		21.22	
MPE-3	10-Nov-11	TBD		21.23	
MPE-3	29-Feb-12	TBD		21.03	
MPE-3	25-May-12	TBD		20.97	
MPE-3	13-Aug-12	TBD		21.34	
MPE-3	19-Nov-12	TBD		21.43	
MPE-3	13-Feb-13	TBD		21.22	
MPE-3	14-May-13	TBD		21.10	
MPE-3	14-Aug-13	TBD		21.52	
MPE-3	27-Dec-13	TBD		21.36	
MPE-3	21-Feb-14	TBD		21.23	
MPE-3	03-Jun-14	TBD		21.17	
MPE-3	26-Aug-14	TBD		21.65	
MPE-3	08-Dec-14	TBD		21.59	
MPE-4	03-Mar-10	TBD		19.95	
MPE-4	10-May-10	TBD		19.80	
MPE-4	17-Aug-10	TBD		20.01	
MPE-4	11-Nov-10	TBD		20.20	
MPE-4	25-Feb-11	TBD		20.07	
MPE-4	20-May-11	TBD		19.97	
MPE-4	25-Aug-11	TBD		20.47	
MPE-4	10-Nov-11	TBD		20.43	
MPE-4	29-Feb-12	TBD		20.27	
MPE-4	25-May-12	TBD		20.14	
MPE-4	13-Aug-12	TBD		20.53	
MPE-4	19-Nov-12	TBD		20.61	
MPE-4	13-Feb-13	TBD		20.40	
MPE-4	14-May-13	TBD		20.28	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-4	14-Aug-13	TBD		20.71	
MPE-4	27-Dec-13	TBD		20.54	
MPE-4	21-Feb-14	TBD		20.41	
MPE-4	03-Jun-14	TBD		20.35	
MPE-4	26-Aug-14	TBD		20.84	
MPE-4	08-Dec-14	TBD		20.76	
MPE-5	03-Mar-10	TBD	19.30	19.41	0.11
MPE-5	18-May-10	TBD		19.00	
MPE-5	17-Aug-10	TBD	19.32	19.50	0.18
MPE-5	11-Nov-10	TBD	19.54	19.69	0.15
MPE-5	25-Feb-11	TBD	19.42	19.45	0.03
MPE-5	20-May-11	TBD	19.33	19.34	0.01
MPE-5	25-Aug-11	TBD	19.72	19.92	0.20
MPE-5	10-Nov-11	TBD	19.74	19.92	0.18
MPE-5	29-Feb-12	TBD	19.59	19.64	0.05
MPE-5	25-May-12	TBD	19.47	19.63	0.16
MPE-5	13-Aug-12	TBD	19.79	20.20	0.41
MPE-5	19-Nov-12	TBD	19.84	20.45	0.61
MPE-5	13-Feb-13	TBD	19.69	20.01	0.32
MPE-5	14-May-13	TBD	19.59	19.81	0.22
MPE-5	14-Aug-13	TBD	19.92	20.63	0.71
MPE-5	27-Dec-13	TBD	19.80	20.23	0.43
MPE-5	21-Feb-14	TBD	19.71	19.95	0.24
MPE-5	03-Jun-14	TBD	19.65	19.84	0.19
MPE-5	26-Aug-14	TBD	20.03	20.82	0.79
MPE-5	08-Dec-14	TBD	19.98	20.62	0.64
MPE-6	03-Mar-10	TBD		19.66	
MPE-6	10-May-10	TBD		NM	
MPE-6	17-Aug-10	TBD		19.70	
MPE-6	11-Nov-10	TBD		19.91	
MPE-6	01-Mar-11	TBD		19.69	
MPE-6	20-May-11	TBD		19.64	
MPE-6	25-Aug-11	TBD		20.07	
MPE-6	10-Nov-11	TBD	20.09	20.10	0.01
MPE-6	29-Feb-12	TBD		19.87	
MPE-6	25-May-12	TBD	19.83	19.84	0.01
MPE-6	13-Aug-12	TBD	20.20	20.22	0.02

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-6	19-Nov-12	TBD	20.28	20.30	0.02
MPE-6	13-Feb-13	TBD	20.08	20.11	0.03
MPE-6	14-May-13	TBD	19.94	20.08	0.14
MPE-6	14-Aug-13	TBD	20.34	20.60	0.26
MPE-6	27-Dec-13	TBD	20.18	20.42	0.24
MPE-6	21-Feb-14	TBD	20.07	20.23	0.16
MPE-6	03-Jun-14	TBD	20.00	20.11	0.11
MPE-6	26-Aug-14	TBD	20.44	20.80	0.36
MPE-6	08-Dec-14	TBD	20.37	20.76	0.39
MPE-7	03-Mar-10	TBD		20.46	
MPE-7	10-May-10	TBD		NM	
MPE-7	17-Aug-10	TBD		20.49	
MPE-7	11-Nov-10	TBD		20.68	
MPE-7	01-Mar-11	TBD		20.54	
MPE-7	20-May-11	TBD		20.49	
MPE-7	25-Aug-11	TBD		20.88	
MPE-7	10-Nov-11	TBD		20.89	
MPE-7	29-Feb-12	TBD		20.73	
MPE-7	21-May-12	TBD		20.66	
MPE-7	13-Aug-12	TBD		20.99	
MPE-7	19-Nov-12	TBD		21.08	
MPE-7	13-Feb-13	TBD		20.89	
MPE-7	14-May-13	TBD		20.76	
MPE-7	14-Aug-13	TBD	21.18	21.20	0.02
MPE-7	27-Dec-13	TBD	21.02	21.04	0.02
MPE-7	21-Feb-14	TBD		20.9	
MPE-7	03-Jun-14	TBD	20.82	20.83	0.01
MPE-7	26-Aug-14	TBD	21.24	21.51	0.27
MPE-7	08-Dec-14	TBD	21.21	21.29	0.08
MPE-8	03-Mar-10	TBD		21.74	
MPE-8	10-May-10	TBD		21.60	
MPE-8	17-Aug-10	TBD		21.81	
MPE-8	11-Nov-10	TBD		21.98	
MPE-8	01-Mar-11	TBD		21.95	
MPE-8	20-May-11	TBD		21.78	
MPE-8	25-Aug-11	TBD		22.32	
MPE-8	10-Nov-11	TBD		22.19	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-8	29-Feb-12	TBD		22.00	
MPE-8	21-May-12	TBD		21.96	
MPE-8	13-Aug-12	TBD		22.30	
MPE-8	19-Nov-12	TBD		22.37	
MPE-8	13-Feb-13	TBD		22.20	
MPE-8	14-May-13	TBD		22.06	
MPE-8	14-Aug-13	TBD		22.48	
MPE-8	27-Dec-13	TBD		22.33	
MPE-8	21-Feb-14	TBD		22.19	
MPE-8	03-Jun-14	TBD		22.11	
MPE-8	26-Aug-14	TBD		22.59	
MPE-8	08-Dec-14	TBD	21.50	21.61	0.11
MPE-9	03-Mar-10	TBD		23.44	
MPE-9	10-May-10	TBD		23.29	
MPE-9	17-Aug-10	TBD		23.51	
MPE-9	11-Nov-10	TBD		23.66	
MPE-9	01-Mar-11	TBD		23.49	
MPE-9	20-May-11	TBD		23.43	
MPE-9	25-Aug-11	TBD		23.87	
MPE-9	10-Nov-11	TBD		23.97	
MPE-9	29-Feb-12	TBD		23.68	
MPE-9	21-May-12	TBD		23.66	
MPE-9	13-Aug-12	TBD		24.00	
MPE-9	19-Nov-12	TBD		24.06	
MPE-9	13-Feb-13	TBD		23.89	
MPE-9	14-May-13	TBD		23.76	
MPE-9	14-Aug-13	TBD		24.18	
MPE-9	27-Dec-13	TBD		24.03	
MPE-9	21-Feb-14	TBD		23.90	
MPE-9	03-Jun-14	TBD		23.81	
MPE-9	26-Aug-14	TBD		24.30	
MPE-9	08-Dec-14	TBD		24.22	
MPE-10	03-Mar-10	TBD		23.28	
MPE-10	10-May-10	TBD		23.10	
MPE-10	17-Aug-10	TBD		23.34	
MPE-10	11-Nov-10	TBD		23.46	
MPE-10	01-Mar-11	TBD		23.38	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-10	20-May-11	TBD		23.31	
MPE-10	25-Aug-11	TBD		23.71	
MPE-10	10-Nov-11	TBD		23.67	
MPE-10	29-Feb-12	TBD		23.53	
MPE-10	21-May-12	TBD		23.47	
MPE-10	13-Aug-12	TBD		23.82	
MPE-10	19-Nov-12	TBD		23.86	
MPE-10	13-Feb-13	TBD		23.69	
MPE-10	14-May-13	TBD		23.55	
MPE-10	14-Aug-13	TBD		23.99	
MPE-10	27-Dec-13	TBD		23.82	
MPE-10	21-Feb-14	TBD		23.69	
MPE-10	03-Jun-14	TBD		23.61	
MPE-10	26-Aug-14	TBD		24.12	
MPE-10	08-Dec-14	TBD		24.03	
MPE-11	03-Mar-10	TBD		21.83	
MPE-11	10-May-10	TBD		21.68	
MPE-11	17-Aug-10	TBD	NM-Roots in Well		
MPE-11	11-Nov-10	TBD	NM-Roots in Well		
MPE-11	01-Mar-11	TBD	NM-Roots in Well		
MPE-11	20-May-11	TBD	NM-Roots in Well		
MPE-11	25-Aug-11	TBD		21.65	
MPE-11	10-Nov-11	TBD		21.66	
MPE-11	29-Feb-12	TBD		21.61	
MPE-11	21-May-12	TBD	NM-Roots in Well		
MPE-11	13-Aug-12	TBD	NM-Root Growth at 21.6'		
MPE-11	19-Nov-12	TBD	NM-Roots in Well		
MPE-11	13-Feb-13	TBD	NM-Root Growth at 21.6'		
MPE-11	14-May-13	TBD	Dry		
MPE-11	14-Aug-13	TBD	NM-Root Growth at 21.6'		
MPE-11	27-Dec-13	TBD	Dry		
MPE-11	21-Feb-14	TBD	NM-Root Growth at 21.6'		
MPE-11	03-Jun-14	TBD	NM-Root Growth at 21.6'		
MPE-11	26-Aug-14	TBD	NM-Root Growth at 21.6'		
MPE-11	08-Dec-14	TBD		22.58	
MPE-12	03-Mar-10	TBD		22.34	
MPE-12	10-May-10	TBD		22.20	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-12	17-Aug-10	TBD		22.45	
MPE-12	11-Nov-10	TBD	NM-Roots in Well		
MPE-12	01-Mar-11	TBD	NM-Roots in Well		
MPE-12	20-May-11	TBD	NM-Roots in Well		
MPE-12	25-Aug-11	TBD		22.79	
MPE-12	10-Nov-11	TBD		22.83	
MPE-12	29-Feb-12	TBD		22.59	
MPE-12	21-May-12	TBD		22.57	
MPE-12	13-Aug-12	TBD	NM-Root Growth at 22.7'		
MPE-12	19-Nov-12	TBD	NM-Roots in Well		
MPE-12	13-Feb-13	TBD	NM-Root Growth at 22.5'		
MPE-12	14-May-13	TBD	Dry		
MPE-12	14-Aug-13	TBD	NM-Root Growth at 22.5'		
MPE-12	27-Dec-13	TBD	Dry		
MPE-12	21-Feb-14	TBD	NM-Root Growth at 22.6'		
MPE-12	03-Jun-14	TBD	NM-Root Growth at 22.6'		
MPE-12	26-Aug-14	TBD	NM-Root Growth at 22.5'		
MPE-12	08-Dec-14	TBD		23.09	
MPE-13	03-Mar-10	TBD		22.70	
MPE-13	10-May-10	TBD		22.57	
MPE-13	17-Aug-10	TBD	22.78	22.82	0.04
MPE-13	11-Nov-10	TBD	22.90	22.96	0.06
MPE-13	01-Mar-11	TBD		22.82	
MPE-13	20-May-11	TBD		22.73	
MPE-13	25-Aug-11	TBD	23.12	23.24	0.12
MPE-13	10-Nov-11	TBD	23.11	23.18	0.07
MPE-13	29-Feb-12	TBD	22.97	22.99	0.02
MPE-13	21-May-12	TBD	22.91	22.97	0.06
MPE-13	13-Aug-12	TBD	23.22	23.45	0.23
MPE-13	19-Nov-12	TBD		23.23	
MPE-13	13-Feb-13	TBD	23.10	23.26	0.16
MPE-13	14-May-13	TBD	23.00	23.03	0.03
MPE-13	14-Aug-13	TBD	23.33	23.93	0.60
MPE-13	27-Dec-13	TBD		23.22	
MPE-13	21-Feb-14	TBD	23.13	23.15	0.02
MPE-13	03-Jun-14	TBD		23.06	
MPE-13	26-Aug-14	TBD	23.41	24.13	0.72
MPE-13	08-Dec-14	TBD	23.40	27.70	4.30

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-14	03-Mar-10	TBD		21.80	
MPE-14	10-May-10	TBD		21.65	
MPE-14	17-Aug-10	TBD	21.84	21.85	0.01
MPE-14	11-Nov-10	TBD		22.00	
MPE-14	01-Mar-11	TBD		21.86	
MPE-14	20-May-11	TBD		21.90	
MPE-14	25-Aug-11	TBD		22.23	
MPE-14	10-Nov-11	TBD	22.20	22.34	0.14
MPE-14	29-Feb-12	TBD		22.05	
MPE-14	21-May-12	TBD		22.01	
MPE-14	13-Aug-12	TBD	22.30	22.55	0.25
MPE-14	19-Nov-12	TBD	23.25	23.66	0.41
MPE-14	13-Feb-13	TBD	22.22	22.26	0.04
MPE-14	14-May-13	TBD		22.14	
MPE-14	14-Aug-13	TBD	22.50	22.63	0.13
MPE-14	27-Dec-13	TBD	22.35	22.37	0.02
MPE-14	21-Feb-14	TBD		23.23	
MPE-14	03-Jun-14	TBD		21.15	
MPE-14	26-Aug-14	TBD		22.63	
MPE-14	08-Dec-14	TBD		22.55	
MPE-16	03-Mar-10	TBD		19.92	
MPE-16	10-May-10	TBD		19.78	
MPE-16	17-Aug-10	TBD		19.96	
MPE-16	11-Nov-10	TBD		20.14	
MPE-16	01-Mar-11	TBD		20.21	
MPE-16	20-May-11	TBD		19.97	
MPE-16	25-Aug-11	TBD		20.34	
MPE-16	10-Nov-11	TBD		20.35	
MPE-16	29-Feb-12	TBD		20.19	
MPE-16	21-May-12	TBD		20.12	
MPE-16	13-Aug-12	TBD		20.48	
MPE-16	19-Nov-12	TBD		20.55	
MPE-16	13-Feb-13	TBD		20.36	
MPE-16	14-May-13	TBD		20.24	
MPE-16	14-Aug-13	TBD		20.65	
MPE-16	27-Dec-13	TBD		20.49	
MPE-16	21-Feb-14	TBD		20.35	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-16	03-Jun-14	TBD		20.29	
MPE-16	26-Aug-14	TBD		20.75	
MPE-16	08-Dec-14	TBD		20.69	
MPE-17	03-Mar-10	TBD		20.11	
MPE-17	10-May-10	TBD		19.98	
MPE-17	17-Aug-10	TBD		20.04	
MPE-17	11-Nov-10	TBD		20.34	
MPE-17	01-Mar-11	TBD		20.21	
MPE-17	20-May-11	TBD		20.16	
MPE-17	25-Aug-11	TBD		20.49	
MPE-17	10-Nov-11	TBD		20.54	
MPE-17	29-Feb-12	TBD		20.49	
MPE-17	23-May-12	TBD	20.34	20.36	0.02
MPE-17	13-Aug-12	TBD	20.64	20.65	0.01
MPE-17	19-Nov-12	TBD	20.73	20.74	0.01
MPE-17	13-Feb-13	TBD		20.54	
MPE-17	14-May-13	TBD	20.44	20.46	0.02
MPE-17	14-Aug-13	TBD	20.82	20.86	0.04
MPE-17	27-Dec-13	TBD		20.68	
MPE-17	21-Feb-14	TBD		20.54	
MPE-17	03-Jun-14	TBD		20.48	
MPE-17	26-Aug-14	TBD	20.91	21.04	0.13
MPE-17	08-Dec-14	TBD		20.87	
MPE-18	03-Mar-10	TBD		19.23	
MPE-18	10-May-10	TBD		NM	
MPE-18	17-Aug-10	TBD	19.27	19.28	0.01
MPE-18	11-Nov-10	TBD		19.34	
MPE-18	01-Mar-11	TBD		19.46	
MPE-18	20-May-11	TBD		19.35	
MPE-18	25-Aug-11	TBD		19.46	
MPE-18	10-Nov-11	TBD		19.67	
MPE-18	29-Feb-12	TBD		19.48	
MPE-18	23-May-12	TBD		19.49	
MPE-18	13-Aug-12	TBD		19.78	
MPE-18	19-Nov-12	TBD		19.86	
MPE-18	13-Feb-13	TBD		19.67	
MPE-18	14-May-13	TBD		19.56	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-18	14-Aug-13	TBD		19.96	
MPE-18	27-Dec-13	TBD		19.80	
MPE-18	21-Feb-14	TBD		19.66	
MPE-18	03-Jun-14	TBD		19.61	
MPE-18	26-Aug-14	TBD		20.09	
MPE-18	08-Dec-14	TBD		20.00	
MPE-19	03-Mar-10	TBD		19.02	
MPE-19	10-May-10	TBD		18.86	
MPE-19	17-Aug-10	TBD		19.06	
MPE-19	11-Nov-10	TBD		19.25	
MPE-19	01-Mar-11	TBD		19.05	
MPE-19	20-May-11	TBD		19.02	
MPE-19	25-Aug-11	TBD		19.42	
MPE-19	10-Nov-11	TBD		19.47	
MPE-19	29-Feb-12	TBD		19.28	
MPE-19	23-May-12	TBD		19.23	
MPE-19	13-Aug-12	TBD		19.55	
MPE-19	19-Nov-12	TBD		19.62	
MPE-19	13-Feb-13	TBD		19.41	
MPE-19	14-May-13	TBD		19.31	
MPE-19	14-Aug-13	TBD		19.73	
MPE-19	27-Dec-13	TBD		19.53	
MPE-19	21-Feb-14	TBD		19.37	
MPE-19	03-Jun-14	TBD		19.33	
MPE-19	26-Aug-14	TBD		19.83	
MPE-19	08-Dec-14	TBD		19.73	
Phase 2 Wells					
MPE-20	03-Mar-10	TBD		18.72	
MPE-20	10-May-10	TBD		18.58	
MPE-20	17-Aug-10	TBD		18.75	
MPE-20	11-Nov-10	TBD		18.96	
MPE-20	01-Mar-11	TBD		18.87	
MPE-20	20-May-11	TBD		18.79	
MPE-20	25-Aug-11	TBD		19.14	
MPE-20	10-Nov-11	TBD		19.17	
MPE-20	29-Feb-12	TBD		18.98	
MPE-20	23-May-12	TBD		18.96	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-20	13-Aug-12	TBD		19.25	
MPE-20	19-Nov-12	TBD		19.34	
MPE-20	13-Feb-13	TBD		19.14	
MPE-20	14-May-13	TBD		19.09	
MPE-20	14-Aug-13	TBD		19.45	
MPE-20	27-Dec-13	TBD		19.25	
MPE-20	21-Feb-14	TBD		19.13	
MPE-20	03-Jun-14	TBD		19.11	
MPE-20	26-Aug-14	TBD		19.52	
MPE-20	08-Dec-14	TBD		19.45	
MPE-21	03-Mar-10	TBD	19.88	19.99	0.11
MPE-21	18-May-10	TBD		19.50	
MPE-21	09-Jun-10	TBD		19.75	
MPE-21	17-Aug-10	TBD	19.90	19.91	0.01
MPE-21	11-Nov-10	TBD	20.12	20.21	0.09
MPE-21	01-Mar-11	TBD		19.99	
MPE-21	20-May-11	TBD		19.93	
MPE-21	25-Aug-11	TBD	20.32	20.37	0.05
MPE-21	10-Nov-11	TBD		20.41	
MPE-21	29-Feb-12	TBD	20.13	20.42	0.29
MPE-21	23-May-12	TBD	20.08	20.45	0.37
MPE-21	13-Aug-12	TBD	20.33	20.85	0.52
MPE-21	19-Nov-12	TBD	20.28	21.55	1.27
MPE-21	13-Feb-13	TBD	20.15	21.16	1.01
MPE-21	14-May-13	TBD	20.10	21.05	0.95
MPE-21	14-Aug-13	TBD	20.36	21.75	1.39
MPE-21	27-Dec-13	TBD	20.26	21.24	0.98
MPE-21	21-Feb-14	TBD	20.20	20.96	0.76
MPE-21	03-Jun-14	TBD	20.21	20.88	0.67
MPE-21	26-Aug-14	TBD	20.74	20.78	0.04
MPE-21	08-Dec-14	TBD	20.47	21.54	1.07
MPE-22	03-Mar-10	TBD	20.73	20.81	0.08
MPE-22	18-May-10	TBD		NM	
MPE-22	09-Jun-10	TBD	20.4	20.90	0.50
MPE-22	16-Jun-10	TBD		20.53	
MPE-22	17-Aug-10	TBD	20.71	20.88	0.17
MPE-22	11-Nov-10	TBD	20.94	20.95	0.01

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-22	01-Mar-11	TBD		20.84	
MPE-22	20-May-11	TBD		20.73	
MPE-22	25-Aug-11	TBD	21.11	21.15	0.04
MPE-22	10-Nov-11	TBD		21.28	
MPE-22	29-Feb-12	TBD		20.97	
MPE-22	23-May-12	TBD		20.96	
MPE-22	13-Aug-12	TBD	21.18	21.56	0.38
MPE-22	19-Nov-12	TBD	21.22	21.84	0.62
MPE-22	13-Feb-13	TBD	21.10	21.37	0.27
MPE-22	14-May-13	TBD	21.02	21.33	0.31
MPE-22	14-Aug-13	TBD	21.26	22.20	0.94
MPE-22	27-Dec-13	TBD	21.20	21.53	0.33
MPE-22	21-Feb-14	TBD	21.10	21.29	0.19
MPE-22	03-Jun-14	TBD	21.07	21.30	0.23
MPE-22	26-Aug-14	TBD	21.33	22.33	1.00
MPE-22	08-Dec-14	TBD	21.44	21.51	0.07
MPE-23	03-Mar-10	TBD		21.10	
MPE-23	10-May-10	TBD		20.97	
MPE-23	17-Aug-10	TBD		21.14	
MPE-23	11-Nov-10	TBD		21.33	
MPE-23	01-Mar-11	TBD		21.29	
MPE-23	20-May-11	TBD		20.80	
MPE-23	25-Aug-11	TBD		20.33	
MPE-23	10-Nov-11	TBD		20.25	
MPE-23	29-Feb-12	TBD		20.09	
MPE-23	23-May-12	TBD		20.96	
MPE-23	13-Aug-12	TBD		21.28	
MPE-23	19-Nov-12	TBD		21.41	
MPE-23	13-Feb-13	TBD		21.18	
MPE-23	14-May-13	TBD		21.09	
MPE-23	14-Aug-13	TBD		21.46	
MPE-23	27-Dec-13	TBD	21.28	21.31	0.03
MPE-23	21-Feb-14	TBD	21.16	21.19	0.03
MPE-23	03-Jun-14	TBD	21.10	21.12	0.02
MPE-23	26-Aug-14	TBD	21.53	21.56	0.03
MPE-23	08-Dec-14	TBD	21.49	21.52	0.03
MPE-24	03-Mar-10	TBD		22.69	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-24	10-May-10	TBD		22.53	
MPE-24	17-Aug-10	TBD		22.70	
MPE-24	11-Nov-10	TBD		22.88	
MPE-24	01-Mar-11	TBD		22.78	
MPE-24	20-May-11	TBD		22.64	
MPE-24	25-Aug-11	TBD		23.09	
MPE-24	10-Nov-11	TBD		23.12	
MPE-24	29-Feb-12	TBD		22.98	
MPE-24	23-May-12	TBD		22.90	
MPE-24	13-Aug-12	TBD		23.20	
MPE-24	19-Nov-12	TBD		23.27	
MPE-24	14-May-13	TBD		23.00	
MPE-24	14-Aug-13	TBD	23.36	23.51	0.15
MPE-24	27-Dec-13	TBD	23.18	23.39	0.21
MPE-24	21-Feb-14	TBD		23.10	
MPE-24	03-Jun-14	TBD		23.02	
MPE-24	26-Aug-14	TBD	23.39	23.87	0.48
MPE-24	08-Dec-14	TBD	23.38	23.53	0.15
MPE-25	03-Mar-10	TBD		23.02	
MPE-25	10-May-10	TBD		22.87	
MPE-25	17-Aug-10	TBD		23.12	
MPE-25	11-Nov-10	TBD		23.23	
MPE-25	01-Mar-11	TBD		23.08	
MPE-25	20-May-11	TBD		22.99	
MPE-25	25-Aug-11	TBD		23.55	
MPE-25	10-Nov-11	TBD		23.54	
MPE-25	29-Feb-12	TBD		23.26	
MPE-25	23-May-12	TBD		23.23	
MPE-25	13-Aug-12	TBD		23.59	
MPE-25	19-Nov-12	TBD		23.62	
MPE-25	13-Feb-13	TBD		23.45	
MPE-25	14-May-13	TBD		23.35	
MPE-25	14-Aug-13	TBD	23.75	23.77	0.02
MPE-25	27-Dec-13	TBD	23.55	23.57	0.02
MPE-25	21-Feb-14	TBD	23.43	23.45	0.02
MPE-25	03-Jun-14	TBD		23.39	
MPE-25	26-Aug-14	TBD		23.88	
MPE-25	08-Dec-14	TBD		23.76	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-26	03-Mar-10	TBD	22.75	23.41	0.66
MPE-26	18-May-10	TBD	22.58	23.38	0.80
MPE-26	28-May-10	TBD	22.55	23.42	0.87
MPE-26	09-Jun-10	TBD	22.56	23.73	1.17
MPE-26	17-Aug-10	TBD	22.94	23.34	0.40
MPE-26	11-Nov-10	TBD	23.04	23.59	0.55
MPE-26	03-Mar-11	TBD	22.96	23.38	0.42
MPE-26	20-May-11	TBD	22.82	22.86	0.04
MPE-26	25-Aug-11	TBD	23.29	23.99	0.70
MPE-26	10-Nov-11	TBD	23.17	24.14	0.97
MPE-26	29-Feb-12	TBD	22.89	23.95	1.06
MPE-26	23-May-12	TBD	23.00	23.28	0.28
MPE-26	13-Aug-12	TBD	23.28	24.25	0.97
MPE-26	19-Nov-12	TBD	23.22	24.29	1.07
MPE-26	13-Feb-13	TBD	23.10	24.50	1.40
MPE-26	14-May-13	TBD	23.02	23.86	0.84
MPE-26	14-Aug-13	TBD	23.42	24.45	1.03
MPE-26	27-Dec-13	TBD	23.22	24.14	0.92
MPE-26	21-Feb-14	TBD	23.12	23.89	0.77
MPE-26	03-Jun-14	TBD	23.08	23.79	0.71
MPE-26	26-Aug-14	TBD	23.54	24.49	0.95
MPE-26	08-Dec-14	TBD	23.41	24.39	0.98
MPE-27	03-Mar-10	TBD		21.92	
MPE-27	10-May-10	TBD		21.76	
MPE-27	17-Aug-10	TBD		22.03	
MPE-27	11-Nov-10	TBD		22.06	
MPE-27	03-Mar-11	TBD	NM-Roots in Well		
MPE-27	20-May-11	TBD	NM-Roots in Well		
MPE-27	25-Aug-11	TBD		21.42	
MPE-27	10-Nov-11	TBD		21.33	
MPE-27	29-Feb-12	TBD		22.06	
MPE-27	23-May-12	TBD		22.15	
MPE-27	13-Aug-12	TBD	NM-Root Growth at 22.2'		
MPE-27	19-Nov-12	TBD	NM-Roots in Well		
MPE-27	13-Feb-13	TBD	NM-Root Growth at 22'		
MPE-27	14-May-13	TBD	Dry		
MPE-27	14-Aug-13	TBD	NM-Root Growth at 22'		

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-27	27-Dec-13	TBD	Dry		
MPE-27	21-Feb-14	TBD	NM-Root Growth at 22'		
MPE-27	03-Jun-14	TBD	NM-Root Growth at 22'		
MPE-27	26-Aug-14	TBD	NM-Root Growth at 22'		
MPE-27	08-Dec-14	TBD		22.59	
MPE-28	03-Mar-10	TBD		21.54	
MPE-28	10-May-10	TBD		21.39	
MPE-28	17-Aug-10	TBD		21.70	
MPE-28	11-Nov-10	TBD	NM-Roots in Well		
MPE-28	03-Mar-11	TBD	NM-Roots in Well		
MPE-28	20-May-11	TBD	NM-Roots in Well		
MPE-28	25-Aug-11	TBD		22.19	
MPE-28	10-Nov-11	TBD		21.93	
MPE-28	29-Feb-12	TBD		21.74	
MPE-28	23-May-12	TBD		21.84	
MPE-28	13-Aug-12	TBD		22.18	
MPE-28	19-Nov-12	TBD	NM-Roots in Well		
MPE-28	13-Feb-13	TBD	NM-Root Growth at 22'		
MPE-28	14-May-13	TBD	Dry		
MPE-28	14-Aug-13	TBD	NM-Root Growth at 22'		
MPE-28	27-Dec-13	TBD	Dry		
MPE-28	21-Feb-14	TBD	NM-Root Growth at 22'		
MPE-28	03-Jun-14	TBD	NM-Root Growth at 22'		
MPE-28	26-Aug-14	TBD	NM-Root Growth at 22'		
MPE-28	08-Dec-14	TBD		22.56	
MPE-29	03-Mar-10	TBD		20.54	
MPE-29	10-May-10	TBD		20.39	
MPE-29	17-Aug-10	TBD		20.73	
MPE-29	11-Nov-10	TBD		21.72	
MPE-29	03-Mar-11	TBD		21.45	
MPE-29	19-May-11	TBD		20.49	
MPE-29	25-Aug-11	TBD		21.03	
MPE-29	10-Nov-11	TBD		20.93	
MPE-29	29-Feb-12	TBD		20.87	
MPE-29	23-May-12	TBD		20.84	
MPE-29	13-Aug-12	TBD		21.11	
MPE-29	19-Nov-12	TBD	NM-Roots in Well		

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-29	13-Feb-13	TBD	NM-Root Growth at 21'		
MPE-29	14-May-13	TBD	Dry		
MPE-29	14-Aug-13	TBD	NM-Root Growth at 20.6'		
MPE-29	27-Dec-13	TBD	Dry		
MPE-29	21-Feb-14	TBD	NM-Root Growth at 21.5'		
MPE-29	03-Jun-14	TBD	NM-Root Growth at 21'		
MPE-29	26-Aug-14	TBD	NM-Root Growth at 20.7'		
MPE-29	08-Dec-14	TBD		21.33	
MPE-30	03-Mar-10	TBD		21.19	
MPE-30	10-May-10	TBD		20.03	
MPE-30	17-Aug-10	TBD		21.33	
MPE-30	12-Nov-10	TBD		21.36	
MPE-30	03-Mar-11	TBD		20.99	
MPE-30	19-May-11	TBD		21.18	
MPE-30	25-Aug-11	TBD		21.75	
MPE-30	10-Nov-11	TBD		21.68	
MPE-30	29-Feb-12	TBD		21.36	
MPE-30	23-May-12	TBD		21.46	
MPE-30	13-Aug-12	TBD	NM-Root Growth at 21.4'		
MPE-30	19-Nov-12	TBD	NM-Roots in Well		
MPE-30	13-Feb-13	TBD	NM-Root Growth at 21'		
MPE-30	14-May-13	TBD	Dry		
MPE-30	14-Aug-13	TBD	NM-Root Growth at 21.4'		
MPE-30	27-Dec-13	TBD	Dry		
MPE-30	21-Feb-14	TBD	NM-Root Growth at 21.3'		
MPE-30	03-Jun-14	TBD	NM-Root Growth at 21.4'		
MPE-30	26-Aug-14	TBD	NM-Root Growth at 21.3'		
MPE-30	08-Dec-14	TBD		21.89	
MPE-31	03-Mar-10	TBD		22.46	
MPE-31	10-May-10	TBD		22.30	
MPE-31	17-Aug-10	TBD		22.57	
MPE-31	12-Nov-10	TBD		22.64	
MPE-31	03-Mar-11	TBD		22.45	
MPE-31	19-May-11	TBD		22.45	
MPE-31	25-Aug-11	TBD		22.95	
MPE-31	10-Nov-11	TBD		22.87	
MPE-31	29-Feb-12	TBD		22.66	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-31	23-May-12	TBD		22.71	
MPE-31	13-Aug-12	TBD		23.00	
MPE-31	19-Nov-12	TBD	NM-Roots in Well		
MPE-31	21-Feb-13	TBD	NM-Root Growth at 22.6'		
MPE-31	14-May-13	TBD		22.80	
MPE-31	14-Aug-13	TBD	NM-Root Growth at 22.6'		
MPE-31	27-Dec-13	TBD	Dry		
MPE-31	21-Feb-14	TBD		22.81	
MPE-31	03-Jun-14	TBD	NM-Root Growth at 23'		
MPE-31	26-Aug-14	TBD	NM-Root Growth at 22.7'		
MPE-31	08-Dec-14	TBD		23.16	
MPE-33	03-Mar-10	TBD		22.34	
MPE-33	10-May-10	TBD		22.19	
MPE-33	17-Aug-10	TBD		22.39	
MPE-33	12-Nov-10	TBD		22.54	
MPE-33	03-Mar-11	TBD		22.61	
MPE-33	19-May-11	TBD		22.34	
MPE-33	25-Aug-11	TBD		22.78	
MPE-33	10-Nov-11	TBD		22.78	
MPE-33	29-Feb-12	TBD	22.54	22.73	0.19
MPE-33	23-May-12	TBD	22.51	22.59	0.08
MPE-33	13-Aug-12	TBD	22.73	23.41	0.68
MPE-33	19-Nov-12	TBD	21.80	22.36	0.56
MPE-33	21-Feb-13	TBD	22.66	23.02	0.36
MPE-33	14-May-13	TBD	22.60	22.84	0.24
MPE-33	14-Aug-13	TBD	22.91	23.50	0.59
MPE-33	27-Dec-13	TBD	22.78	23.13	0.35
MPE-33	21-Feb-14	TBD	22.70	22.84	0.14
MPE-33	03-Jun-14	TBD	22.66	22.69	0.03
MPE-33	26-Aug-14	TBD	22.97	23.68	0.71
MPE-33	08-Dec-14	TBD	22.93	23.45	0.52
MPE-34	03-Mar-10	TBD		22.16	
MPE-34	10-May-10	TBD		22.01	
MPE-34	17-Aug-10	TBD		22.20	
MPE-34	12-Nov-10	TBD		22.37	
MPE-34	03-Mar-11	TBD		22.41	
MPE-34	19-May-11	TBD		22.19	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-34	25-Aug-11	TBD		22.60	
MPE-34	10-Nov-11	TBD		22.67	
MPE-34	29-Feb-12	TBD		22.44	
MPE-34	23-May-12	TBD		22.38	
MPE-34	13-Aug-12	TBD		22.66	
MPE-34	19-Nov-12	TBD	22.61	23.25	0.64
MPE-34	21-Feb-13	TBD	22.45	22.95	0.50
MPE-34	14-May-13	TBD	22.40	22.86	0.46
MPE-34	14-Aug-13	TBD	22.66	23.62	0.96
MPE-34	27-Dec-13	TBD	22.56	23.15	0.59
MPE-34	21-Feb-14	TBD	22.50	22.81	0.31
MPE-34	03-Jun-14	TBD	22.44	22.67	0.23
MPE-34	26-Aug-14	TBD	22.75	23.69	0.94
MPE-34	08-Dec-14	TBD	22.76	23.35	0.59
MPE-35	24-Feb-10	TBD	20.71	20.95	0.24
MPE-35	03-Mar-10	TBD	20.64	20.98	0.34
MPE-35	18-May-10	TBD	20.34	20.67	0.33
MPE-35	09-Jun-10	TBD	20.26	20.79	0.53
MPE-35	16-Jun-10	TBD		20.46	
MPE-35	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-35	12-Nov-10	TBD	20.86	21.27	0.41
MPE-35	03-Mar-11	TBD	20.87	21.25	0.38
MPE-35	19-May-11	TBD		20.74	
MPE-35	25-Aug-11	TBD	21.05	21.59	0.54
MPE-35	10-Nov-11	TBD	21.07	21.70	0.63
MPE-35	29-Feb-12	TBD	21.00	21.09	0.09
MPE-35	23-May-12	TBD	20.88	21.12	0.24
MPE-35	13-Aug-12	TBD	21.05	21.95	0.90
MPE-35	19-Nov-12	TBD	21.13	22.00	0.87
MPE-35	21-Feb-13	TBD	21.05	21.38	0.33
MPE-35	14-May-13	TBD	21.02	21.28	0.26
MPE-35	14-Aug-13	TBD	21.22	22.19	0.97
MPE-35	27-Dec-13	TBD	21.15	21.53	0.38
MPE-35	21-Feb-14	TBD	21.08	21.16	0.08
MPE-35	03-Jun-14	TBD	29.09	29.10	0.01
MPE-35	26-Aug-14	TBD	21.34	22.09	0.75
MPE-35	08-Dec-14	TBD	21.41	21.57	0.16

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-36	03-Mar-10	TBD		19.91	
MPE-36	10-May-10	TBD		NM	
MPE-36	16-Jun-10	TBD		19.72	
MPE-36	17-Aug-10	TBD		19.94	
MPE-36	12-Nov-10	TBD		20.11	
MPE-36	03-Mar-11	TBD		19.92	
MPE-36	19-May-11	TBD		19.98	
MPE-36	25-Aug-11	TBD		20.27	
MPE-36	10-Nov-11	TBD	20.26	20.66	0.40
MPE-36	29-Feb-12	TBD	20.13	20.37	0.24
MPE-36	23-May-12	TBD	20.07	20.21	0.14
MPE-36	13-Aug-12	TBD	20.32	20.72	0.40
MPE-36	19-Nov-12	TBD	20.35	20.97	0.62
MPE-36	21-Feb-13	TBD	20.23	20.53	0.30
MPE-36	14-May-13	TBD	20.22	20.40	0.18
MPE-36	14-Aug-13	TBD	20.44	21.15	0.71
MPE-36	27-Dec-13	TBD	20.33	20.68	0.35
MPE-36	21-Feb-14	TBD	20.26	20.34	0.08
MPE-36	03-Jun-14	TBD		20.35	
MPE-36	26-Aug-14	TBD	20.59	20.90	0.31
MPE-36	08-Dec-14	TBD	20.49	21.02	0.53
MPE-37	03-Mar-10	TBD	20.11	20.67	0.56
MPE-37	18-May-10	TBD		19.98	
MPE-37	16-Jun-10	TBD		20.07	
MPE-37	17-Aug-10	TBD		20.31	
MPE-37	12-Nov-10	TBD		20.51	
MPE-37	03-Mar-11	TBD		20.33	
MPE-37	19-May-11	TBD		20.37	
MPE-37	25-Aug-11	TBD		20.33	
MPE-37	10-Nov-11	TBD	20.68	20.7	0.02
MPE-37	29-Feb-12	TBD		20.52	
MPE-37	23-May-12	TBD		20.49	
MPE-37	13-Aug-12	TBD		20.76	
MPE-37	19-Nov-12	TBD	20.84	20.88	0.04
MPE-37	21-Feb-13	TBD		20.65	
MPE-37	14-May-13	TBD		20.65	
MPE-37	14-Aug-13	TBD	20.85	21.42	0.57
MPE-37	27-Dec-13	TBD	20.52	21.75	1.23

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-37	21-Feb-14	TBD	20.45	21.43	0.98
MPE-37	03-Jun-14	TBD	20.57	20.77	0.20
MPE-37	26-Aug-14	TBD	20.85	21.68	0.83
MPE-37	08-Dec-14	TBD	20.79	21.62	0.83
MPE-38	03-Mar-10	TBD	19.80	19.83	0.03
MPE-38	18-May-10	TBD	19.49	20.40	0.91
MPE-38	09-Jun-10	TBD	19.51	20.31	0.80
MPE-38	16-Jun-10	TBD	19.61	20.30	0.69
MPE-38	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-38	12-Nov-10	TBD	19.99	20.59	0.60
MPE-38	03-Mar-11	TBD	20.06	20.63	0.57
MPE-38	19-May-11	TBD		19.83	
MPE-38	25-Aug-11	TBD	20.18	20.26	0.08
MPE-38	10-Nov-11	TBD	20.20	20.28	0.08
MPE-38	29-Feb-12	TBD	20.03	20.05	0.02
MPE-38	23-May-12	TBD	19.96	20.05	0.09
MPE-38	13-Aug-12	TBD	20.24	20.40	0.16
MPE-38	19-Nov-12	TBD	20.34	20.40	0.06
MPE-38	21-Feb-13	TBD	20.12	20.13	0.01
MPE-38	14-May-13	TBD	20.13	20.15	0.02
MPE-38	14-Aug-13	TBD	20.45	20.52	0.07
MPE-38	27-Dec-13	TBD		20.26	
MPE-38	21-Feb-14	TBD		20.20	
MPE-38	03-Jun-14	TBD		20.16	
MPE-38	26-Aug-14	TBD		20.51	
MPE-38	08-Dec-14	TBD		20.44	
Phase 3 Wells					
MPE-39	18-Jun-10	TBD		17.29	
MPE-39	17-Aug-10	TBD		17.44	
MPE-39	12-Nov-10	TBD		17.64	
MPE-39	03-Mar-11	TBD		17.51	
MPE-39	19-May-11	TBD		17.49	
MPE-39	25-Aug-11	TBD		17.78	
MPE-39	10-Nov-11	TBD		17.83	
MPE-39	29-Feb-12	TBD		17.65	
MPE-39	23-May-12	TBD		17.63	
MPE-39	13-Aug-12	TBD		17.91	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-39	19-Nov-12	TBD		17.99	
MPE-39	21-Feb-13	TBD		17.88	
MPE-39	14-May-13	TBD		17.81	
MPE-39	14-Aug-13	TBD		18.13	
MPE-39	27-Dec-13	TBD		17.88	
MPE-39	21-Feb-14	TBD		17.77	
MPE-39	03-Jun-14	TBD		17.79	
MPE-39	26-Aug-14	TBD		18.14	
MPE-39	08-Dec-14	TBD		18.09	
MPE-40	18-Jun-10	TBD		17.46	
MPE-40	17-Aug-10	TBD		17.63	
MPE-40	12-Nov-10	TBD		17.83	
MPE-40	03-Mar-11	TBD		17.72	
MPE-40	19-May-11	TBD		17.64	
MPE-40	25-Aug-11	TBD		17.98	
MPE-40	15-Nov-11	TBD		18.06	
MPE-40	29-Feb-12	TBD		17.85	
MPE-40	23-May-12	TBD		18.50	
MPE-40	13-Aug-12	TBD		18.12	
MPE-40	19-Nov-12	TBD		18.21	
MPE-40	21-Feb-13	TBD		17.99	
MPE-40	14-May-13	TBD		18.01	
MPE-40	14-Aug-13	TBD		18.34	
MPE-40	27-Dec-13	TBD		18.10	
MPE-40	21-Feb-14	TBD		17.97	
MPE-40	03-Jun-14	TBD		17.99	
MPE-40	26-Aug-14	TBD		18.35	
MPE-40	08-Dec-14	TBD		18.28	
MPE-41	18-Jun-10	TBD		18.14	
MPE-41	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-41	12-Nov-10	TBD		18.51	
MPE-41	03-Mar-11	TBD		18.57	
MPE-41	19-May-11	TBD		18.37	
MPE-41	25-Aug-11	TBD		18.66	
MPE-41	15-Nov-11	TBD		18.74	
MPE-41	29-Feb-12	TBD		18.52	
MPE-41	23-May-12	TBD		19.25	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-41	13-Aug-12	TBD		18.78	
MPE-41	19-Nov-12	TBD		18.86	
MPE-41	21-Feb-13	TBD		18.67	
MPE-41	14-May-13	TBD		18.68	
MPE-41	14-Aug-13	TBD		19.00	
MPE-41	27-Dec-13	TBD		18.77	
MPE-41	21-Feb-14	TBD		18.65	
MPE-41	03-Jun-14	TBD		18.70	
MPE-41	26-Aug-14	TBD		19.03	
MPE-41	08-Dec-14	TBD		18.95	
MPE-42	18-Jun-10	TBD		18.90	
MPE-42	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-42	12-Nov-10	TBD		19.25	
MPE-42	03-Mar-11	TBD		19.30	
MPE-42	19-May-11	TBD		19.11	
MPE-42	25-Aug-11	TBD		19.48	
MPE-42	15-Nov-11	TBD		19.46	
MPE-42	29-Feb-12	TBD		19.25	
MPE-42	23-May-12	TBD		20.09	
MPE-42	13-Aug-12	TBD		19.54	
MPE-42	19-Nov-12	TBD	19.46	20.28	0.82
MPE-42	21-Feb-13	TBD	19.28	20.00	0.72
MPE-42	14-May-13	TBD	19.24	20.20	0.96
MPE-42	14-Aug-13	TBD	19.42	21.00	1.58
MPE-42	27-Dec-13	TBD	19.32	20.39	1.07
MPE-42	21-Feb-14	TBD	19.26	20.02	0.76
MPE-42	03-Jun-14	TBD	19.28	19.76	0.48
MPE-42	27-Aug-14	TBD	19.53	20.73	1.20
MPE-42	08-Dec-14	TBD	19.65	20.00	0.35
MPE-43	18-Jun-10	TBD		19.75	
MPE-43	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-43	12-Nov-10	TBD		20.10	
MPE-43	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-43	19-May-11	TBD		19.95	
MPE-43	25-Aug-11	TBD		20.25	
MPE-43	15-Nov-11	TBD		20.27	
MPE-43	29-Feb-12	TBD		20.16	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-43	23-May-12	TBD	20.18	20.80	0.62
MPE-43	13-Aug-12	TBD		20.38	
MPE-43	19-Nov-12	TBD		20.47	
MPE-43	21-Feb-13	TBD		20.27	
MPE-43	14-May-13	TBD		20.28	
MPE-43	14-Aug-13	TBD		20.59	
MPE-43	27-Dec-13	TBD	20.35	20.55	0.20
MPE-43	21-Feb-14	TBD	20.24	20.29	0.05
MPE-43	03-Jun-14	TBD		20.25	
MPE-43	27-Aug-14	TBD	20.58	20.86	0.28
MPE-43	08-Dec-14	TBD		20.60	
MPE-44	18-Jun-10	TBD		19.95	
MPE-44	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-44	12-Nov-10	TBD		20.29	
MPE-44	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-44	19-May-11	TBD	20.09	20.10	0.01
MPE-44	25-Aug-11	TBD	20.66	20.70	0.04
MPE-44	15-Nov-11	TBD	20.37	21.49	1.12
MPE-44	29-Feb-12	TBD	20.24	21.20	0.96
MPE-44	23-May-12	TBD	20.41	20.50	0.09
MPE-44	13-Aug-12	TBD	20.36	21.30	0.94
MPE-44	19-Nov-12	TBD	20.40	21.54	1.14
MPE-44	21-Feb-13	TBD	20.30	21.08	0.78
MPE-44	14-May-13	TBD	20.30	20.95	0.65
MPE-44	14-Aug-13	TBD	20.53	21.59	1.06
MPE-44	27-Dec-13	TBD	20.44	21.05	0.61
MPE-44	21-Feb-14	TBD	20.36	20.75	0.39
MPE-44	03-Jun-14	TBD	20.32	20.62	0.30
MPE-44	27-Aug-14	TBD	20.65	21.34	0.69
MPE-44	08-Dec-14	TBD	20.30	20.98	0.68
MPE-45	18-Jun-10	TBD		20.05	sheen
MPE-45	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-45	12-Nov-10	TBD		20.38	
MPE-45	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-45	19-May-11	TBD		20.22	
MPE-45	25-Aug-11	TBD	20.63	20.97	0.34
MPE-45	15-Nov-11	TBD	20.66	21.23	0.57

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-45	29-Feb-12	TBD	20.45	20.77	0.32
MPE-45	23-May-12	TBD		21.52	
MPE-45	13-Aug-12	TBD	20.60	21.19	0.59
MPE-45	19-Nov-12	TBD	20.63	21.41	0.78
MPE-45	21-Feb-13	TBD	20.52	20.86	0.34
MPE-45	14-May-13	TBD	20.52	20.62	0.10
MPE-45	14-Aug-13	TBD	20.70	21.80	1.10
MPE-45	27-Dec-13	TBD	20.61	21.11	0.50
MPE-45	21-Feb-14	TBD	20.53	20.75	0.22
MPE-45	03-Jun-14	TBD	20.45	20.87	0.42
MPE-45	27-Aug-14	TBD	20.74	22.03	1.29
MPE-45	08-Dec-14	TBD	20.78	21.63	0.85
MPE-46	18-Jun-10	TBD		21.16	
MPE-46	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-46	12-Nov-10	TBD		21.46	
MPE-46	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-46	19-May-11	TBD		21.28	
MPE-46	25-Aug-11	TBD		21.72	
MPE-46	15-Nov-11	TBD		21.53	
MPE-46	29-Feb-12	TBD		21.25	
MPE-46	23-May-12	TBD	20.95	21.58	0.63
MPE-46	13-Aug-12	TBD		21.81	
MPE-46	19-Nov-12	TBD		21.82	
MPE-46	21-Feb-13	TBD		21.64	
MPE-46	14-May-13	TBD		21.58	
MPE-46	14-Aug-13	TBD		21.98	
MPE-46	27-Dec-13	TBD		21.76	
MPE-46	21-Feb-14	TBD		21.65	
MPE-46	03-Jun-14	TBD		21.60	
MPE-46	27-Aug-14	TBD		22.05	
MPE-46	08-Dec-14	TBD	21.86	22.34	0.48
MPE-47	18-Jun-10	TBD		20.68	
MPE-47	17-Aug-10	TBD		20.92	
MPE-47	12-Nov-10	TBD	20.87	21.28	0.41
MPE-47	03-Mar-11	TBD	20.80	21.29	0.49
MPE-47	19-May-11	TBD	20.73	20.75	0.02
MPE-47	25-Aug-11	TBD	21.13	22.25	1.12

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-47	15-Nov-11	TBD	21.00	21.82	0.82
MPE-47	29-Feb-12	TBD	20.93	21.19	0.26
MPE-47	23-May-12	TBD		19.24	
MPE-47	13-Aug-12	TBD	21.15	22.42	1.27
MPE-47	19-Nov-12	TBD	21.12	22.15	1.03
MPE-47	21-Feb-13	TBD	21.01	21.60	0.59
MPE-47	14-May-13	TBD	20.97	21.50	0.53
MPE-47	14-Aug-13	TBD	21.29	22.65	1.36
MPE-47	27-Dec-13	TBD	21.11	21.84	0.73
MPE-47	21-Feb-14	TBD	21.03	21.51	0.48
MPE-47	03-Jun-14	TBD	21.00	21.46	0.46
MPE-47	27-Aug-14	TBD	21.36	22.65	1.29
MPE-47	08-Dec-14	TBD	21.28	22.13	0.85
MPE-48	18-Jun-10	TBD		19.94	
MPE-48	17-Aug-10	TBD		20.22	
MPE-48	12-Nov-10	TBD		20.11	
MPE-48	03-Mar-11	TBD		20.16	
MPE-48	19-May-11	TBD		19.91	
MPE-48	25-Aug-11	TBD		20.55	
MPE-48	15-Nov-11	TBD		20.24	
MPE-48	29-Feb-12	TBD		20.14	
MPE-48	23-May-12	TBD		19.52	
MPE-48	13-Aug-12	TBD		20.55	
MPE-48	19-Nov-12	TBD	NM-Roots in Well		
MPE-48	21-Feb-13	TBD	NM-Root Growth at 20'		
MPE-48	14-May-13	TBD	Dry		
MPE-48	14-Aug-13	TBD	NM-Root Growth at 20'		
MPE-48	27-Dec-13	TBD	Dry		
MPE-48	21-Feb-14	TBD	NM-Root Growth at 20'		
MPE-48	03-Jun-14	TBD	NM-Root Growth at 20'		
MPE-48	27-Aug-14	TBD	NM-Root Growth at 20'		
MPE-48	08-Dec-14	TBD		20.54	
MPE-49	18-Jun-10	TBD		19.13	
MPE-49	17-Aug-10	TBD		19.44	
MPE-49	12-Nov-10	TBD		19.32	
MPE-49	03-Mar-11	TBD		19.35	
MPE-49	25-May-11	TBD		19.08	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-49	25-Aug-11	TBD		19.80	
MPE-49	15-Nov-11	TBD		19.59	
MPE-49	29-Feb-12	TBD		19.34	
MPE-49	23-May-12	TBD	20.56	20.82	0.26
MPE-49	13-Aug-12	TBD		19.98	
MPE-49	19-Nov-12	TBD	NM-Roots in Well		
MPE-49	21-Feb-13	TBD		19.49	
MPE-49	14-May-13	TBD		19.45	
MPE-49	14-Aug-13	TBD	NM-Root Growth at 20'		
MPE-49	27-Dec-13	TBD		19.66	
MPE-49	21-Feb-14	TBD		19.50	
MPE-49	03-Jun-14	TBD		19.44	
MPE-49	27-Aug-14	TBD	NM-Root Growth at 20'		
MPE-49	08-Dec-14	TBD		20.32	
MPE-50	18-Jun-10	TBD		20.24	
MPE-50	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-50	12-Nov-10	TBD		20.49	
MPE-50	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-50	25-May-11	TBD		20.39	
MPE-50	25-Aug-11	TBD		20.90	
MPE-50	15-Nov-11	TBD	20.65	21.02	0.37
MPE-50	29-Feb-12	TBD	20.52	20.75	0.23
MPE-50	23-May-12	TBD		21.01	
MPE-50	13-Aug-12	TBD	20.89	21.26	0.37
MPE-50	19-Nov-12	TBD	20.86	21.13	0.27
MPE-50	21-Feb-13	TBD	20.63	21.10	0.47
MPE-50	14-May-13	TBD	20.63	21.08	0.45
MPE-50	14-Aug-13	TBD	21.04	21.60	0.56
MPE-50	06-Jan-14	TBD	20.77	21.17	0.40
MPE-50	21-Feb-14	TBD	20.64	21.07	0.43
MPE-50	03-Jun-14	TBD	20.61	21.01	0.40
MPE-50	27-Aug-14	TBD	21.08	21.56	0.48
MPE-50	08-Dec-14	TBD	20.88	21.69	0.81
MPE-51	18-Jun-10	TBD		20.70	
MPE-51	17-Aug-10	TBD		20.68	
MPE-51	12-Nov-10	TBD		20.99	
MPE-51	03-Mar-11	TBD		21.04	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-51	25-May-11	TBD		20.80	
MPE-51	25-Aug-11	TBD		21.27	
MPE-51	15-Nov-11	TBD		21.21	
MPE-51	29-Feb-12	TBD		21.05	
MPE-51	25-May-12	TBD	20.74	21.24	0.50
MPE-51	13-Aug-12	TBD		21.30	
MPE-51	20-Nov-12	TBD		21.35	
MPE-51	21-Feb-13	TBD		21.17	
MPE-51	14-May-13	TBD		21.16	
MPE-51	14-Aug-13	TBD		21.48	
MPE-51	06-Jan-14	TBD	21.27	21.34	0.07
MPE-51	21-Feb-14	TBD	21.15	21.16	0.01
MPE-51	03-Jun-14	TBD		21.10	
MPE-51	27-Aug-14	TBD	21.52	21.54	0.02
MPE-51	08-Dec-14	TBD	21.40	21.68	0.28
MPE-52	18-Jun-10	TBD		20.49	
MPE-52	17-Aug-10	TBD		20.64	
MPE-52	12-Nov-10	TBD		20.84	
MPE-52	03-Mar-11	TBD		20.70	
MPE-52	25-May-11	TBD		20.69	
MPE-52	25-Aug-11	TBD	20.97	21.23	0.26
MPE-52	15-Nov-11	TBD	20.92	21.34	0.42
MPE-52	29-Feb-12	TBD	20.73	21.13	0.40
MPE-52	25-May-12	TBD	19.49	19.93	0.44
MPE-52	13-Aug-12	TBD	21.04	21.46	0.42
MPE-52	20-Nov-12	TBD	21.08	21.62	0.54
MPE-52	21-Feb-13	TBD	20.93	21.10	0.17
MPE-52	14-May-13	TBD	20.97	21.06	0.09
MPE-52	14-Aug-13	TBD	21.15	21.91	0.76
MPE-52	06-Jan-14	TBD	21.04	21.30	0.26
MPE-52	21-Feb-14	TBD	20.94	21.11	0.17
MPE-52	03-Jun-14	TBD	20.87	21.14	0.27
MPE-52	27-Aug-14	TBD	21.13	22.14	1.01
MPE-52	08-Dec-14	TBD	21.14	21.82	0.68
MPE-53	18-Jun-10	TBD		19.23	
MPE-53	17-Aug-10	TBD		19.38	
MPE-53	12-Nov-10	TBD		19.55	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-53	03-Mar-11	TBD		19.42	
MPE-53	25-May-11	TBD	19.29	19.74	0.45
MPE-53	25-Aug-11	TBD	19.76	20.74	0.98
MPE-53	15-Nov-11	TBD	19.65	20.75	1.10
MPE-53	29-Feb-12	TBD	19.47	20.13	0.66
MPE-53	25-May-12	TBD	19.22	19.33	0.11
MPE-53	14-Aug-12	TBD	19.70	20.53	0.83
MPE-53	20-Nov-12	TBD	19.75	20.66	0.91
MPE-53	21-Feb-13	TBD	19.62	20.18	0.56
MPE-53	14-May-13	TBD	19.68	20.06	0.38
MPE-53	14-Aug-13	TBD	19.85	20.95	1.10
MPE-53	06-Jan-14	TBD	19.71	20.35	0.64
MPE-53	21-Feb-14	TBD	19.65	20.03	0.38
MPE-53	03-Jun-14	TBD	19.64	19.86	0.22
MPE-53	27-Aug-14	TBD	19.85	20.94	1.09
MPE-53	08-Dec-14	TBD	19.87	20.68	0.81
MPE-54	18-Jun-10	TBD		18.85	
MPE-54	17-Aug-10	TBD		19.02	
MPE-54	12-Nov-10	TBD		19.19	
MPE-54	03-Mar-11	TBD		19.15	
MPE-54	25-May-11	TBD		19.23	
MPE-54	25-Aug-11	TBD	19.38	19.88	0.50
MPE-54	15-Nov-11	TBD	19.47	20.03	0.56
MPE-54	29-Feb-12	TBD	19.26	19.35	0.09
MPE-54	25-May-12	TBD		18.71	
MPE-54	14-Aug-12	TBD	19.40	20.18	0.78
MPE-54	20-Nov-12	TBD	19.45	20.31	0.86
MPE-54	21-Feb-13	TBD	19.35	19.77	0.42
MPE-54	14-May-13	TBD	19.42	19.69	0.27
MPE-54	14-Aug-13	TBD	19.58	20.64	1.06
MPE-54	06-Jan-14	TBD	19.45	19.80	0.35
MPE-54	21-Feb-14	TBD	19.37	19.59	0.22
MPE-54	03-Jun-14	TBD	19.35	19.45	0.10
MPE-54	27-Aug-14	TBD	19.58	20.52	0.94
MPE-54	08-Dec-14	TBD	19.60	20.17	0.57
MPE-55	18-Jun-10	TBD		18.36	
MPE-55	17-Aug-10	TBD		18.51	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-55	12-Nov-10	TBD		18.70	
MPE-55	03-Mar-11	TBD		18.61	
MPE-55	25-May-11	TBD		18.52	
MPE-55	25-Aug-11	TBD		18.86	
MPE-55	15-Nov-11	TBD		18.91	
MPE-55	29-Feb-12	TBD		18.73	
MPE-55	25-May-12	TBD		14.14	
MPE-55	14-Aug-12	TBD		19.00	
MPE-55	20-Nov-12	TBD		19.06	
MPE-55	21-Feb-13	TBD		18.87	
MPE-55	14-May-13	TBD		18.93	
MPE-55	14-Aug-13	TBD		19.22	
MPE-55	06-Jan-14	TBD		18.96	
MPE-55	21-Feb-14	TBD		18.85	
MPE-55	03-Jun-14	TBD		18.84	
MPE-55	27-Aug-14	TBD		19.19	
MPE-55	08-Dec-14	TBD		19.14	
MPE-56	18-Jun-10	TBD		13.80	
MPE-56	17-Aug-10	TBD		13.94	
MPE-56	12-Nov-10	TBD		14.14	
MPE-56	03-Mar-11	TBD		14.21	
MPE-56	19-May-11	TBD		14.01	
MPE-56	25-Aug-11	TBD		14.28	
MPE-56	15-Nov-11	TBD		14.30	
MPE-56	29-Feb-12	TBD		14.22	
MPE-56	25-May-12	TBD		14.83	
MPE-56	14-Aug-12	TBD		14.41	
MPE-56	20-Nov-12	TBD		14.49	
MPE-56	21-Feb-13	TBD		14.29	
MPE-56	14-May-13	TBD		14.35	
MPE-56	14-Aug-13	TBD		14.65	
MPE-56	06-Jan-14	TBD		14.37	
MPE-56	21-Feb-14	TBD		14.28	
MPE-56	03-Jun-14	TBD		14.28	
MPE-56	27-Aug-14	TBD		14.62	
MPE-56	08-Dec-14	TBD		14.57	
MPE-57	18-Jun-10	TBD		--	
MPE-57	17-Aug-10	TBD		14.63	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-57	12-Nov-10	TBD		14.75	
MPE-57	03-Mar-11	TBD		14.67	
MPE-57	19-May-11	TBD		14.68	
MPE-57	25-Aug-11	TBD		15.09	
MPE-57	15-Nov-11	TBD		15.00	
MPE-57	29-Feb-12	TBD		14.14	
MPE-57	25-May-12	TBD		15.08	
MPE-57	14-Aug-12	TBD		15.10	
MPE-57	20-Nov-12	TBD		15.18	
MPE-57	21-Feb-13	TBD		14.97	
MPE-57	14-May-13	TBD		15.02	
MPE-57	14-Aug-13	TBD		15.33	
MPE-57	06-Jan-14	TBD		15.08	
MPE-57	21-Feb-14	TBD		14.98	
MPE-57	03-Jun-14	TBD		14.09	
MPE-57	27-Aug-14	TBD		15.31	
MPE-57	08-Dec-14	TBD		15.25	
Phase 4 Wells					
MPE-58	18-Jun-10	TBD		--	
MPE-58	17-Aug-10	TBD		14.86	
MPE-58	12-Nov-10	TBD		14.99	
MPE-58	03-Mar-11	TBD		15.06	
MPE-58	19-May-11	TBD		14.96	
MPE-58	25-Aug-11	TBD		15.27	
MPE-58	15-Nov-11	TBD		15.32	
MPE-58	29-Feb-12	TBD		15.09	
MPE-58	25-May-12	TBD		13.79	
MPE-58	14-Aug-12	TBD		15.34	
MPE-58	20-Nov-12	TBD		15.41	
MPE-58	21-Feb-13	TBD		15.21	
MPE-58	14-May-13	TBD		15.26	
MPE-58	14-Aug-13	TBD		15.56	
MPE-58	06-Jan-14	TBD		15.29	
MPE-58	21-Feb-14	TBD	15.18	15.20	0.02
MPE-58	03-Jun-14	TBD		15.20	
MPE-58	27-Aug-14	TBD		15.58	
MPE-58	08-Dec-14	TBD		15.47	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-59	25-May-12	TBD		14.08	
MPE-59	14-Aug-12	TBD		14.06	
MPE-59	20-Nov-12	TBD		14.12	
MPE-59	21-Feb-13	TBD		13.93	
MPE-59	14-May-13	TBD		13.99	
MPE-59	14-Aug-13	TBD		14.28	
MPE-59	06-Jan-14	TBD		13.99	
MPE-59	21-Feb-14	TBD		13.90	
MPE-59	02-Jun-14	TBD		13.90	
MPE-59	27-Aug-14	TBD		14.28	
MPE-59	08-Dec-14	TBD		14.18	
MPE-60	25-May-12	TBD		13.88	
MPE-60	14-Aug-12	TBD		14.34	
MPE-60	20-Nov-12	TBD		14.43	
MPE-60	21-Feb-13	TBD		14.22	
MPE-60	14-May-13	TBD		14.30	
MPE-60	14-Aug-13	TBD		14.58	
MPE-60	06-Jan-14	TBD		14.30	
MPE-60	21-Feb-14	TBD		14.21	
MPE-60	02-Jun-14	TBD		14.20	
MPE-60	27-Aug-14	TBD		14.57	
MPE-60	08-Dec-14	TBD		14.48	
MPE-61	25-May-12	TBD		14.13	
MPE-61	14-Aug-12	TBD		14.15	
MPE-61	20-Nov-12	TBD		14.25	
MPE-61	22-Feb-13	TBD		14.07	
MPE-61	14-May-13	TBD		14.14	
MPE-61	14-Aug-13	TBD		14.41	
MPE-61	06-Jan-14	TBD		14.13	
MPE-61	21-Feb-14	TBD		14.03	
MPE-61	02-Jun-14	TBD		14.01	
MPE-61	27-Aug-14	TBD		14.37	
MPE-61	08-Dec-14	TBD		14.31	
MPE-62	25-May-12	TBD	14.86	15.36	0.50
MPE-62	14-Aug-12	TBD		14.40	
MPE-62	20-Nov-12	TBD		14.31	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-62	22-Feb-13	TBD		14.13	
MPE-62	14-May-13	TBD		14.20	
MPE-62	14-Aug-13	TBD		14.49	
MPE-62	06-Jan-14	TBD		14.20	
MPE-62	21-Feb-14	TBD		14.10	
MPE-62	02-Jun-14	TBD		14.07	
MPE-62	27-Aug-14	TBD		14.43	
MPE-62	08-Dec-14	TBD		14.38	
MPE-63	25-May-12	TBD		15.34	
MPE-63	14-Aug-12	TBD	15.09	15.93	0.84
MPE-63	20-Nov-12	TBD	15.16	16.17	1.01
MPE-63	22-Feb-13	TBD	15.03	15.70	0.67
MPE-63	14-May-13	TBD	15.12	15.74	0.62
MPE-63	14-Aug-13	TBD	15.33	16.42	1.09
MPE-63	06-Jan-14	TBD	15.10	15.79	0.69
MPE-63	21-Feb-14	TBD	15.04	15.43	0.39
MPE-63	02-Jun-14	TBD	15.04	15.24	0.20
MPE-63	27-Aug-14	TBD	15.31	16.14	0.83
MPE-63	08-Dec-14	TBD	15.25	16.12	0.87
MPE-64	25-May-12	TBD	15.98	16.00	0.02
MPE-64	14-Aug-12	TBD	15.54	15.55	0.01
MPE-64	20-Nov-12	TBD		15.60	
MPE-64	22-Feb-13	TBD	15.42	15.51	0.09
MPE-64	14-May-13	TBD	15.46	15.66	0.20
MPE-64	14-Aug-13	TBD	15.60	16.64	1.04
MPE-64	06-Jan-14	TBD	15.45	15.91	0.46
MPE-64	21-Feb-14	TBD	15.37	15.56	0.19
MPE-64	02-Jun-14	TBD		15.35	
MPE-64	27-Aug-14	TBD	15.58	16.44	0.86
MPE-64	08-Dec-14	TBD	15.55	16.41	0.86
MPE-65	25-May-12	TBD		16.16	
MPE-65	14-Aug-12	TBD	16.28	16.31	0.03
MPE-65	20-Nov-12	TBD	16.28	16.54	0.26
MPE-65	22-Feb-13	TBD	16.18	16.24	0.06
MPE-65	14-May-13	TBD	16.19	16.25	0.06
MPE-65	14-Aug-13	TBD	16.42	16.75	0.33

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-65	06-Jan-14	TBD	16.21	16.55	0.34
MPE-65	21-Feb-14	TBD	16.15	16.22	0.07
MPE-65	02-Jun-14	TBD		16.10	
MPE-65	27-Aug-14	TBD	16.36	17.03	0.67
MPE-65	08-Dec-14	TBD	16.34	16.97	0.63
MPE-66	25-May-12	TBD	17.40	17.41	0.01
MPE-66	14-Aug-12	TBD	16.33	17.15	0.82
MPE-66	20-Nov-12	TBD	16.40	17.12	0.72
MPE-66	22-Feb-13	TBD	16.31	16.67	0.36
MPE-66	14-May-13	TBD	16.35	16.40	0.05
MPE-66	14-Aug-13	TBD	16.51	17.40	0.89
MPE-66	06-Jan-14	TBD	16.43	16.62	0.19
MPE-66	21-Feb-14	TBD		16.35	
MPE-66	02-Jun-14	TBD		16.27	
MPE-66	27-Aug-14	TBD	16.55	17.30	0.75
MPE-66	08-Dec-14	TBD	16.52	17.21	0.69
MPE-67	25-May-12	TBD		15.67	
MPE-67	14-Aug-12	TBD		17.71	
MPE-67	20-Nov-12	TBD		17.74	
MPE-67	22-Feb-13	TBD	17.60	17.65	0.05
MPE-67	14-May-13	TBD	17.48	18.08	0.60
MPE-67	14-Aug-13	TBD	17.75	18.73	0.98
MPE-67	06-Jan-14	TBD	16.60	17.33	0.73
MPE-67	21-Feb-14	TBD	17.53	17.88	0.35
MPE-67	02-Jun-14	TBD	17.50	17.61	0.11
MPE-67	27-Aug-14	TBD	17.84	18.47	0.63
MPE-67	08-Dec-14	TBD	17.76	18.56	0.80
MPE-68	14-Aug-12	TBD		16.09	
MPE-68	20-Nov-12	TBD		15.91	
MPE-68	22-Feb-13	TBD		15.69	
MPE-68	14-May-13	TBD	15.61	15.62	0.01
MPE-68	14-Aug-13	TBD		16.30	
MPE-68	06-Jan-14	TBD		15.85	
MPE-68	21-Feb-14	TBD		15.68	
MPE-68	02-Jun-14	TBD		15.61	
MPE-68	27-Aug-14	TBD		16.31	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-68	08-Dec-14	TBD		16.06	
MPE-69	14-Aug-12	TBD		15.50	
MPE-69	20-Nov-12	TBD		15.45	
MPE-69	22-Feb-13	TBD		15.28	
MPE-69	14-May-13	TBD		15.25	
MPE-69	14-Aug-13	TBD		15.71	
MPE-69	06-Jan-14	TBD		15.40	
MPE-69	21-Feb-14	TBD		15.24	
MPE-69	02-Jun-14	TBD		15.25	
MPE-69	27-Aug-14	TBD		15.70	
MPE-69	08-Dec-14	TBD		15.54	
MPE-70	14-Aug-12	TBD	15.67	16.01	0.34
MPE-70	20-Nov-12	TBD	15.65	16.40	0.75
MPE-70	22-Feb-13	TBD	15.52	16.25	0.73
MPE-70	14-May-13	TBD	15.60	16.15	0.55
MPE-70	14-Aug-13	TBD	15.80	16.68	0.88
MPE-70	06-Jan-14	TBD	15.67	16.12	0.45
MPE-70	21-Feb-14	TBD	15.61	15.71	0.10
MPE-70	02-Jun-14	TBD		15.55	
MPE-70	27-Aug-14	TBD	15.83	16.53	0.70
MPE-70	08-Dec-14	TBD	16.75	17.67	0.92
MPE-71	22-Jun-12	TBD	16.04	16.06	0.02
MPE-71	14-Aug-12	TBD	15.68	16.23	0.55
MPE-71	20-Nov-12	TBD	15.72	16.51	0.79
MPE-71	22-Feb-13	TBD	15.63	16.23	0.60
MPE-71	14-May-13	TBD	15.73	16.40	0.67
MPE-71	14-Aug-13	TBD	15.85	16.85	1.00
MPE-71	06-Jan-14	TBD	15.77	16.12	0.35
MPE-71	21-Feb-14	TBD	15.71	15.73	0.02
MPE-71	02-Jun-14	TBD		15.64	
MPE-71	27-Aug-14	TBD	15.92	16.21	0.29
MPE-71	09-Dec-14	TBD	15.92	16.34	0.42
MPE-72	22-Jun-12	TBD	15.79	16.76	0.97
MPE-72	14-Aug-12	TBD		16.29	
MPE-72	21-Nov-12	TBD		16.34	

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-72	22-Feb-13	TBD	16.21	16.22	0.01
MPE-72	14-May-13	TBD	16.25	16.68	0.43
MPE-72	14-Aug-13	TBD	16.50	16.89	0.39
MPE-72	06-Jan-14	TBD	16.26	16.40	0.14
MPE-72	21-Feb-14	TBD	16.15	16.28	0.13
MPE-72	02-Jun-14	TBD	16.11	16.15	0.04
MPE-72	27-Aug-14	TBD	16.44	16.70	0.26
MPE-72	09-Dec-14	TBD	16.43	16.53	0.10
MPE-73	22-Jun-12	TBD	14.68	15.65	0.97
MPE-73	13-Aug-12	TBD	16.59	17.93	1.34
MPE-73	20-Nov-12	TBD	16.00	17.52	1.52
MPE-73	22-Feb-13	TBD	15.90	17.02	1.12
MPE-73	14-May-13	TBD	16.06	16.12	0.06
MPE-73	14-Aug-13	TBD	16.21	18.09	1.88
MPE-73	06-Jan-14	TBD	15.98	17.04	1.06
MPE-73	21-Feb-14	TBD	15.92	16.69	0.77
MPE-73	02-Jun-14	TBD	15.90	16.50	0.60
MPE-73	27-Aug-14	TBD	16.10	17.64	1.54
MPE-73	09-Dec-14	TBD	16.08	17.54	1.46
MPE-74	22-Jun-12	TBD	13.68	14.56	0.88
MPE-74	13-Aug-12	TBD	14.86	15.72	0.86
MPE-74	20-Nov-12	TBD	14.91	16.20	1.29
MPE-74	22-Feb-13	TBD	14.80	15.80	1.00
MPE-74	14-May-13	TBD	14.88	15.48	0.60
MPE-74	14-Aug-13	TBD	15.27	16.28	1.01
MPE-74	06-Jan-14	TBD	14.91	15.73	0.82
MPE-74	21-Feb-14	TBD	14.83	15.47	0.64
MPE-74	03-Jun-14	TBD	14.82	15.36	0.54
MPE-74	27-Aug-14	TBD	15.09	16.09	1.00
MPE-74	09-Dec-14	TBD	15.05	16.02	0.97
MPE-75	22-Jun-12	TBD		12.91	
MPE-75	13-Aug-12	TBD	13.88	14.88	1.00
MPE-75	20-Nov-12	TBD	13.95	14.85	0.90
MPE-75	22-Feb-13	TBD	13.80	14.62	0.82
MPE-75	14-May-13	TBD	13.89	14.44	0.55
MPE-75	14-Aug-13	TBD	14.25	15.18	0.93

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-75	06-Jan-14	TBD	13.94	14.53	0.59
MPE-75	21-Feb-14	TBD	13.83	14.32	0.49
MPE-75	02-Jun-14	TBD	13.82	14.31	0.49
MPE-75	27-Aug-14	TBD	14.13	14.84	0.71
MPE-75	09-Dec-14	TBD	14.11	14.74	0.63
MPE-76	22-Jun-12	TBD		12.47	
MPE-76	13-Aug-12	TBD	13.03	13.37	0.34
MPE-76	20-Nov-12	TBD	13.12	13.40	0.28
MPE-76	22-Feb-13	TBD	13.01	13.03	0.02
MPE-76	14-May-13	TBD	13.07	13.22	0.15
MPE-76	14-Aug-13	TBD	13.29	13.85	0.56
MPE-76	06-Jan-14	TBD	13.03	13.18	0.15
MPE-76	21-Feb-14	TBD	12.95	13.02	0.07
MPE-76	02-Jun-14	TBD	12.93	13.05	0.12
MPE-76	27-Aug-14	TBD	13.16	13.85	0.69
MPE-76	09-Dec-14	TBD	13.16	13.56	0.40
MPE-77	22-Jun-12	TBD	11.33	11.36	0.03
MPE-77	13-Aug-12	TBD		12.65	
MPE-77	20-Nov-12	TBD		12.70	
MPE-77	22-Feb-13	TBD	12.53	12.67	0.14
MPE-77	14-May-13	TBD	12.59	12.73	0.14
MPE-77	14-Aug-13	TBD	12.85	13.15	0.30
MPE-77	06-Jan-14	TBD	12.55	12.77	0.22
MPE-77	21-Feb-14	TBD	12.47	12.64	0.17
MPE-77	02-Jun-14	TBD	12.48	12.58	0.10
MPE-77	27-Aug-14	TBD	12.82	12.94	0.12
MPE-77	09-Dec-14	TBD	12.75	12.85	0.10
MPE-78	22-Jun-12	TBD		11.33	
MPE-78	13-Aug-12	TBD	11.51	11.53	0.02
MPE-78	20-Nov-12	TBD		11.57	
MPE-78	22-Feb-13	TBD	11.37	11.60	0.23
MPE-78	14-May-13	TBD	11.40	11.74	0.34
MPE-78	14-Aug-13	TBD	11.61	12.41	0.80
MPE-78	06-Jan-14	TBD	11.43	11.56	0.13
MPE-78	21-Feb-14	TBD	11.35	11.46	0.11
MPE-78	02-Jun-14	TBD	11.37	11.42	0.05

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-78	27-Aug-14	TBD	11.64	12.09	0.45
MPE-78	09-Dec-14	TBD	11.61	11.73	0.12
Phase 5 Wells					
MPE-79	13-Aug-12	TBD		11.50	
MPE-79	20-Nov-12	TBD		11.49	
MPE-79	22-Feb-13	TBD		11.28	
MPE-79	14-May-13	TBD		11.35	
MPE-79	14-Aug-13	TBD		11.68	
MPE-79	06-Jan-14	TBD		11.25	
MPE-79	21-Feb-14	TBD		11.20	
MPE-79	02-Jun-14	TBD		11.29	
MPE-79	27-Aug-14	TBD		11.60	
MPE-79	09-Dec-14	TBD		11.45	
MPE-80	13-Aug-12	TBD		9.12	
MPE-80	20-Nov-12	TBD		9.15	
MPE-80	22-Feb-13	TBD		8.92	
MPE-80	14-May-13	TBD		9.00	
MPE-80	14-Aug-13	TBD		9.29	
MPE-80	06-Jan-14	TBD		8.84	
MPE-80	21-Feb-14	TBD		8.78	
MPE-80	02-Jun-14	TBD		8.86	
MPE-80	27-Aug-14	TBD		9.16	
MPE-80	09-Dec-14	TBD		8.97	
MPE-81	13-Aug-12	TBD		10.64	
MPE-81	20-Nov-12	TBD	10.69	11.67	0.98
MPE-81	22-Feb-13	TBD	10.57	11.14	0.57
MPE-81	14-May-13	TBD	10.61	11.27	0.66
MPE-81	14-Aug-13	TBD	10.79	12.08	1.29
MPE-81	06-Jan-14	TBD	10.58	11.00	0.42
MPE-81	21-Feb-14	TBD	10.51	10.86	0.35
MPE-81	02-Jun-14	TBD	10.56	11.00	0.44
MPE-81	27-Aug-14	TBD	10.82	11.51	0.69
MPE-81	09-Dec-14	TBD	10.72	11.25	0.53
MPE-82	13-Aug-12	TBD	10.89	11.65	0.76
MPE-82	20-Nov-12	TBD	11.04	11.38	0.34

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-82	22-Feb-13	TBD		10.90	
MPE-82	14-May-13	TBD	10.88	11.40	0.52
MPE-82	14-Aug-13	TBD	11.15	11.66	0.51
MPE-82	06-Jan-14	TBD		10.93	
MPE-82	21-Feb-14	TBD		10.79	
MPE-82	02-Jun-14	TBD		10.78	
MPE-82	27-Aug-14	TBD	11.12	11.34	0.22
MPE-82	09-Dec-14	TBD		11.12	
MPE-83	13-Aug-12	TBD		12.38	
MPE-83	20-Nov-12	TBD	12.43	12.49	0.06
MPE-83	22-Feb-13	TBD	12.16	12.75	0.59
MPE-83	14-May-13	TBD	12.21	12.98	0.77
MPE-83	14-Aug-13	TBD	12.50	13.47	0.97
MPE-83	06-Jan-14	TBD	12.20	12.79	0.59
MPE-83	21-Feb-14	TBD	12.14	12.58	0.44
MPE-83	02-Jun-14	TBD	12.14	12.49	0.35
MPE-83	27-Aug-14	TBD	12.50	12.76	0.26
MPE-83	09-Dec-14	TBD	12.36	13.04	0.68
MPE-84	20-Nov-12	TBD	17.65	18.63	0.98
MPE-84	22-Feb-13	TBD	17.54	18.43	0.89
MPE-84	14-May-13	TBD	17.67	18.62	0.95
MPE-84	14-Aug-13	TBD	Active MPE--NM		
MPE-84	06-Jan-14	TBD	15.98	16.46	0.48
MPE-84	21-Feb-14	TBD	15.91	16.23	0.32
MPE-84	02-Jun-14	TBD	15.93	16.02	0.09
MPE-84	27-Aug-14	TBD	16.11	17.09	0.98
MPE-84	09-Dec-14	TBD	16.10	16.90	0.80
MPE-85	20-Nov-12	TBD	15.84	16.99	1.15
MPE-85	22-Feb-13	TBD	15.71	16.71	1.00
MPE-85	14-May-13	TBD	15.93	16.70	0.77
MPE-85	14-Aug-13	TBD	Active MPE--NM		
MPE-85	06-Jan-14	TBD	15.83	16.59	0.76
MPE-85	21-Feb-14	TBD	15.74	16.40	0.66
MPE-85	02-Jun-14	TBD	15.77	16.16	0.39
MPE-85	27-Aug-14	TBD	16.01	16.93	0.92
MPE-85	09-Dec-14	TBD	15.98	16.89	0.91

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-86	20-Nov-12	TBD	17.25	17.94	0.69
MPE-86	22-Feb-13	TBD	17.16	17.39	0.23
MPE-86	14-May-13	TBD	17.31	17.65	0.34
MPE-86	14-Aug-13	TBD	Active MPE--NM		
MPE-86	06-Jan-14	TBD		17.30	
MPE-86	21-Feb-14	TBD		17.17	
MPE-86	02-Jun-14	TBD		17.15	
MPE-86	27-Aug-14	TBD	17.32	18.17	0.85
MPE-86	09-Dec-14	TBD	17.36	17.80	0.44
MPE-87	20-Nov-12	TBD		15.94	
MPE-87	22-Feb-13	TBD		15.79	
MPE-87	14-May-13	TBD		15.92	
MPE-87	14-Aug-13	TBD		16.20	
MPE-87	06-Jan-14	TBD		15.84	
MPE-87	21-Feb-14	TBD		15.74	
MPE-87	02-Jun-14	TBD		15.68	
MPE-87	27-Aug-14	TBD		16.03	
MPE-87	09-Dec-14	TBD		16.01	
MPE-88	20-Nov-12	TBD	13.64	14.80	1.16
MPE-88	22-Feb-13	TBD	13.55	14.45	0.90
MPE-88	14-May-13	TBD	13.59	14.11	0.52
MPE-88	14-Aug-13	TBD	13.78	15.01	1.23
MPE-88	06-Jan-14	TBD	13.67	14.40	0.73
MPE-88	21-Feb-14	TBD	13.61	14.02	0.41
MPE-88	02-Jun-14	TBD	13.57	13.83	0.26
MPE-88	27-Aug-14	TBD	13.79	14.80	1.01
MPE-88	09-Dec-14	TBD	13.76	14.81	1.05
MPE-89	20-Nov-12	TBD		14.85	
MPE-89	22-Feb-13	TBD	14.62	14.86	0.24
MPE-89	14-May-13	TBD	14.70	15.45	0.75
MPE-89	14-Aug-13	TBD	14.78	16.00	1.22
MPE-89	06-Jan-14	TBD	14.69	15.26	0.57
MPE-89	21-Feb-14	TBD	14.63	14.83	0.20
MPE-89	02-Jun-14	TBD	14.60	14.64	0.04
MPE-89	27-Aug-14	TBD	14.81	15.81	1.00

TABLE 4
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-89	09-Dec-14	TBD	14.76	15.75	0.99
MPE-90	20-Nov-12	TBD	14.81	15.49	0.68
MPE-90	22-Feb-13	TBD	14.62	15.52	0.90
MPE-90	14-May-13	TBD	14.63	15.58	0.95
MPE-90	14-Aug-13	TBD	14.88	16.23	1.35
MPE-90	06-Jan-14	TBD	14.79	15.37	0.58
MPE-90	21-Feb-14	TBD	14.70	15.01	0.31
MPE-90	02-Jun-14	TBD	14.65	14.98	0.33
MPE-90	27-Aug-14	TBD	14.88	16.41	1.53
MPE-90	09-Dec-14	TBD	14.85	15.85	1.00

Figures

FIGURE 1

GENERAL SITE PLAN
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

AERIAL SOURCE: © 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE: APRIL 4, 2013.

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 4, 2015
CHECKED BY:	**DATE CHECKED:**
B. Everett	May 4, 2015
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 4, 2015

LEGEND

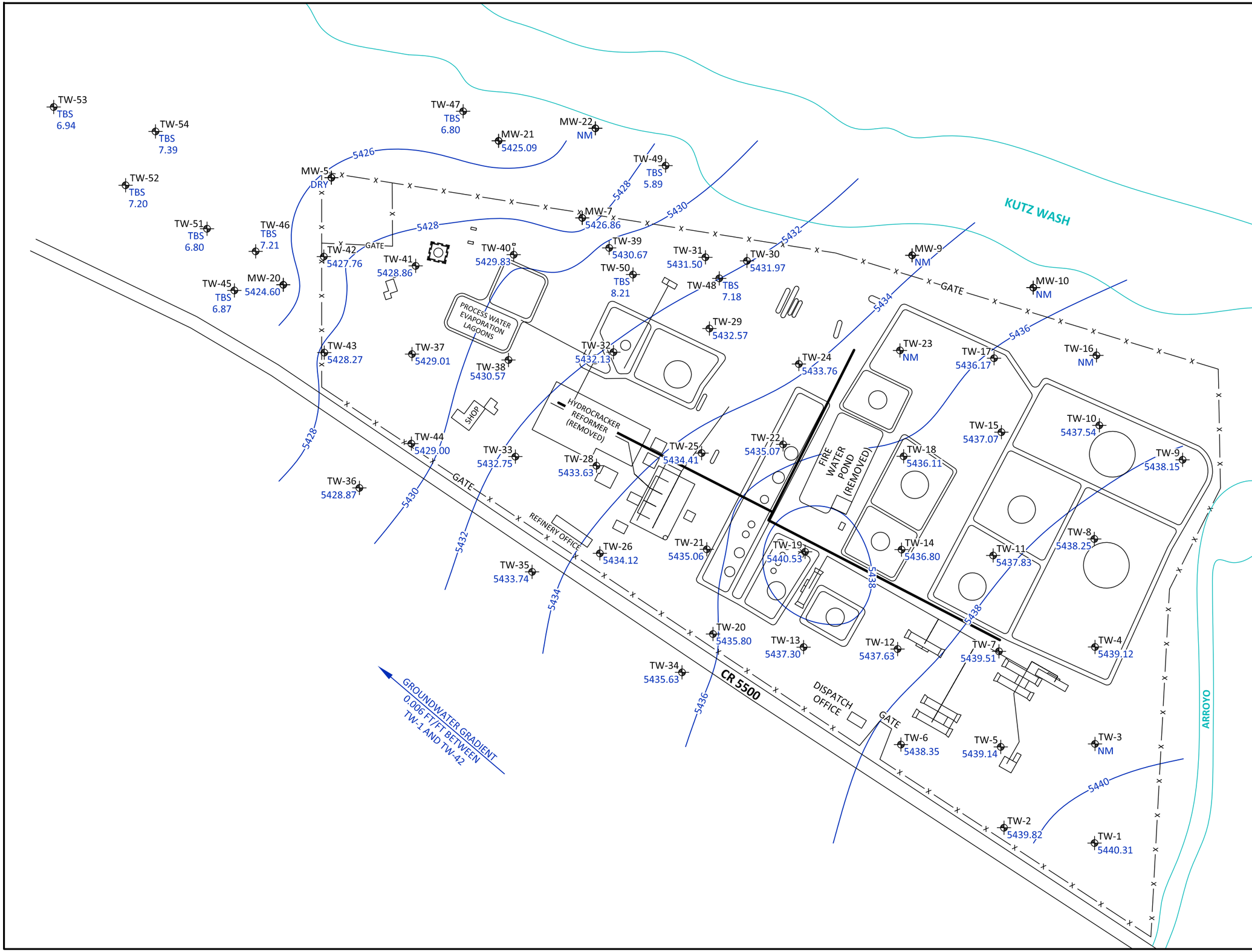
MONITOR WELL LOCATIONS

N

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

FIGURE 2

GROUNDWATER ELEVATION CONTOURS
FEBRUARY 2014
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: May 14, 2013
REVISIONS BY: C. Lameman	DATE REVISED: May 4, 2015
CHECKED BY: B. Everett	DATE CHECKED: May 4, 2015
APPROVED BY: E. McNally	DATE APPROVED: May 4, 2015

LEGEND

- MONITOR WELL LOCATIONS
- 5440.31 GROUNDWATER ELEVATION IN FEET (AMSL)
- —5434— GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)

NOTE: GROUNDWATER MEASUREMENTS WERE MADE ON FEBRUARY 14, 19, AND 21, 2014. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

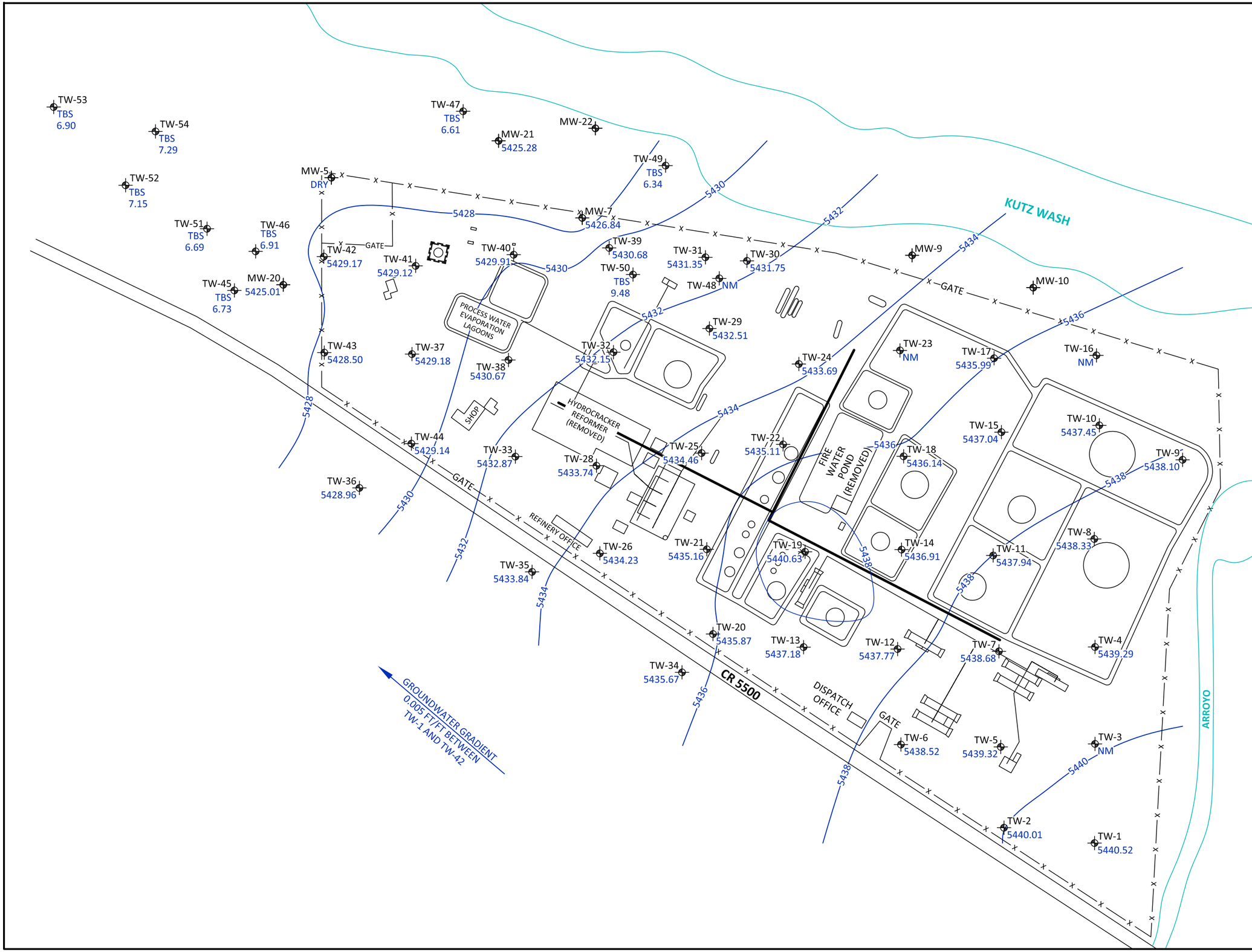


FIGURE 3

GROUNDWATER ELEVATION CONTOURS
MAY 2014
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 4, 2015
CHECKED BY:	**DATE CHECKED:**
B. Everett	May 4, 2015
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 4, 2015

LEGEND

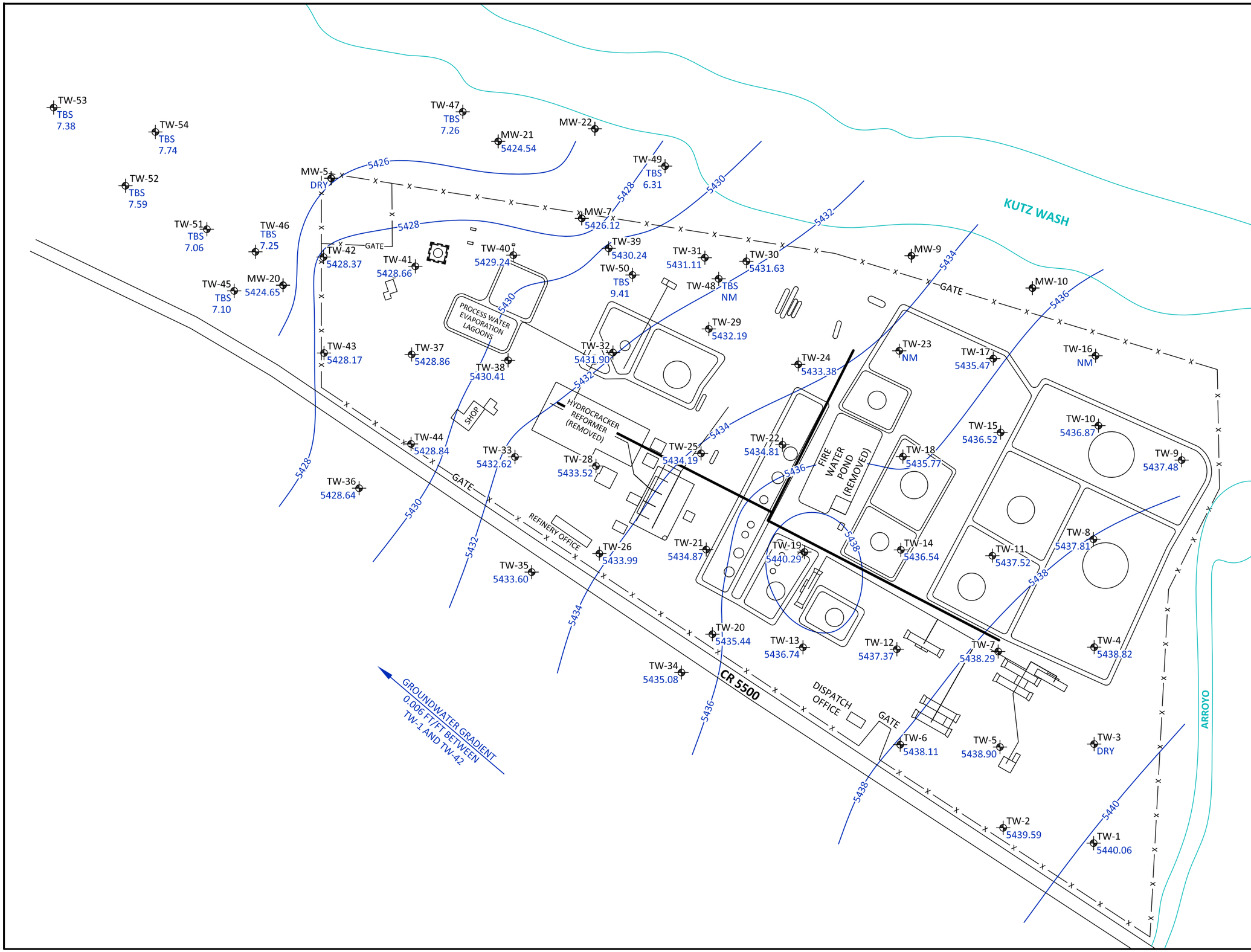
- MONITOR WELL LOCATIONS
- 5438.10 GROUNDWATER ELEVATION IN FEET (AMSL)
- —5434— GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)
- TBS TO BE SURVEYED

NOTE: GROUNDWATER MEASUREMENTS WERE MADE ON MAY 21 AND 28, 2014. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

FIGURE 4

GROUNDWATER ELEVATION CONTOURS
AUGUST 2014
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 4, 2015
CHECKED BY:	**DATE CHECKED:**
B. Everett	May 4, 2015
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 4, 2015

LEGEND

- MONITOR WELL LOCATIONS
- 5440.06 GROUNDWATER ELEVATION IN FEET (AMSL)
- —5434— GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)
- TBS TO BE SURVEYED

NOTE: GROUNDWATER MEASUREMENTS WERE MADE ON AUGUST 5, 2014. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

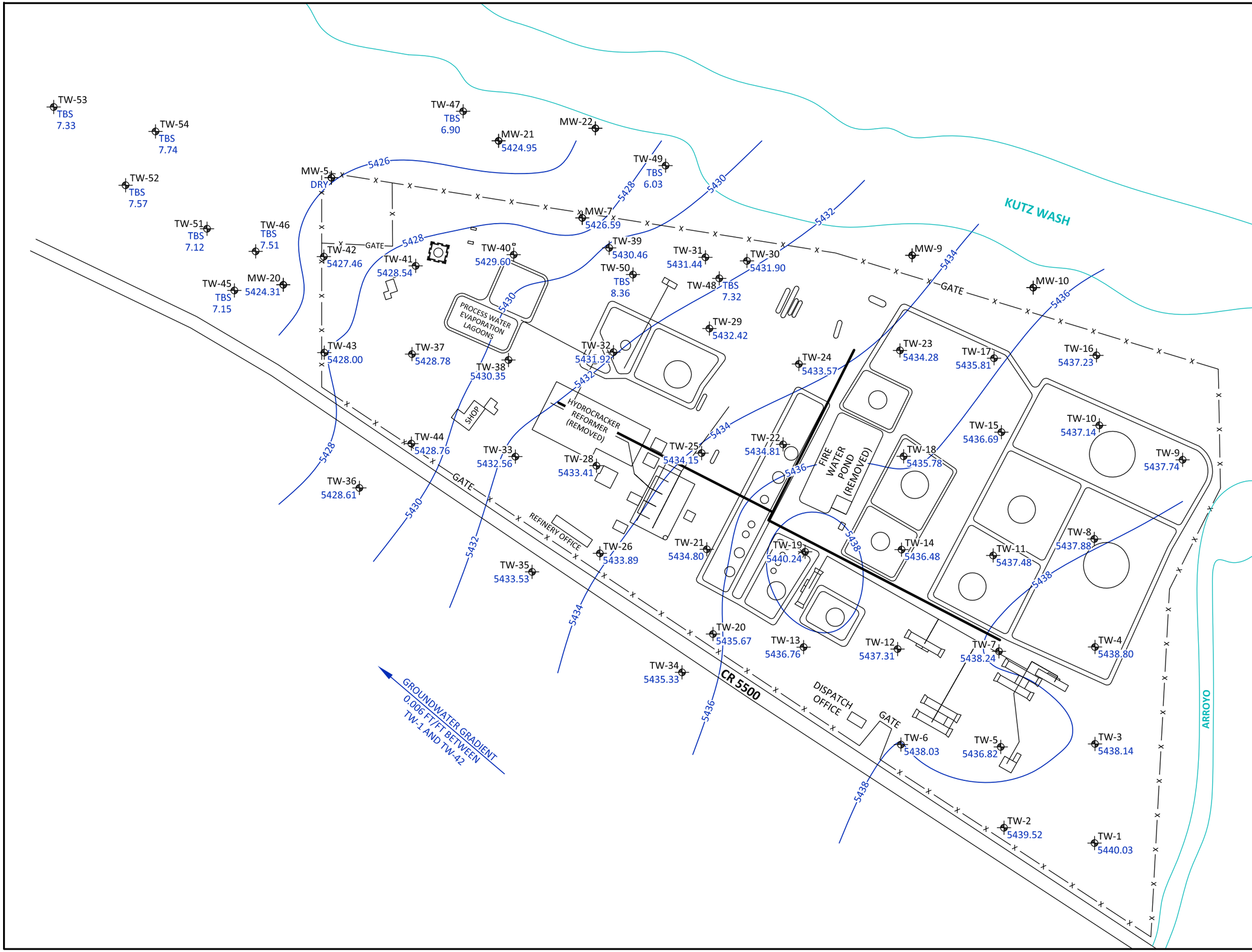


FIGURE 5

GROUNDWATER ELEVATION CONTOURS
DECEMBER 2014
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 4, 2015
CHECKED BY:	**DATE CHECKED:**
B. Everett	May 4, 2015
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 4, 2015

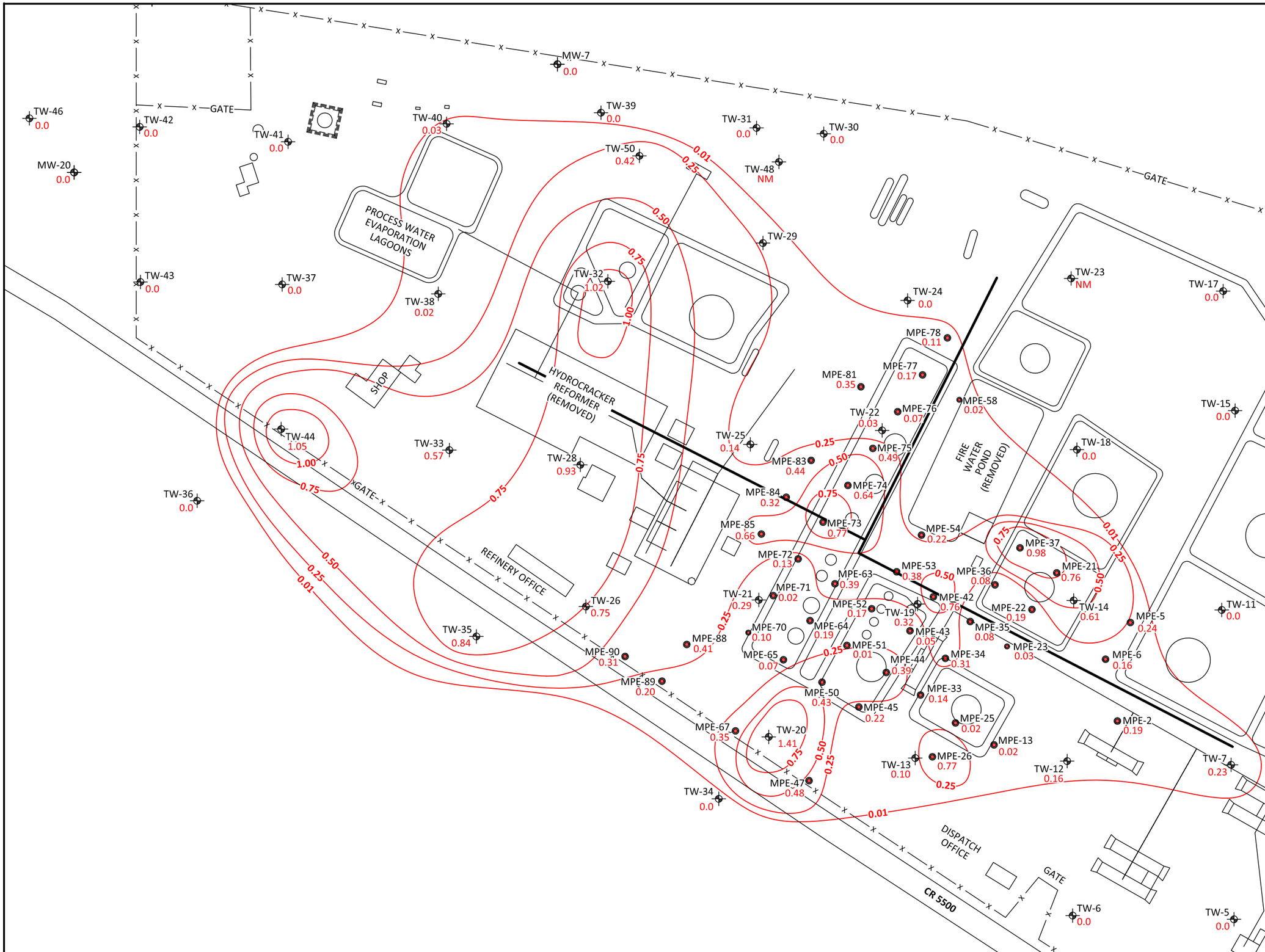
LEGEND

- MONITOR WELL LOCATIONS
- 5438.80 GROUNDWATER ELEVATION IN FEET (AMSL)
- —5434— GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)
- TBS TO BE SURVEYED

NOTE: GROUNDWATER MEASUREMENTS WERE MADE ON DECEMBER 5 AND 10, 2014. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

FIGURE 6

FREE PRODUCT THICKNESS CONTOURS
FEBRUARY 2014
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 4, 2015
CHECKED BY:	**DATE CHECKED:**
B. Everett	May 4, 2015
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 4, 2015

LEGEND

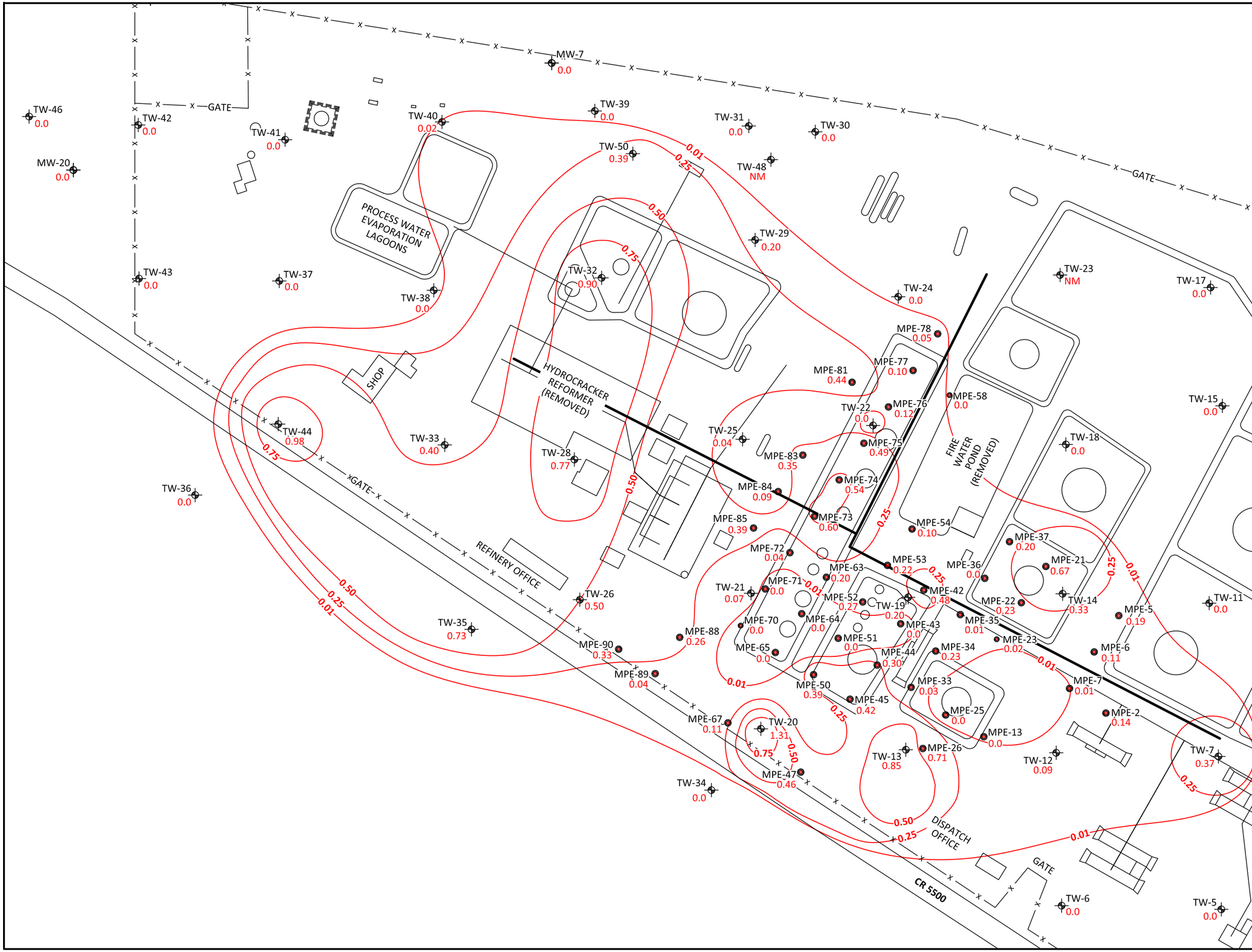
- MONITOR WELL LOCATIONS
- MPE REMEDIATION WELL
- 0.98 FREE PRODUCT THICKNESS IN FEET
- —0.50— FREE PRODUCT THICKNESS CONTOUR IN FEET

NOTE: ALL MEASUREMENTS WERE MADE ON FEBRUARY 14, 19, AND 21, 2014. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

FIGURE 7

FREE PRODUCT THICKNESS CONTOURS
MAY 2014
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 4, 2015
CHECKED BY:	**DATE CHECKED:**
B. Everett	May 4, 2015
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 4, 2015

LEGEND

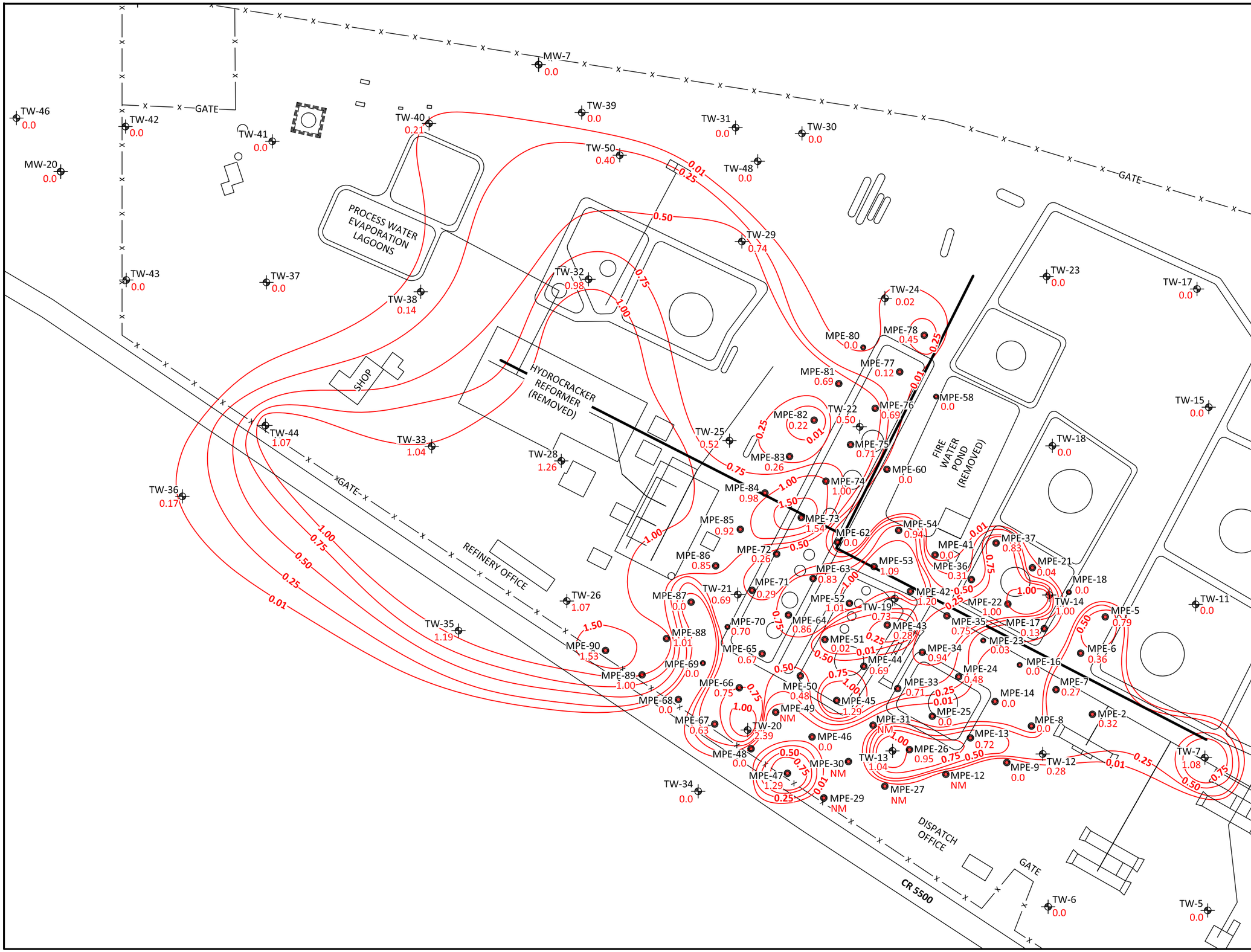
- MONITOR WELL LOCATIONS
- MPE REMEDIATION WELL
- 0.19 FREE PRODUCT THICKNESS IN FEET
- —0.50— FREE PRODUCT THICKNESS CONTOUR IN FEET

NOTE: ALL MEASUREMENTS WERE MADE ON MAY 21 AND 28, 2014. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

FIGURE 8

FREE PRODUCT THICKNESS CONTOURS
AUGUST 2014
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

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REVISIONS BY: C. Lameman	DATE REVISED: May 4, 2015
CHECKED BY: B. Everett	DATE CHECKED: May 4, 2015
APPROVED BY: E. McNally	DATE APPROVED: May 4, 2015

LEGEND

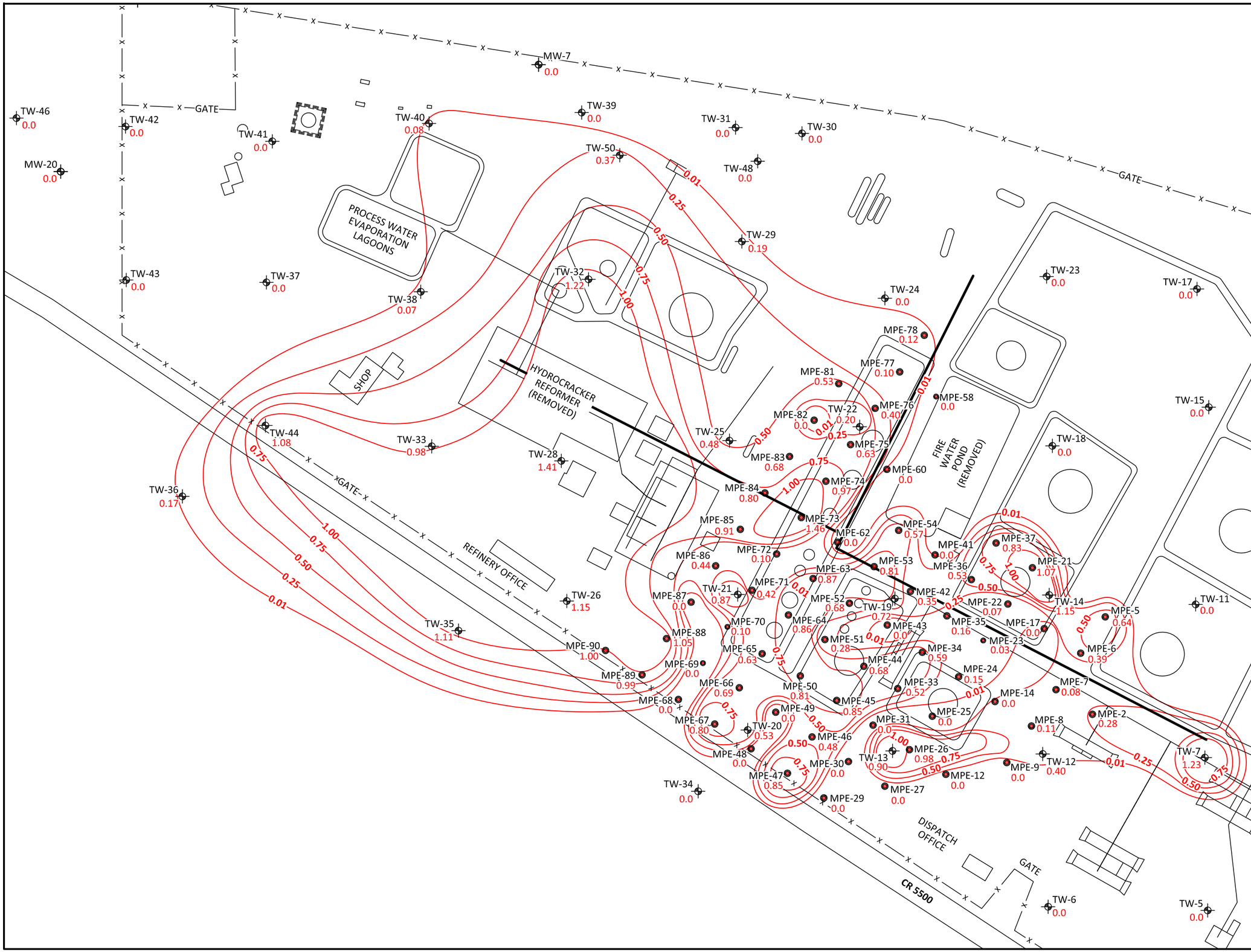
- MONITOR WELL LOCATIONS
- MPE REMEDIATION WELL
- 1.08 FREE PRODUCT THICKNESS IN FEET
- —0.50— FREE PRODUCT THICKNESS CONTOUR IN FEET

NOTE: ALL MEASUREMENTS WERE MADE ON AUGUST 5, 2014. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

FIGURE 9

FREE PRODUCT THICKNESS CONTOURS
DECEMBER 2014
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

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REVISIONS BY: C. Lameman	DATE REVISED: May 4, 2015
CHECKED BY: B. Everett	DATE CHECKED: May 4, 2015
APPROVED BY: E. McNally	DATE APPROVED: May 4, 2015

LEGEND

- MONITOR WELL LOCATIONS
- MPE REMEDIATION WELL
- 1.23 FREE PRODUCT THICKNESS IN FEET
- —0.50— FREE PRODUCT THICKNESS CONTOUR IN FEET

NOTE: ALL MEASUREMENTS WERE MADE ON DECEMBER 5 AND 10, 2014. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

FIGURE 10

DISSOLVED BENZENE CONCENTRATION CONTOURS MAY 2014

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: May 14, 2013
REVISIONS BY: C. Lameman	DATE REVISED: May 4, 2015
CHECKED BY: B. Everett	DATE CHECKED: May 4, 2015
APPROVED BY: E. McNally	DATE APPROVED: May 4, 2015

LEGEND

- MONITOR WELL LOCATIONS
- 1.4 DISSOLVED BENZENE CONCENTRATIONS
- —10— DISSOLVED BENZENE CONCENTRATION CONTOURS
- NAPL PLUME

NOTE: ALL SAMPLES WERE COLLECTED ON MAY 29 AND 30, 2014. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS µg/L (PPB). LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

FIGURE 11

DISSOLVED MTBE CONCENTRATION CONTOURS MAY 2014

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 4, 2015
CHECKED BY:	**DATE CHECKED:**
B. Everett	May 4, 2015
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 4, 2015

LEGEND

- MONITOR WELL LOCATIONS
- 310 DISSOLVED MTBE CONCENTRATIONS
- —100— DISSOLVED MTBE CONCENTRATION CONTOURS
- NAPL PLUME

NOTE: ALL SAMPLES WERE COLLECTED ON MAY 29 AND 30, 2014. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS µg/L (PPB). LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

FIGURE 12

DISSOLVED BENZENE CONCENTRATION CONTOURS DECEMBER 2014
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 4, 2015
CHECKED BY:	**DATE CHECKED:**
B. Everett	May 4, 2015
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 4, 2015

LEGEND

- MONITOR WELL LOCATIONS
- 1.4 DISSOLVED BENZENE CONCENTRATIONS
- —10— DISSOLVED BENZENE CONCENTRATION CONTOURS
- NAPL PLUME

NOTE: ALL SAMPLES WERE COLLECTED ON DECEMBER 10, 11 AND 12, 2014. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS µg/L (PPB). LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

FIGURE 13

DISSOLVED MTBE CONCENTRATION CONTOURS DECEMBER 2014

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: May 14, 2013
REVISIONS BY: C. Lameman	DATE REVISED: May 4, 2015
CHECKED BY: B. Everett	DATE CHECKED: May 4, 2015
APPROVED BY: E. McNally	DATE APPROVED: May 4, 2015

LEGEND

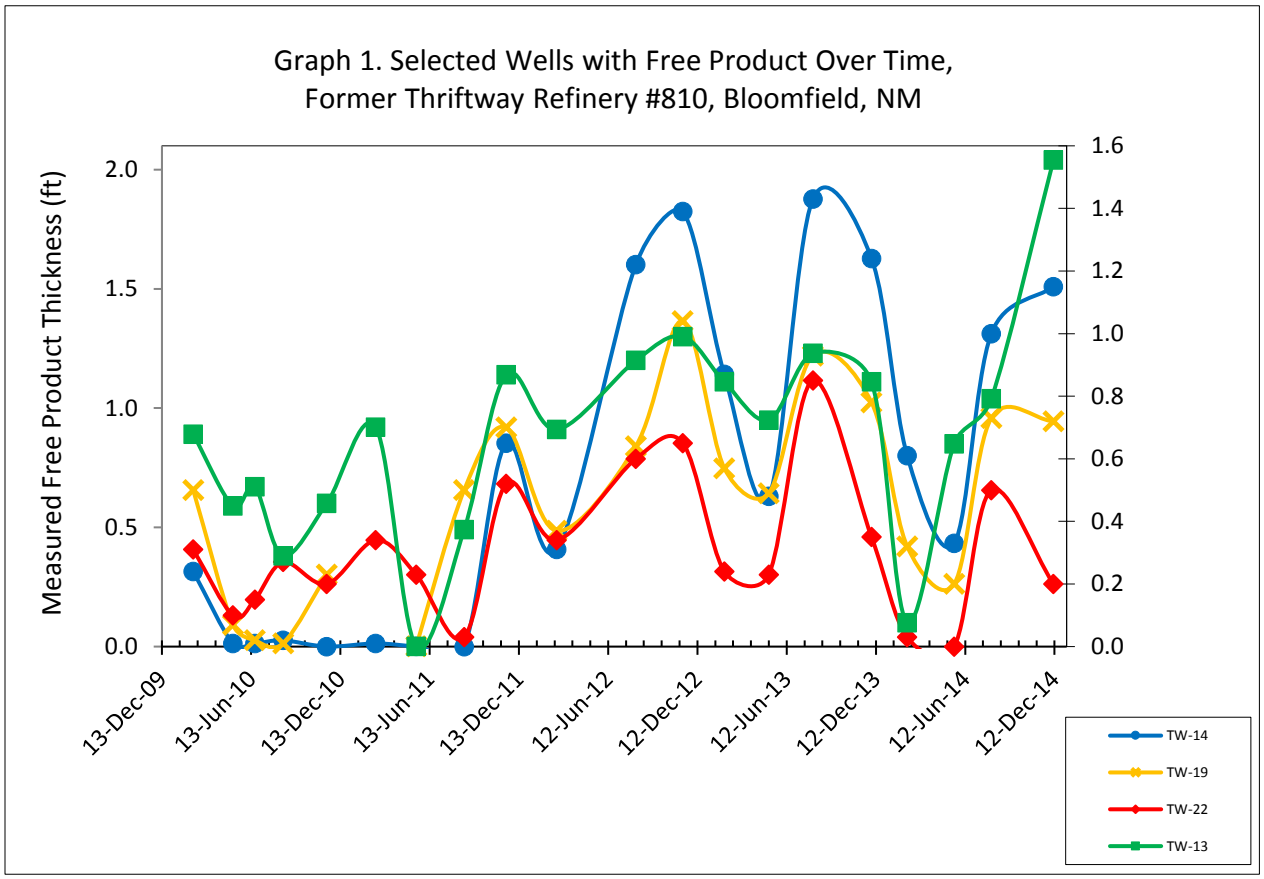
- MONITOR WELL LOCATIONS
- 310 DISSOLVED MTBE CONCENTRATIONS
- —100— DISSOLVED MTBE CONCENTRATION CONTOURS
- NAPL PLUME

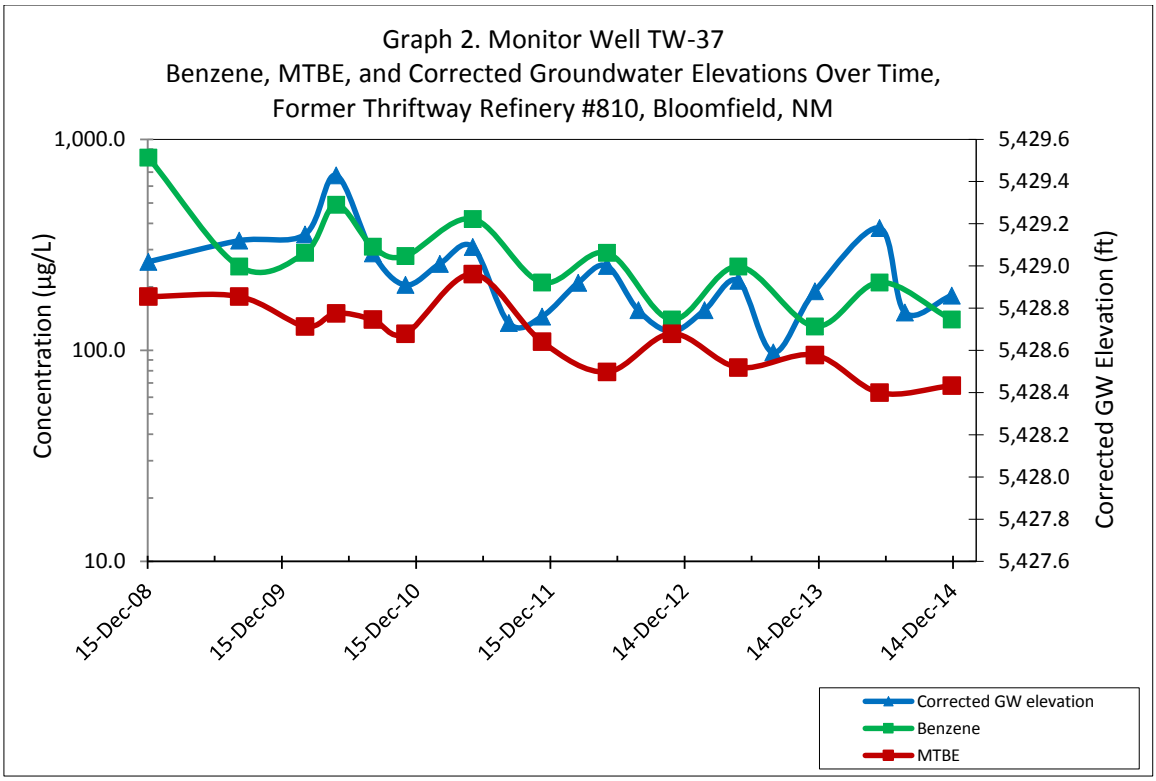
NOTE: ALL SAMPLES WERE COLLECTED ON DECEMBER 10, 11, AND 12, 2014. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS µg/L (PPB). LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

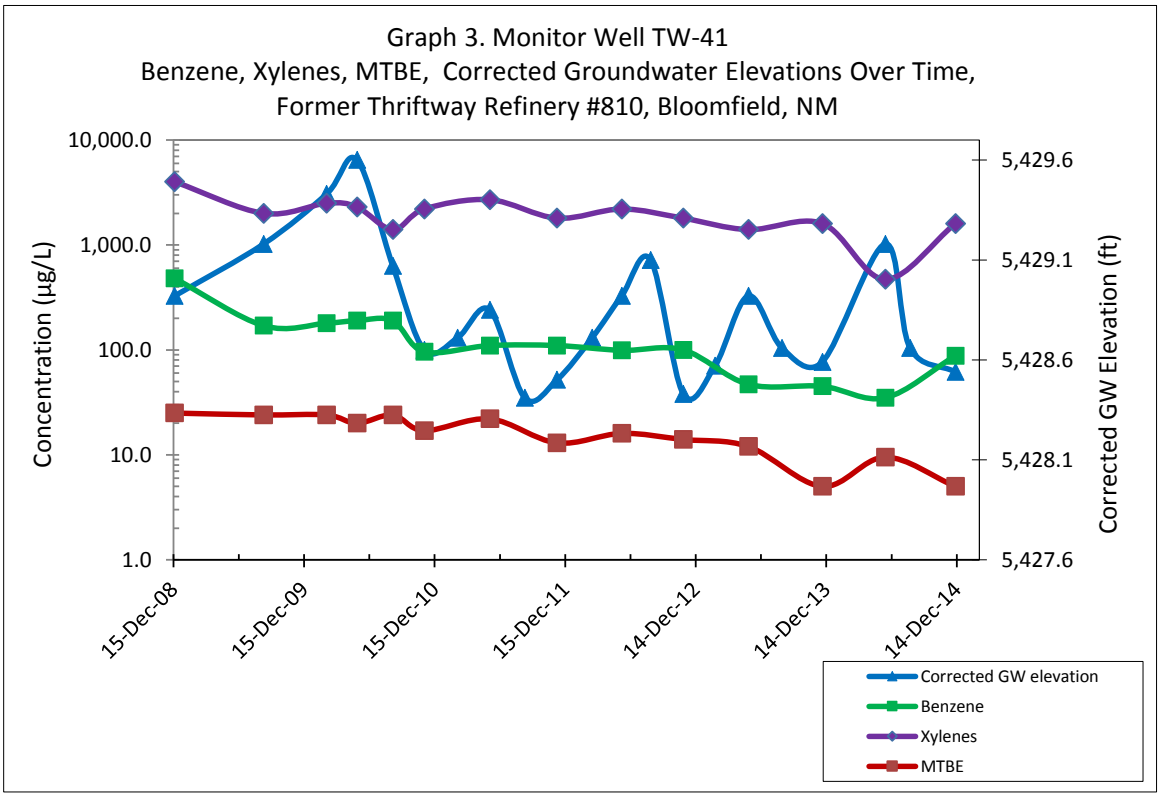
N

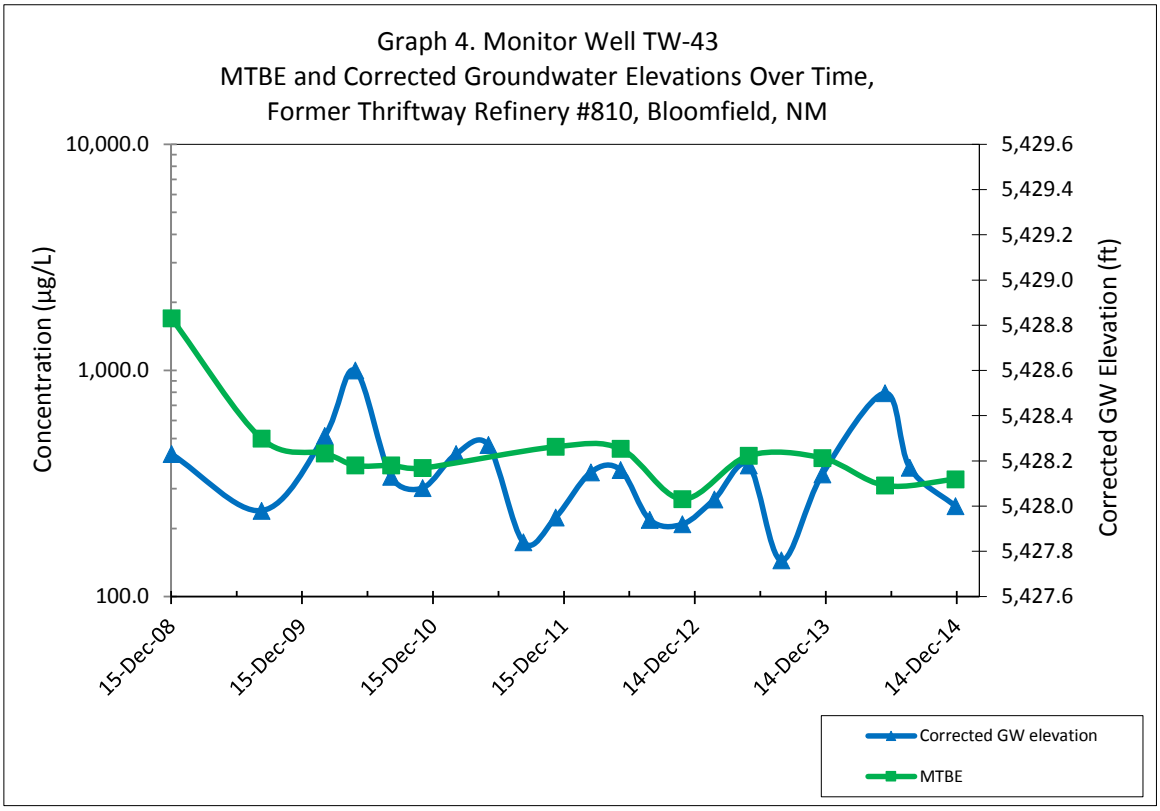
SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

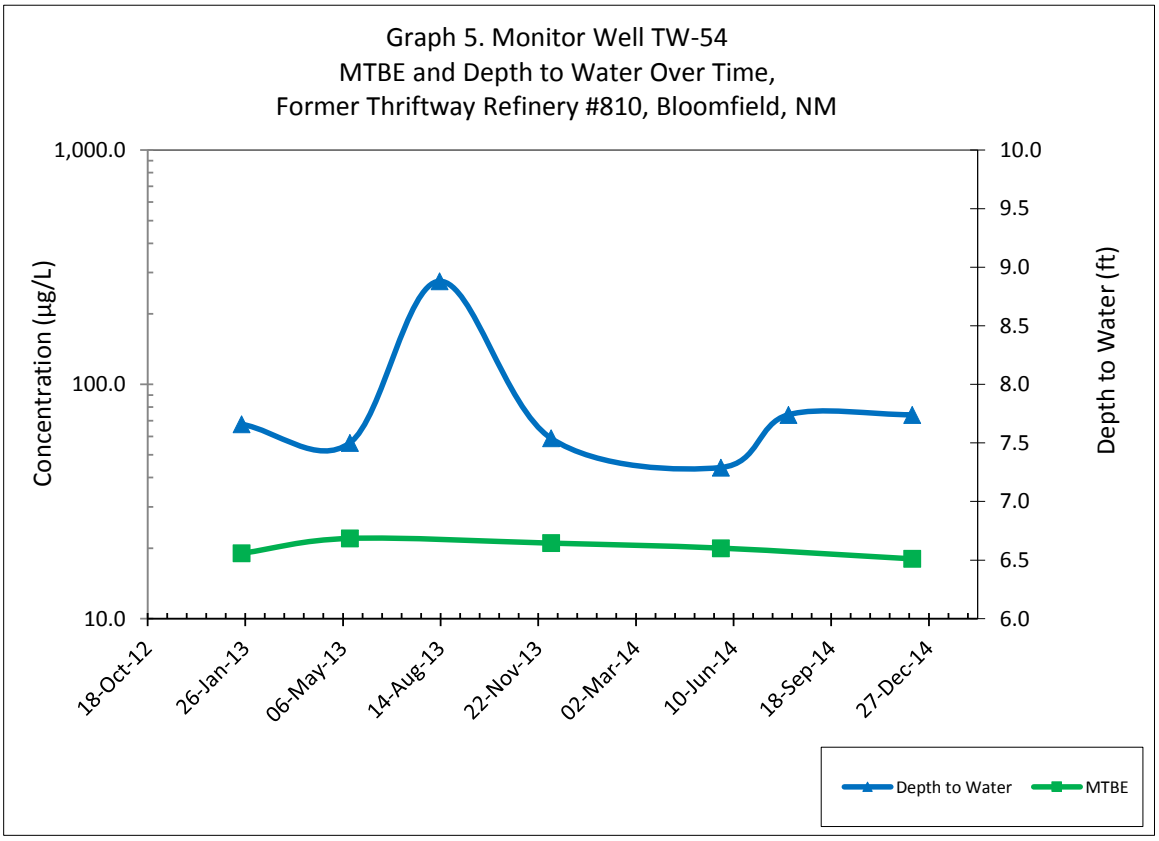
Graphs


Graph 1. Selected Wells with Free Product Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Measured Free Product Thickness (ft)
2.0
1.5
1.0
0.5
0.0
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
13-Dec-09
13-Jun-10
13-Dec-10
13-Jun-11
13-Dec-11
12-Jun-12
12-Dec-12
12-Jun-13
12-Dec-13
12-Jun-14
12-Dec-14
TW-14
TW-19
TW-22
TW-13


Graph 2. Monitor Well TW-37
Benzene, MTBE, and Corrected Groundwater Elevations Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Concentration (µg/L)
1,000.0
100.0
10.0
Corrected GW Elevation (ft)
5,429.6
5,429.4
5,429.2
5,429.0
5,428.8
5,428.6
5,428.4
5,428.2
5,428.0
5,427.8
5,427.6
15-Dec-08
15-Dec-09
15-Dec-10
15-Dec-11
14-Dec-12
14-Dec-13
14-Dec-14
Corrected GW elevation
Benzene
MTBE


Graph 3. Monitor Well TW-41
Benzene, Xylenes, MTBE, Corrected Groundwater Elevations Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Concentration (µg/L)
10,000.0
1,000.0
100.0
10.0
1.0
Corrected GW Elevation (ft)
5,429.6
5,429.1
5,428.6
5,428.1
5,427.6
15-Dec-08
15-Dec-09
15-Dec-10
15-Dec-11
14-Dec-12
14-Dec-13
14-Dec-14
Corrected GW elevation
Benzene
Xylenes
MTBE


Graph 4. Monitor Well TW-43
MTBE and Corrected Groundwater Elevations Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Concentration (µg/L)
10,000.0
1,000.0
100.0
Corrected GW Elevation (ft)
5,429.6
5,429.4
5,429.2
5,429.0
5,428.8
5,428.6
5,428.4
5,428.2
5,428.0
5,427.8
5,427.6
15-Dec-08
15-Dec-09
15-Dec-10
15-Dec-11
14-Dec-12
14-Dec-13
14-Dec-14
Corrected GW elevation
MTBE


Graph 5. Monitor Well TW-54
MTBE and Depth to Water Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Concentration (µg/L)
1,000.0
100.0
10.0
Depth to Water (ft)
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
18-Oct-12
26-Jan-13
06-May-13
14-Aug-13
22-Nov-13
02-Mar-14
10-Jun-14
18-Sep-14
27-Dec-14
Depth to Water
MTBE

Appendix

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 2-14-14 (START)
Time: 13:00
Form: 1 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-1	13:22		31.27'	–	
TW-2	13:26		29.49'		
TW-3	13:31		NM		Rooted in @ 28'
TW-4	13:38		19.60'		
TW-5	13:45		26.04'		
TW-6	13:49		25.22'		
TW-7	13:55	22.62'	22.85'		
TW-8	14:03		20.01'		
TW-9	14:14		12.46'		
TW-10	14:20		12.62'		
TW-11	14:30		18.48'		
TW-12	14:37	22.78	22.94'		
TW-13	15:00	20.85	20.95		
2-19 TW-14	08:55	17.33	17.94		
TW-15	09:07		13.37		
TW-16	09:10		NM		Rooted in @ 11'
TW-17	09:13		10.07'		
TW-18	09:20		16.62'		
TW-19	09:30	17.90	18.22		
TW-20	09:39	17.70	19.11		
TW-21	09:44	16.74	17.03		
TW-22	09:50	15.11	15.14		
TW-23	09:52		NM		Rooted in
TW-24	09:55		11.03'		
TW-25	09:58	14:37	14.51'		
TW-26	10:27	16.09	16.84'		
TW-28	10:33	15.45	16.38'		
TW-29	10:41		9.30'		
TW-30	10:46		5.96		
TW-31	10:50		7.04'		
TW-32	10:58	9.30'	10.32'		
TW-33	11:07	~~13.88'~~	13.57		
TW-34	11:20		20.17		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 7-19-14
Time:
Form: 2 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-35	11:25	15.25'	16.09'		
TW-36	11:32	~~13~~	13.04'		
TW-37	11:40		10.58'		
TW-38	11:48	11.54'	11.56'		
TW-39	11:56		7.76'		
TW-40	12:00	7.66	7.69'		
TW-41	14:37		5.91'		
TW-42	14:45		6.00'		
TW-43	14:52		12.18'		
TW-44	14:57	14.90	15.95'		
TW-45	15:32		6.87'		
TW-46	15:35		7.21'		
TW-47	15:44		6.80'		
TW-48	15:07		7.18'		
TW-49	15:53		5.89		
TW-50	15:20	~~7.02~~ ~~8.67~~ 7.82	8.21		
TW-51	15:59		6.80'		
TW-52	16:02		7.20'		
TW-53	16:05		6.94'		
TW-54	16:09		7.39		
MW-5			Dry		
MW-7			8.42'		
MW-20	15:37		5.85'		
MW-21	15:46		3.53'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 2-21-14
Time: 09:00
Form: 3 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-1	09:04		24.07'		
MPE-2	09:06	21.92'	22.11'		
MPE-3	09:07		21.23'		
MPE-4	09:09		20.41'		
MPE-5	09:11	19.71'	19.95'		
MPE-6	09:12	20.07	20.23'		
MPE-7	09:25		20.90'		
MPE-8	09:27		22.19'		
MPE-9	09:29		23.90		
MPE-10	09:30		23.69'		
MPE-11	09:32		NM		Rooted in @ 21.6'
MPE-12	09:34		NM		" 22.6'
MPE-13	09:35	23.13'	23.15'		
MPE-14	09:37		23.23'		
MPE-16	09:38		20.35'		
MPE-17	09:44		20.54'		
MPE-18	09:45		19.66'		
MPE-19	09:46		19.37		
MPE-20	09:47		19.13'		
MPE-21	09:49	20.70'	20.96'		
MPE-22	09:51	21.10'	21.29'		
MPE-23	09:53	21.16'	21.19'		
MPE-24	09:55		23.10'		
MPE-25	09:56	23.43	23.45'		
MPE-26	09:58	23.12'	23.89'		
MPE-27	09:59		NM		Rooted in @ 22'
MPE-28	10:00		NM		" 22'
MPE-29	10:02		NM		21.6
MPE-30	10:03		NM		21.3'
MPE-31	10:05		22.81'		
MPE-33	10:07	22.70'	22.84'		
MPE-34	10:08	22.50'	22.81'		
MPE-35	10:09	21.08	21.16'		
MPE-36	10:11	20.26'	20.34		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date:
Time:
Form: 4 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-37	10:13	20.45	21.43		
MPE-38	10:15		20.20'		
MPE-39	10:27		17.77'		
MPE-40	10:28		17.97		
MPE-41	10:29		18.65'		
MPE-42	10:31	19.26'	20.02'		
MPE-43	10:32	20.24'	20.29'		
MPE-44	10:35	20.36'	20.75		
MPE-45	10:36	20.53'	20.75'		
MPE-46	10:37		21.65'		
MPE-47	10:40	21.05'	21.51'		
MPE-48	10:41		NM		Routed in @ 20.01
MPE-49	10:43		19.50'		
MPE-50	10:44	20.64'	21.07'		
MPE-51	10:46	21.15'	21.16'		
MPE-52	10:47	20.94'	21.11'		
MPE-53	10:49	19.65	20.03'		
MPE-54	10:51	19.37'	19.59'		
MPE-55	11:00		18.85'		
MPE-56	11:02		14.28'		
MPE-57	11:04		14.98'		
MPE-58	11:05	15.18'	15.20'		
MPE-59	11:07		13.90'		
MPE-60	11:08		14.21'		
MPE-61	11:09		14.03'		
MPE-62	11:10		14.10'		
MPE-63	11:12	15.04'	15.43'		
MPE-64	11:14	15.37	15.56		
MPE-65	11:15	16.15'	16.22'		
MPE-66	11:17		16.35		
MPE-67	11:18	17.53	17.88'		
MPE-68	11:20		15.68'		
MPE-69	11:22		15.24'		
MPE-70	11:24	15.61'	15.71'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date:
Time:
Form: 5 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-71	11:26	15.71	15.73		
MPE-72	11:28	16.15'	16.28'		
MPE-73	11:29	15.92	16.69'		
MPE-74	11:30	14.83	15.47'		
MPE-75	11:32	13.83	14.32'		
MPE-76	11:33	12.95	13.02		
MPE-77	11:35	12.47	12.64'		
MPE-78	11:36	11.35	11.46'		
MPE-79	11:37		11.20'		
MPE-80	11:39		8.78		
MPE-81	11:41	10.51	10.86		
MPE-82	11:43		10.79'		
MPE-83	11:44	12.14	12.58		
MPE-84	11:45	15.91	16.23'		
MPE-85	11:46	15.74	16.40		
MPE-86	11:48		17.17'		
MPE-87	11:50		15.74'		
MPE-88	11:52	13.61	14.02		
MPE-89	11:53	14.63	14.83'		
MPE-90	11:55	14.70	15.01'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 5-21-14
Time:
Form: 1 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
5/21 TW-1	11:20		31.06'		
TW-2	11:26		29.30'		
TW-3	11:30		—		Rooted in @ 28'
TW-4	12:05		19.43'		
TW-5	~~12:11~~ 12:23		~~19.96'~~ 25.86'		
TW-6	12:32		25.05'		
TW-7	12:38	22.43	22.80'	.37'	
TW-8	12:11		19.96'		
TW-9	12:46		12.51'		
TW-10	12:20		12.71'		
TW-11	13:05		18.37'		
TW-12	13:10	22.65'	22.74'	0.09'	
TW-13	13:15	20.84'	21.69'	0.85'	
TW-14	13:19	17.27	17.60'	.33'	
TW-15	13:30		13.40'		
TW-16	13:34		—		Rooted in @
TW-17	13:36		10.25'		
TW-18	13:45		16.59'		
TW-19	13:50	17.83	18.03'	0.20'	
TW-20	13:58	17.64	18.95'	1.31'	
TW-21	14:10	16.68	16.75	0.07'	
TW-22	14:16		15.08'		
TW-23			—		Rooted in
TW-24	14:20		11.10'		
TW-25	14:23	14:33	14.37'	0.04'	
TW-26	14:31	16.02	16.52	0.50'	
TW-28	14:35	15.37	16.14'	0.77'	
TW-29	14:44	9.33'	9.53'	0.20'	
TW-30	14:47		6.18'		
TW-31	14:50		7.19'		
TW-32	14:56	9.30	10.20'	0.90'	
TW-33	15:00	12.91'	13.31'	0.40'	
5-28 TW-34	10:00		20.13'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 5-28-14
Time:
Form: 2 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-35	10:10	15.17	15.90'		
TW-36	10:16		12.95'		
TW-37	11:15		10.41'		
TW-38	11:20		11.44'		
TW-39	11:30		7.75		
TW-40	11:37	7.59'	7.61'		
TW-41	11:45		5.65'		
TW-42	11:55		4.59'		
TW-43	12:00		11.92'		
TW-44	12:04	14.77'	15.75'		
TW-45	13:25		6.73'		
TW-46	13:29		6.91'		
TW-47	13:56		6.61'		
TW-48	14:45		—		Rooted in @ 7' / NM.
TW-49	14:09		6.34'		
TW-50	~~14:48~~	9.09'	9.48'		
TW-51	14:15		6.69'		
TW-52	14:21		7.15'		
TW-53	14:24		6.90'		
TW-54	14:26		7.29'		
MW-5	—		DRY		
MW-7	14:37		8.44'		
MW-20	13:33		5.44'		
MW-21	14:00		3.34'		

5/28 ✓

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 6-3-14
Time:
Form: 3 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-1	14:56		23.08'		
MPE-2	14:54	21.84	21.98'		
MPE-3	14:52		21.17'		
MPE-4	14:50	–	20.35		
MPE-5	14.49	19.65	19.84'		
MPE-6	14:47	20.00	20.11		
MPE-7	14:45	20.82'	20.83'	0.01'	
MPE-8	14:44		22.11'		
MPE-9	14:42		23.81'		
MPE-10	14:40		23.61'		
MPE-11	14:39		DRY		@ 21.6 Roots?
MPE-12	14:37		DRY		@ 22.6 Roots?
MPE-13	14:36		23.06'		
MPE-14	14:33		21.15'		
MPE-16	14:31		20.29'		
MPE-17	14:14		20.48'		
MPE-18	14:12	–	19.61'		
MPE-19	14:10	–	19.33'		
MPE-20	14:08	–	19.11'		
MPE-21	14:07	20.21	20.88'	0.67'	
MPE-22	14:05	21.07	21.30		
MPE-23	14:02	21.10	21.12'	0.02'	
MPE-24	14:00		23.02'		
MPE-25	12:05		23.39'		
MPE-26	12:04	23.08	23.79'		
MPE-27	12:01		DRY		@ 22'
MPE-28	12:00		DRY		@ 22'
MPE-29	11:58		DRY		@ 21'
MPE-30	11:56		DRY		@ 21.4'
MPE-31	11:55		DRY		To 23'
MPE-33	11:54	22.66	22.69	0.03'	
MPE-34	11:52	22.44	22.67	0.23'	
MPE-35	11:48	29.09	29.10	0.01'	
MPE-36	11:46	–	20.35'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 6-2-14
Time:
Form: 4 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-37	10:35	20.57'	20.77'	0.20'	
MPE-38	11:43		20.16'		
MPE-39	11:41		17.79'		
MPE-40	11:39		17.99'		
MPE-41	11:37	—	18.70'		
6/3 MPE-42	10:30	19.28'	19.76'	0.48'	
MPE-43	11:31	—	20.25		
MPE-44	11:30	20.32'	20.62	0.30'	
MPE-45	11:25	20.45'	20.87'	0.42'	
MPE-46	11:21	—	21.60'		
MPE-47	11:20	21.00	21.46'	0.46'	
MPE-48	11:18	—	DRY		TD-20' (ROOTS?)
MPE-49	11:17		19.44'		
MPE-50	11:15	20.61'	21.0'		
MPE-51	11:13	—	21.10'		
MPE-52	11:11	20.87	21.14'		
MPE-53	11:07	19.64'	19.86'	0.22'	
MPE-54	11:05	19.35'	19.45'	0.10'	
MPE-55	11:02		18.84'		
MPE-56	11:00		14.28'		
MPE-57	10:58		14.09'		
6/3 MPE-58	10:56		15.28'		
MPE-59	13:17		13.90'		
MPE-60	13:15	—	14.20'		
MPE-61	13:12	—	14.01'		
MPE-62	13:09	—	14.07'		
MPE-63	13:06	15.04'	15.24'		
MPE-64	13:04	—	15.35'		
MPE-65	13:02	—	16.10'		
MPE-66	12:55	—	16.27'		
MPE-67	12:53	17.50'	17.61'		
MPE-68	12:51		16.61'		
MPE-69	12:49		15.25'		
MPE-70	12:46	—	15.55'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 6-2-14
Time: 11:30 START
Form: 5 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-71	12:43		15.64'		
MPE-72	12:31	16.11'	16.15'	0.04'	
MPE-73	12:29	15.90'	16.50'	0.60	- ✓
MPE-74	12:26	14.82'	15.36'	0.54	- ✓
MPE-75	12:23	13.82'	14.31'	0.49	- ✓
MPE-76	12:21	12.93'	13.05'	0.12	
MPE-77	12:18	12.48'	12.58'	0.10	
MPE-78	12:15	11.37'	11.42'	0.05	
MPE-79	12:14	—	11.29'		
MPE-80	12:00	—	8.86'		
MPE-81	11:57	10.56'	11.00'	0.44	✓
MPE-82	11:55	—	10.78		
MPE-83	11:52	12.14'	12.49'	0.35	✓
MPE-84	11:50	15.93'	16.02'	0.09'	
MPE-85	11:46	15.77'	16.16'	0.37	
MPE-86	11:44		17.15'		
MPE-87	11:43	—	15.68'		
MPE-88	11:37	13.57'	13.83'	0.26'	
MPE-89	11:35	14.60'	14.64'	0.04	
MPE-90	11:33	14.65'	14.98'	0.33	

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-7	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*

Project No.: AES 050204
Date: 5-29-14
Arrival Time: 11:30
Air Temp: 80°5 F
T.O.C. Elev. (ft): 5461.17
Total Well Depth (ft): 28.08

If NAPL Present: D.T.P.: 22.43' D.T.W.: 22.80' Thickness: 0.37' Time: 12:38 · (5-21)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							No Sample. / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-8	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Project No.: AES 050204
Location: Bloomfield, New Mexico
Date: 5-29-14
Project: Groundwater Monitoring and Sampling
Arrival Time:
Sampling Technician: Mike Beauparlant
Air Temp:
Purge / No Purge: Purge
T.O.C. Elev. (ft): 5458.29
Well Diameter (in): 2
Total Well Depth (ft): 27.61
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 19.96' **Time:** 12:11 5-21 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:50	12.12°	2.000	0.32	7.58	64.4	3.7 GAL.	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-15	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 13.40 **Time:** 13:30 (5-21) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 5-29-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5450.44
Total Well Depth (ft): 22.2

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:16	14.37°	3.173	0.22	7.64	58.4	4.3 Gal.	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW ~~MW~~-22

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 15.08 **Time:** 14:16 (5-21) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES 050204
Date: 5-29-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:14	16.63°	2.744	0.05	7.58	89.3	3 Gal.	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: Tw-36	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Project No.: AES 050204
Location: Bloomfield, New Mexico
Date: 5-29-14
Project: Groundwater Monitoring and Sampling
Arrival Time:
Sampling Technician: Mike Beauparlant
Air Temp:
Purge / No Purge: Purge
T.O.C. Elev. (ft):
Well Diameter (in): 2
Total Well Depth (ft):
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 12.95' **Time:** 10:16 (5-28) *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:50	17.40°	4.425	0.09	7.44	70.6	3 GAL	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-37	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 10.41 **Time:** 11:15 (5/22) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES 050204
Date: 5-29-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5439.59
Total Well Depth (ft): 16.5

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:24	15.83°	3.269	0.03	7.50	27.7	3 Gal	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-38

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 11.44' **Time:** 11:20 (5/28) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: 5-29-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:42	15.62°	3.769	0.09	7.61	68.0	3 GAL.	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-39	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 11.44' **Time:** 11:30 (5-28) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: 5-29-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5438.43
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
15:02	15.51°	3.847	0.05	7.59	44.5	3 Gal	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-41	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 5.65 **Time:** 11:45 (5128) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: 5-29-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5434.77
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
15:20	15.45°	5.438	0.35	7.60	65.7		

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-42	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 4.59 **Time:** 11:55 (5/20) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: _____
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5433.76
Total Well Depth (ft): 11.82

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
15:42	14.97°						

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-43	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 11.92' **Time:** 12:00 (5/28) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: 5-30-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5440.42
Total Well Depth (ft): 18.86

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
10:00	15.38°	3.315	0.25	7.31	105.4	1 Gal -	Low Yield / Turbid

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-45	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.73' **Time:** 13:25 (5-28) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: 5-30-14
Arrival Time: _____
Air Temp: 80°s F
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
10:29	14.13°	3.986	0.27	7.34	119.0	3 Gal.	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-52	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.15' **Time:** 14:21 (5:00) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: 5-30-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
10:45	15.05°	6.65A	0.25	7.42	102.5	1/2 Gal.	Very low Yield

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

If it is necessary to calculate the volume of the monitoring well to determine what volume of groundwater

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-54

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.29' **Time:** 14:26 (5/20) *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: 5-30-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:06	13.93°	4.642	0.22	7.43	82.4	3. Gal.	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

If it is necessary to calculate the volume of the monitoring well to determine what volume of groundwater

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-7

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in):
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 8.44' **Time:** 14:37 (5 30) *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Project No.: AES 050204
Date: 5-30-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5435.28
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:20	14.54°	4.784	0.28	7.45	63.0	3 Gal.	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-20	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in):
Initial D.T.W. (ft): Time: *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 5.44' Time: 13:33 (5-30) *(taken prior to purging well)*
Final D.T.W. (ft): Time: *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 5-30-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5430.45
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:58	13.73°	5.063	0.28	7.33	56.3	3 Gal.	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-21	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Mike Beauparlant
Purge / No Purge: Purge
Well Diameter (in):
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 3.34' **Time:** 14:00 (5-28) *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Project No.: AES 050204
Date: 5-30-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5428.62
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:30	14.61°	4.616	0.25	7.43	72.4	3. Gal	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per SM2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: ~~7-28-14~~ - (8-5-14)
Time:
Form: 1 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-1			31.52'		
TW-2			29.72'		
TW-3			DRY		
TW-4			19.90		
TW-5			26.28'		
TW-6			25.46'		
TW-7		22.69'	23.77	1.08'	
TW-8			20.48		
TW-9			13.13		
TW-10			13.29'		
TW-11			18.79'		
TW-12		23.02	23.30	0.28	
TW-13		21.25	22.29	1.04	
TW-14		17.53	18.53	1.00	
TW-15			13.92'		
TW-16			NM		ROOTED IN
TW-17			10.77		
TW-18			16.96		
TW-19		18.07	18.80	0.73	
TW-20		17.89	20.28	2.39'	
TW-21		16.86	17.55	0.69'	
TW-22		15.29'	15.79	0.50'	
TW-23			NM		ROOTED IN
TW-24		11.41'	11.43'	0.02'	
TW-25		14.52'	15.04'	0.52'	
TW-26		16.16'	17.23'	1.07'	
TW-28		15.50'	16.76'	1.26'	
TW-29		9.55'	10.29'	0.74'	
TW-30			6.30'		
TW-31			7.43'		
TW-32		9.54'	10.52'	0.98'	
TW-33		13.05'	14.09'	1.04'	
TW-34			20.72'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 8-5-14
Time:
Form: 2 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-35		15.33	16.52	1.19'	
TW-36		13.24'	13.41	0.17'	
TW-37			10.73'		
TW-38		11.68	11.82	0.14'	
TW-39			8.19'		
TW-40		8.22'	8.43'	0.21'	
TW-41			6.11'		
TW-42			5.39'		
TW-43			12.25'		
TW-44		15.05'	16.12'	1.07'	
TW-45			7.10'		
TW-46			7.25'		
TW-47			7.26'		
TW-48			NM.		ROOTED in @ 7'
TW-49			6.31'		
TW-50		9.41'	9.81.	0.40'	
TW-51			7.06'		
TW-52			7.59'		
TW-53			7.38'		
TW-54			7.74'		
MW-5			DRY		
MW-7			9.16		
MW-20			5.80'		
MW-21			4.08'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MEASUREMENT FORM

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 8-26-14
Time: 15:00
Form: 3 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-1	15:17		24.46'		
MPE-2	15:20	22.30	22.62'	0.32'	
MPE-3	15:23		21.65'		
MPE-4	15:24		20.84'		
MPE-5	15:26	20.03'	20.82'	0.79'	
MPE-6	15:29	20.44'	20.80'	0.36'	
MPE-7	15:31	21.24	21.51'	0.27'	
MPE-8	15:33		22.59'		
MPE-9	15:34		24.30'		
MPE-10	15:36		24.12'		
MPE-11	15:38		NM		DRY @ 21.6' ROOTS
MPE-12	15:40		NM		DRY @ 22.5' ROOTS?
MPE-13	15:43	23.41'	24.13'	0.72'	
MPE-14	15:48		22.63		
MPE-16	15:50		20.75'		
MPE-17	15:52	20.91'	21.04'	0.13'	
MPE-18	15:54		20.09'		
MPE-19	15:55		19.83'		
MPE-20	15:58		19.52'		
MPE-21	16:00	20.74'	20.78	0.04'	
MPE-22	16:02	21.33'	22.33'	1.00'	
MPE-23	16:05	21.53'	21.56		
MPE-24	16:08	23.39	23.87'		
MPE-25	16:13		23.88		
MPE-26	16:23	23.54	24.49'	0.95'	
MPE-27	16:25		NM		DRY @ 22' ROOTS
MPE-28	16:27		NM		DRY @ 22' "
MPE-29	16:28		NM		DRY @ 20.7'
MPE-30	16:30		NM		DRY @ 21.5'
MPE-31	16:31		NM		DRY @ 22.7'
MPE-33	16:34	22.97'	23.68	0.71'	
MPE-34	16:36	22.75	23.69	0.94'	
MPE-35	16:39	21.34'	22.09'	0.75'	
MPE-36	16:41	20.59	20.90'	0.31'	

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 8-26-14
Time: 16:45
Form: 4 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-37	16:50	20.85'	21.68'	0.83'	
MPE-38	16:52		20.51'		
MPE-39	16:53		18.14'		
MPE-40	16:55		18.35'		
8-27 MPE-41	09:03		19.03'		
MPE-42	09:06	19.53	20.73'	1.20'	
MPE-43	09:35	20.58'	20.86'	0.28'	
MPE-44	09:40	20.65'	21.34'	0.69'	
MPE-45	10:00	20.74'	22.03'	1.29.	
MPE-46	10:03		22.05'		
(9.10) ADD MPE-47	10:05	21.36'	22.65'	1.29	
MPE-48	10:20		NM		DRY @ 20.' - ROOTS
MPE-49	10:22		NM		DRY @ 20' - ROOTS
MPE-50	10:24	21.08'	21.56'	0.48'	
MPE-51	10:28	21.52'	21.54'	0.02'	
9/2 MPE-52	10:30	21.13'	22.14'	1.01'	
MPE-53	10:34	19.85'	20.94'	1.09'	ACTIVATE - 9/2
MPE-54	10:37	19.58'	20.52	0.94'	
MPE-55	10:45		19.19'		
MPE-56	10:46		14.62'		
MPE-57	10:48		15.31'		
MPE-58	10:49		15.58'		
MPE-59	10:51		14.28'		
MPE-60	10:53		14.57'		
MPE-61	10:54		14.37'		
MPE-62	10:56		14.43'		
MPE-63	11:15	15.31'	16.14'	0.83'	
MPE-64	11:21	15.58'	16.44'	0.86'	
MPE-65	11:24	16.36	17.03'	0.67'	
MPE-66	11:26	16.55	17.30'	0.75'	
MPE-67	11:31	17.84'	18.47'	0.63'	
MPE-68	11:34		16.31		
MPE-69	11:36		15.70'		
MPE-70	11:39	15.83'	16.53'	0.70'	

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 8-27-14
Time:
Form: 5 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-71	11:42	15.92'	16.21'	0.29'	
MPE-72	11:47	16.44'	16.70'	0.26'	
MPE-73	12:01	16.10'	17.64'	1.54'	
MPE-74	12:04	15.09'	16.09'	1.00'	
MPE-75	12:06	14.13'	14.84'	0.71'	
MPE-76	12:08	13.16	~~13.15~~ 13.85'	0.69'	
MPE-77	12:10	12.82'	12.94'	0.12'	
MPE-78	12:13	11.64'	12.09'	0.45'	
MPE-79	12:15		11.60'		
MPE-80	12:17		9.16'		
MPE-81	12:19	10.82'	11.51'	0.69'	
MPE-82	12:21	11.12'	11.34'	0.22'	
MPE-83	12:23	12.50'	12.76'	0.26'	
MPE-84	12:27	16.11	17.09'	0.98'	
MPE-85	12:30	16.01'	16.93'	0.92'	
MPE-86	12:32	17.32'	18.17'	0.85	
MPE-87	12:34	—	16.03'		
MPE-88	12:36	13.79	14.80	1.01	
MPE-89	12:38	14.81'	15.81	1.00'	
MPE-90	12:40	14.88'	16.41	1.53	

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 12-4/5-14
Time:
Form: 1 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-1			31.55'		
TW-2			29.79'		
TW-3			30.00'		
TW-4			19.92'		
TW-5			28.36'		
TW-6			25.54'		
TW-7		22.72'	23.95'	1.23'	
TW-8			20.41'		
TW-9			12.87'		
TW-10			13.02'		
TW-11			18.83'		
TW-12		23.06'	23.46'	0.40'	
TW-13		21.25'	22.15'	0.90'	
TW-14		17.56'	18.71'	1.15'	
TW-15			13.75'		
TW-16			11.22'		
TW-17			10.43'		
TW-18			16.95'		
TW-19		18.13'	18.85'	0.72'	
TW-20		17.98'	18.51'	0.53'	
TW-21		16.90'	17.77'	0.87'	
TW-22		15.55'	15.55'	0.20'	
TW-23			9.36'		
TW-24			11.22'		
TW-25		14.57	15.05'	0.48'	
TW-26		16.25'	17.40'	1.15'	
TW-28		15.59'	17.00'	1.41'	
TW-29		9.42'	9.61'	0.19'	
TW-30			6.03'		
TW-31			7.10'		
TW-32		9.48'	10.70'	1.22'	
TW-33		13.12'	14.10'	0.98'	
TW-34			20.47'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date:
Time:
Form: 2 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-35		15.42'	16.53'	1.11'	
TW-36		13.27'	13.44	0.17'	
TW-37			10.81'		
TW-38		11.75'	11.82'	0.07'	
TW-39			7.97'		
TW-40		7.89'	7.97'	0.08'	
TW-41			6.23'		
TW-42			6.30'		
TW-43			12.42'		
TW-44		15.13'	16.21'	1.08	
TW-45			7.15'		
TW-46			7.51'		
TW-47			6.90'		
TW-48			7.32'		
TW-49			6.03'		
TW-50		7.99'	8.36'		
TW-51			7.12'		
TW-52			7.57'		
TW-53			7.33'		
TW-54			7.74'		
MW-5			DRY		
MW-7			8.69'		
MW-20			6.14'		
MW-21			3.67'		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 12-8-14
Time:
Form: 3 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-1			24.40'		
MPE-2		22.24'	22.52	0.28'	
MPE-3			21.59'		
MPE-4			20.76'		
MPE-5		19.98'	20.62'	0.64'	
MPE-6		20.37'	20.76'	0.39'	
MPE-7		21.21'	21.29	0.08'	
MPE-8		21.50	21.61'	0.11'	
MPE-9			24.22'		
MPE-10			24.03'		
MPE-11			22.58'		
MPE-12			23.09'		
MPE-13		23.40'	27.70'	4.3'	? WILL REMEASURE. / MB
MPE-14			22.55'		
MPE-16			20.69'		
MPE-17			20.87'		
MPE-18			20.00		
MPE-19			19.73'		
MPE-20			19.45'		
MPE-21		20.47'	21.54	1.07'	
MPE-22		21.44'	21.51	0.07'	
MPE-23		21.49'	21.52	0.03'	
MPE-24		23.38'	23.53'	0.15'	
MPE-25			23.76'		
MPE-26		23.41'	24.39'	0.98'	
MPE-27			22.59'		
MPE-28			22.56'		
MPE-29			21.33'		
MPE-30			21.89'		
MPE-31			23.16'		
MPE-33		22.93'	23.45'	0.52'	
MPE-34		22.76	23.35	0.59'	
MPE-35		21.41'	21.57	0.16'	
MPE-36		20.49'	21.02	0.53'	

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 12-8-14
Time:
Form: 4 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-37		20.79'	21.62'	0.83	
MPE-38			20.44'		
MPE-39			18.09'		
MPE-40			18.28'		
MPE-41			18.95'		
MPE-42		19.65	20.00	0.35'	
MPE-43			20.60		
MPE-44		20.30	20.98'	0.68'	
MPE-45		20.78	21.63'	0.85'	
MPE-46		21.86'	22.34'	0.48'	
MPE-47		21.28'	22.13'	0.85'	
MPE-48			20.54'		
MPE-49			20.32'		
MPE-50		20.88	21.69'	1.81'	
MPE-51		21.40'	21.68'	0.28'	
MPE-52		21.14	21.82	0.68'	
MPE-53		19.87'	20.68'	0.81'	
MPE-54		19.60'	20.17'	0.57'	
MPE-55			19.14'		
MPE-56			14.57'		
MPE-57			15.25'		
MPE-58			15.47'		
MPE-59			14.18'		
MPE-60			14.48'		
MPE-61			14.31'		
MPE-62			14.38'		
MPE-63		15.25'	16.12'	0.87'	
MPE-64		15.55	16.41	0.86'	
MPE-65		16.34'	16.97'	0.63'	
MPE-66		16.52	17.21'	0.69'	
MPE-67		17.76'	18.56'	0.80'	
MPE-68			16.06'		
MPE-69			15.54'		
MPE-70		16.75'	17.67'	0.92'	

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Mike Beauparlant

Project No.: AES 050204
Date: 12-9-14
Time:
Form: 5 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-71		15.92	16.34'	0.42'	
MPE-72		16.43	16.53	0.10'	
MPE-73		16.08	17.54'	1.46'	
MPE-74		15.05	16.02'	0.97'	
MPE-75		14.11	14.74	0.63'	
MPE-76		13.16'	13.56	0.40'	
MPE-77		12.75	12.85'	0.10'	
MPE-78		11.61	11.73	0.12'	
MPE-79			11.45		
MPE-80			8.97'		
MPE-81		10.72	11.25	0.53	
MPE-82			11.12'		
MPE-83		12.36'	13.04	0.68'	
MPE-84		16.10	16.90	0.80'	
MPE-85		15.98'	16.89	0.91'	
MPE-86		17.36	17.80	0.44'	
MPE-87			16.01'		
MPE-88		13.76'	14.81'	1.05'	
MPE-89		14.76'	15.75'	0.99'	
MPE-90		14.85'	15.85'	1.00'	

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-7

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): **Time:** *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5461.17
Total Well Depth (ft): 28.08

If NAPL Present: D.T.P.: 22.72' D.T.W.: 23.95' Thickness: 1.23' Time:

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							No Sample (NS) NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Sulfate/Chloride (300.0) and TDS (2540C) (1 - 500 mL plastic w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-8

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 20.41' **Time:** *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 12-10-14
Arrival Time: 09:30
Air Temp: 32°
T.O.C. Elev. (ft): 5458.29
Total Well Depth (ft): 27.61

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:05	11.14°	4.124	0.22	7.50	-252.7	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve) ✓
GRO and DRO per EPA Methods 8015 (~~5-40 mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) 1-250 mL Amber ✓
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve) ✓
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3 preserve) - FILTER ✓
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve) ✓

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-13	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 21.25 **D.T.W.:** 22.15 **Thickness:** 0.90' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5458.17
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-14	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 17.56' **D.T.W.:** 18.71' **Thickness:** 1.15 **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5454.24
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BBTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-18	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 16.95' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5452.73
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:32	14.93°	6.835	0.20	7.70	96.3	3 WV's	

Analytical Parameters (include analysis method and number and type of sample containers)

✓ BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
✓ GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~. 1-250 mL Amber
✓ SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-19	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 18.13' **D.T.W.:** 18.85' **Thickness:** 0.72' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5458.49
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS- / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve).~~ 1-250 ml Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-20	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 17.98' **D.T.W.:** 18.51' **Thickness:** 0.53' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5453.74
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-22	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: 15.35 D.T.W.: 15.55 Thickness: 0.20 Time: _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5450.19
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) 1-250mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-23	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.36' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5443.64
Total Well Depth (ft): 15.48

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:04	12.57°	5.962	0.20	7.69	102.7	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve) ✓
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber ✓
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve) ✓

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-24	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 11.22' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5444.79
Total Well Depth (ft): 17.45

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:45	15.13	5.620	0.19	7.72	214.3	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve) ✓
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber ✓
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve) ✓

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-25	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: 14.57' **D.T.W.:** 15.05 **Thickness:** 0.48' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5448.8
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS/NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) | - 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-26	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 16.25' **D.T.W.:** 17.40' **Thickness:** 1.15' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5450.34
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-28	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 15.59 **D.T.W.:** 17.00' **Thickness:** 1.41' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5449.24
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-29	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 9.42' **D.T.W.:** 9.61' **Thickness:** 0.19' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5441.87
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS - NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-30	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.03' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5437.93
Total Well Depth (ft): 17.14

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:20	12.95	5.462	0.13	7.66	129.0	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40 mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-31

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.10' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5438.54
Total Well Depth (ft): 12.96

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:40	12.99°	5.550	0.14	7.72	87.1	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve) ✓
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)~~ | - 250 mL Amber ✓
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve) ✓

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-32	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 9.48 **D.T.W.:** 10.70' **Thickness:** 1.22' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5441.61
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) 1 – 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-33	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 13.12' **D.T.W.:** 14.10' **Thickness:** 0.98' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5445.85
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS. NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ – 1-250mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-36	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 13.27 **D.T.W.:** 13.44 **Thickness:** 0.17' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5441.91
Total Well Depth (ft): 20.35

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS-NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-37	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 10.81' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5439.59
Total Well Depth (ft): 16.5

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
15:25	14.47°	4.255	0.07	7.74	101.6	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve) ✓
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve~~) 1 – 250 mL Amber ✓
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve) ✓
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no preserve) ✓

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-38	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 11.75' **D.T.W.:** 11.82' **Thickness:** 0.07' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5442.11
Total Well Depth (ft): 15.5

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc\)	Notes/Observations
							NS | NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) | – 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

~~revised: 08/10/09~~

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-39	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.97 **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES 050204
Date: 12-11-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5438.43
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
10:55	11.20°	4.191	0.02	7.84	-86.0		

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve~~) 1 - 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-40	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 7.89' **D.T.W.:** 7.97' **Thickness:** 0.08' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5437.5
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS-NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) 1-250mL ~~Vials~~ Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-41	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.23' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-11-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5434.77
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:27	10.91	4.746	0.05	7.76	68.2	3 vols	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40 mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ | — 250 mL Amber
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3I preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

~~revised: 08/10/09~~

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-42

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.30' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-11-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5433.76
Total Well Depth (ft): 11.82

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:52	11.46°	5.338	0.03	7.84	43.8	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve~~) 1 - 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-43	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MS
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 12.42' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-11-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5440.42
Total Well Depth (ft): 18.86

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:15	14.11°	5.047'	0.04	7.74	218.3	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)~~ | - 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-44	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MS
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 15.13' **D.T.W.:** 16.21' **Thickness:** 1.08' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): 5444.08
Total Well Depth (ft): 20.45

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS INAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) 1 – 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-45	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.15' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-11-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:50	11.95	5.450	0.15	7.78	188.1	3 vol's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)~~ | – 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-46	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.51' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES 050204
Date: 12-11-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:05	12.22°	7.631	0.14	7.81	91.6	3 vol's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-47	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.90' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES 050204
Date: 12-11-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:32	12.28	11.54	0.22	7.89	118.2	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve~~) 1 – 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-48

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.32' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-12-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:14	10.63°	4.862	0.03	7.69	17.4	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)~~ 1 - 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-49	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.03' **Time:** *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Project No.: AES 050204
Date: 12-12-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft):
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:20							

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve~~) 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-50	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 7.99' **D.T.W.:** 8.36' **Thickness:** 0.37' **Time:** _____

Project No.: AES 050204
Date: 12-10-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS / NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-51	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.12' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-12-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:45	11.08°	6.681	0.08	7.77	102.1	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-52	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.57' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-12-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:03	10.92°	7.092	0.10	7.73	101.0	3 wv's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve~~) 1 — 250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-53	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.33' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES 050204
Date: 12-12-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:40	11.38°	8.208	0.10	7.80	112.8		

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40 mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) | - 250 mL Amber
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-54	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.74' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-12-14
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:00	12.11°	5.671	0.08	7.81	159.9		

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40 mL Vials 3 w/ HCl preserve, 2 w/o perserve~~) | – 250 mL Amber
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-5	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in):
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date:
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5428.97
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							NS-DRY

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40 mL Vials 3 w/ HCl preserve, 2 w/o perserve)~~ 1 - 250 mL Amber
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-7

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in):
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 8.69' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 12-12-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5435.28
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:47	12.11°	5.356	7.70	0.07	-60.5		

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve~~) 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-20	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: MB
Purge / No Purge: Purge
Well Diameter (in):
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.14' **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: 12-11-14
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5430.45
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
~~14.2~~							
15:20	11.73°	6.621	0.06	7.80	75.6	3 vol's	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 ~~(5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)~~ 1-250 mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-21	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Project No.: AES 050204
Location: Bloomfield, New Mexico
Date: 12-11-14
Project: Groundwater Monitoring and Sampling
Arrival Time:
Sampling Technician: m3
Air Temp:
Purge / No Purge: Purge
T.O.C. Elev. (ft): 5428.62
Well Diameter (in):
Total Well Depth (ft):
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 3.67' **Time:** *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:55	12.57	6.235	0.14	7.78	163.4		

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (~~5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve~~) | 250-mL Amber
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

Remediation Service Int'l
4835 Colt Unit D
Ventura CA 93003
805.644.8382
805.644.8378 FAX
www.rsi-save.com

264625.9

Report Generator Version 1.4

Date of Report:	7/28/2014
Project Name:	TW810 recovered history Feb june 2014
Unit ID:	0
Controller S/N:	182
Software version:	844

Date Range From:	2/13/2014 21:22
Date Range To :	6/30/2014 20:01
Lbs. Removed/Period:	2201.07
Gal Removed/Period:	355.14
SCF Processed/Period:	4176414

There are no express or implied warranties for fitness of use or any other purpose of the data
See report footnotes for disclaimer details and other technical information relating to calculat

Installed Flow Boxes: Box1 - Y Box2 - N Box3 - N

Mass Transfer Btu/Hr
Approach:

Time Stamp	Murphy Status	Op Status	BTU/Hr(est)
02-13-2014 21:22	SNAPSHOT	Auto	8000
02-13-2014 23:22	O2	Auto	50000
02-13-2014 23:27	SHUTDOWN	Auto	50000
04-08-2014 19:29	STALL	Auto	50000
04-08-2014 19:40	SNAPSHOT	Auto	50000
04-08-2014 20:59	H2O_S	Auto	96000
04-08-2014 22:02	SNAPSHOT	Auto	96000
04-09-2014 00:02	O2	Auto	70000
04-09-2014 00:04	H2O_S	Auto	68000
04-09-2014 15:47	SNAPSHOT	Auto	68000
04-09-2014 17:47	O2	Auto	86000

04-09-2014	19:47	O2	Auto	74000
04-09-2014	19:57	H2O_S	Auto	74000
04-09-2014	21:05	SNAPSHOT	Auto	74000
04-09-2014	23:05	H2O_S	Auto	86000
04-09-2014	23:22	SNAPSHOT	Auto	86000
04-10-2014	01:22	O2	Auto	60000
04-10-2014	02:07	H2O_S	Auto	60000
04-10-2014	22:01	SNAPSHOT	Auto	60000
04-10-2014	23:06	H2O_S	Auto	76000
04-13-2014	16:01	SNAPSHOT	Auto	76000
04-13-2014	17:29	H2O_S	Auto	126000
04-13-2014	20:30	SNAPSHOT	Auto	126000
04-13-2014	22:02	H2O_S	Auto	90000
04-15-2014	22:42	SNAPSHOT	Auto	90000
04-16-2014	00:42	O2	Auto	78000
04-16-2014	02:41	O2	Auto	74000
04-16-2014	04:41	O2	Auto	70000
04-16-2014	06:41	O2	Auto	66000
04-16-2014	08:40	O2	Auto	54000
04-16-2014	10:40	O2	Auto	48000
04-16-2014	12:40	O2	Auto	44000
04-16-2014	14:40	O2	Auto	46000
04-16-2014	16:02	RPM	Auto	66000
04-16-2014	16:11	SNAPSHOT	Auto	66000
04-16-2014	18:11	O2	Auto	110000
04-16-2014	18:58	H2O_S	Auto	90000
04-17-2014	16:33	SNAPSHOT	Auto	90000
04-17-2014	18:33	O2	Auto	250000
04-17-2014	19:31	H2O_S	Auto	176000
04-24-2014	16:12	SNAPSHOT	Auto	176000
04-24-2014	18:12	O2	Auto	152000
04-24-2014	19:46	SHUTDOWN	Auto	136000
04-24-2014	20:05	SNAPSHOT	Auto	136000
04-24-2014	22:05	O2	Auto	60000
04-24-2014	22:53	H2O_S	Auto	116000
04-24-2014	23:15	SNAPSHOT	Auto	116000
04-25-2014	01:15	O2	Auto	42000
04-25-2014	03:15	O2	Auto	42000
04-25-2014	05:15	O2	Auto	44000
04-25-2014	06:20	H2O_S	Auto	34000
04-27-2014	16:41	SNAPSHOT	Auto	34000
04-27-2014	18:41	O2	Auto	108000
04-27-2014	20:41	O2	Auto	100000
04-27-2014	21:16	H2O_S	Auto	114000

04-28-2014	00:19	SNAPSHOT	Auto	114000
04-28-2014	02:19	O2	Auto	72000
04-28-2014	04:19	O2	Auto	72000
04-28-2014	06:19	O2	Auto	72000
04-28-2014	08:18	O2	Auto	72000
04-28-2014	10:18	O2	Auto	80000
04-28-2014	12:18	O2	Auto	80000
04-28-2014	12:48	H2O_S	Auto	56000
04-28-2014	15:55	SNAPSHOT	Auto	56000
04-28-2014	17:55	O2	Auto	114000
04-28-2014	19:54	O2	Auto	108000
04-28-2014	21:54	O2	Auto	104000
04-28-2014	23:54	O2	Auto	108000
04-29-2014	01:28	H2O_S	Auto	110000
04-29-2014	15:39	SNAPSHOT	Auto	110000
04-29-2014	17:39	O2	Auto	122000
04-29-2014	19:39	O2	Auto	122000
04-29-2014	21:39	O2	Auto	122000
04-29-2014	23:38	O2	Auto	124000
04-30-2014	01:38	O2	Auto	130000
04-30-2014	01:55	H2O_S	Auto	126000
04-30-2014	16:00	SNAPSHOT	Auto	126000
04-30-2014	17:59	O2	Auto	120000
04-30-2014	19:59	O2	Auto	116000
04-30-2014	21:59	O2	Auto	112000
04-30-2014	23:59	O2	Auto	118000
05-01-2014	01:21	H2O_S	Auto	120000
05-01-2014	16:00	SNAPSHOT	Auto	120000
05-01-2014	18:00	O2	Auto	112000
05-01-2014	20:00	O2	Auto	118000
05-01-2014	22:00	O2	Auto	122000
05-01-2014	23:59	O2	Auto	108000
05-02-2014	01:43	H2O_S	Auto	108000
05-05-2014	00:32	SNAPSHOT	Auto	108000
05-05-2014	02:31	O2	Auto	58000
05-05-2014	04:31	O2	Auto	60000
05-05-2014	06:31	O2	Auto	56000
05-05-2014	08:31	O2	Auto	52000
05-05-2014	10:30	O2	Auto	48000
05-05-2014	12:30	O2	Auto	44000
05-05-2014	14:30	O2	Auto	48000
05-05-2014	16:30	O2	Auto	58000
05-05-2014	18:29	O2	Auto	66000
05-05-2014	20:29	O2	Auto	68000

05-05-2014	22:29	O2	Auto	68000
05-06-2014	00:28	O2	Auto	66000
05-06-2014	02:28	O2	Auto	58000
05-06-2014	04:28	O2	Auto	52000
05-06-2014	06:28	O2	Auto	52000
05-06-2014	08:27	O2	Auto	46000
05-06-2014	10:27	O2	Auto	36000
05-06-2014	12:27	O2	Auto	28000
05-06-2014	14:26	O2	Auto	36000
05-06-2014	16:26	O2	Auto	52000
05-06-2014	18:26	O2	Auto	58000
05-06-2014	20:26	O2	Auto	62000
05-06-2014	22:25	O2	Auto	56000
05-07-2014	00:25	O2	Auto	56000
05-07-2014	02:25	O2	Auto	48000
05-07-2014	04:25	O2	Auto	40000
05-07-2014	06:24	O2	Auto	36000
05-07-2014	08:24	O2	Auto	32000
05-07-2014	10:24	O2	Auto	22000
05-07-2014	12:23	O2	Auto	20000
05-07-2014	14:23	O2	Auto	24000
05-07-2014	16:23	O2	Auto	32000
05-07-2014	18:23	O2	Auto	90000
05-07-2014	19:33	H2O_S	Auto	92000
05-07-2014	20:37	SNAPSHOT	Auto	92000
05-07-2014	22:05	SHUTDOWN	Auto	96000
05-07-2014	22:14	SNAPSHOT	Auto	96000
05-08-2014	00:14	O2	Auto	0
05-08-2014	02:13	O2	Auto	6000
05-08-2014	04:13	O2	Auto	0
05-08-2014	06:13	O2	Auto	0
05-08-2014	08:13	O2	Auto	0
05-08-2014	10:12	O2	Auto	0
05-08-2014	12:12	O2	Auto	0
05-08-2014	14:12	O2	Auto	0
05-08-2014	16:11	O2	Auto	92000
05-08-2014	17:14	SHUTDOWN	Auto	102000
05-08-2014	23:44	SNAPSHOT	Auto	102000
05-09-2014	01:44	O2	Auto	98000
05-09-2014	02:04	H2O_S	Auto	98000
05-14-2014	18:19	SNAPSHOT	Auto	98000
05-14-2014	20:19	O2	Auto	132000
05-14-2014	20:54	H2O_S	Auto	128000
05-14-2014	22:47	SNAPSHOT	Auto	128000

05-15-2014	00:47	O2	Auto	78000
05-15-2014	01:10	H2O_S	Auto	76000
05-15-2014	16:18	SNAPSHOT	Auto	76000
05-15-2014	18:18	O2	Auto	82000
05-15-2014	20:18	O2	Auto	84000
05-15-2014	21:34	H2O_S	Auto	88000
05-18-2014	16:23	SNAPSHOT	Auto	88000
05-18-2014	18:22	O2	Auto	82000
05-18-2014	20:22	O2	Auto	76000
05-18-2014	21:10	H2O_S	Auto	78000
05-18-2014	22:34	SNAPSHOT	Auto	78000
05-19-2014	00:33	O2	Auto	46000
05-19-2014	02:05	H2O_S	Auto	54000
05-19-2014	17:02	SNAPSHOT	Auto	54000
05-19-2014	19:01	O2	Auto	86000
05-19-2014	21:01	O2	Auto	80000
05-19-2014	23:01	O2	Auto	74000
05-20-2014	01:01	O2	Auto	72000
05-20-2014	02:47	H2O_S	Auto	70000
05-20-2014	18:06	SNAPSHOT	Auto	70000
05-20-2014	20:06	O2	Auto	78000
05-20-2014	22:06	O2	Auto	74000
05-21-2014	00:05	O2	Auto	70000
05-21-2014	02:05	O2	Auto	84000
05-21-2014	04:05	O2	Auto	88000
05-21-2014	06:05	O2	Auto	84000
05-21-2014	08:04	O2	Auto	84000
05-21-2014	10:04	O2	Auto	86000
05-21-2014	12:04	O2	Auto	84000
05-21-2014	14:03	O2	Auto	86000
05-21-2014	16:03	O2	Auto	90000
05-21-2014	18:03	O2	Auto	90000
05-21-2014	20:03	O2	Auto	86000
05-21-2014	22:02	O2	Auto	78000
05-22-2014	00:02	O2	Auto	76000
05-22-2014	02:02	O2	Auto	82000
05-22-2014	04:01	O2	Auto	84000
05-22-2014	06:01	O2	Auto	80000
05-22-2014	08:01	O2	Auto	78000
05-22-2014	10:01	O2	Auto	72000
05-22-2014	12:00	O2	Auto	78000
05-22-2014	14:00	O2	Auto	80000
05-22-2014	16:00	O2	Auto	90000
05-22-2014	17:59	O2	Auto	92000

05-22-2014	19:59	O2	Auto	86000
05-22-2014	21:59	O2	Auto	98000
05-22-2014	23:59	O2	Auto	92000
05-23-2014	01:58	O2	Auto	92000
05-23-2014	03:58	O2	Auto	82000
05-23-2014	05:58	O2	Auto	78000
05-23-2014	07:58	O2	Auto	76000
05-23-2014	09:57	O2	Auto	76000
05-23-2014	11:57	O2	Auto	64000
05-23-2014	13:57	O2	Auto	72000
05-23-2014	15:56	O2	Auto	84000
05-23-2014	17:56	O2	Auto	96000
05-23-2014	19:56	O2	Auto	82000
05-23-2014	21:56	O2	Auto	80000
05-23-2014	23:55	O2	Auto	82000
05-24-2014	01:55	O2	Auto	78000
05-24-2014	03:55	O2	Auto	78000
05-24-2014	05:54	O2	Auto	66000
05-24-2014	07:54	O2	Auto	70000
05-24-2014	09:54	O2	Auto	78000
05-24-2014	11:54	O2	Auto	78000
05-24-2014	13:53	O2	Auto	74000
05-24-2014	15:53	O2	Auto	74000
05-24-2014	17:53	O2	Auto	78000
05-24-2014	19:52	O2	Auto	86000
05-24-2014	21:52	O2	Auto	76000
05-24-2014	23:52	O2	Auto	94000
05-25-2014	01:52	O2	Auto	84000
05-25-2014	03:51	O2	Auto	78000
05-25-2014	05:51	O2	Auto	74000
05-25-2014	07:51	O2	Auto	72000
05-25-2014	09:50	O2	Auto	72000
05-25-2014	11:50	O2	Auto	76000
05-25-2014	13:50	O2	Auto	78000
05-25-2014	15:50	O2	Auto	76000
05-25-2014	17:49	O2	Auto	96000
05-25-2014	19:49	O2	Auto	94000
05-25-2014	21:49	O2	Auto	86000
05-25-2014	23:49	O2	Auto	84000
05-26-2014	01:48	O2	Auto	76000
05-26-2014	02:42	SNAPSHOT	Auto	78000
05-26-2014	04:42	O2	Auto	50000
05-26-2014	06:42	O2	Auto	44000
05-26-2014	08:42	O2	Auto	46000

05-26-2014	10:41	O2	Auto	54000
05-26-2014	12:41	O2	Auto	52000
05-26-2014	14:41	O2	Auto	36000
05-26-2014	16:41	O2	Auto	58000
05-26-2014	18:40	O2	Auto	58000
05-26-2014	20:28	SHUTDOWN	Auto	54000
05-26-2014	21:31	SNAPSHOT	Auto	54000
05-26-2014	23:31	O2	Auto	52000
05-27-2014	01:31	O2	Auto	58000
05-27-2014	03:23	SNAPSHOT	Auto	56000
05-27-2014	05:23	O2	Auto	50000
05-27-2014	07:23	O2	Auto	44000
05-27-2014	09:22	O2	Auto	42000
05-27-2014	11:22	O2	Auto	46000
05-27-2014	13:22	O2	Auto	48000
05-27-2014	15:22	O2	Auto	58000
05-27-2014	16:25	SHUTDOWN	Auto	68000
05-27-2014	17:41	SNAPSHOT	Auto	68000
05-27-2014	19:41	O2	Auto	52000
05-27-2014	21:41	O2	Auto	54000
05-27-2014	23:40	O2	Auto	50000
05-28-2014	01:40	O2	Auto	50000
05-28-2014	03:40	O2	Auto	46000
05-28-2014	05:39	O2	Auto	38000
05-28-2014	07:39	O2	Auto	40000
05-28-2014	09:39	O2	Auto	38000
05-28-2014	11:39	O2	Auto	34000
05-28-2014	13:38	O2	Auto	34000
05-28-2014	15:38	O2	Auto	42000
05-28-2014	17:38	O2	Auto	56000
05-28-2014	19:37	O2	Auto	54000
05-28-2014	21:37	O2	Auto	52000
05-28-2014	23:37	O2	Auto	52000
05-29-2014	01:37	O2	Auto	42000
05-29-2014	03:36	O2	Auto	36000
05-29-2014	05:36	O2	Auto	30000
05-29-2014	07:36	O2	Auto	30000
05-29-2014	09:35	O2	Auto	28000
05-29-2014	11:35	O2	Auto	26000
05-29-2014	13:35	O2	Auto	24000
05-29-2014	15:35	O2	Auto	30000
05-29-2014	16:17	SNAPSHOT	Auto	42000
05-29-2014	16:27	SHUTDOWN	Auto	0
06-01-2014	22:38	SNAPSHOT	Auto	0

06-02-2014	00:37	O2	Auto	82000
06-02-2014	02:37	O2	Auto	42000
06-02-2014	04:28	STALL	Auto	46000
06-02-2014	16:37	SNAPSHOT	Auto	46000
06-02-2014	17:36	SHUTDOWN	Auto	60000
06-02-2014	17:47	SNAPSHOT	Auto	60000
06-02-2014	19:46	O2	Auto	78000
06-02-2014	21:46	O2	Auto	62000
06-02-2014	23:46	O2	Auto	62000
06-03-2014	01:46	O2	Auto	68000
06-03-2014	03:45	O2	Auto	76000
06-03-2014	04:04	SNAPSHOT	Auto	74000
06-03-2014	06:04	O2	Auto	68000
06-03-2014	08:04	O2	Auto	74000
06-03-2014	10:04	O2	Auto	76000
06-03-2014	12:03	O2	Auto	78000
06-03-2014	14:03	O2	Auto	82000
06-03-2014	15:20	SNAPSHOT	Auto	86000
06-03-2014	17:20	O2	Auto	102000
06-03-2014	19:19	O2	Auto	90000
06-03-2014	21:19	O2	Auto	86000
06-03-2014	23:19	O2	Auto	82000
06-04-2014	01:18	O2	Auto	96000
06-04-2014	03:18	O2	Auto	100000
06-04-2014	05:18	O2	Auto	100000
06-04-2014	05:51	H2O_S	Auto	96000
06-05-2014	16:15	SNAPSHOT	Auto	96000
06-05-2014	18:15	O2	Auto	112000
06-05-2014	20:15	O2	Auto	92000
06-05-2014	22:14	O2	Auto	84000
06-06-2014	00:14	O2	Auto	82000
06-06-2014	02:14	O2	Auto	82000
06-06-2014	04:13	O2	Auto	88000
06-06-2014	06:13	O2	Auto	92000
06-06-2014	08:13	O2	Auto	96000
06-06-2014	10:13	O2	Auto	96000
06-06-2014	12:12	O2	Auto	102000
06-06-2014	14:12	O2	Auto	106000
06-06-2014	16:12	O2	Auto	104000
06-06-2014	18:11	O2	Auto	102000
06-06-2014	20:11	O2	Auto	104000
06-06-2014	22:11	O2	Auto	106000
06-07-2014	00:11	O2	Auto	106000
06-07-2014	02:10	O2	Auto	110000

06-07-2014	04:10	O2	Auto	98000
06-07-2014	06:10	O2	Auto	104000
06-07-2014	08:09	O2	Auto	102000
06-07-2014	10:09	O2	Auto	104000
06-07-2014	10:55	H2O_S	Auto	102000
06-08-2014	16:16	OIL_P	Auto	102000
06-08-2014	16:30	SNAPSHOT	Auto	102000
06-08-2014	18:30	O2	Auto	80000
06-08-2014	20:29	O2	Auto	86000
06-08-2014	22:29	O2	Auto	94000
06-09-2014	00:29	O2	Auto	96000
06-09-2014	02:29	O2	Auto	100000
06-09-2014	04:28	O2	Auto	98000
06-09-2014	06:28	O2	Auto	104000
06-09-2014	08:28	O2	Auto	106000
06-09-2014	10:27	O2	Auto	108000
06-09-2014	12:27	O2	Auto	112000
06-09-2014	14:27	O2	Auto	114000
06-09-2014	16:27	O2	Auto	102000
06-10-2014	23:20	SNAPSHOT	Auto	98000
06-11-2014	01:20	O2	Auto	50000
06-11-2014	03:20	O2	Auto	54000
06-11-2014	05:20	O2	Auto	60000
06-11-2014	07:19	O2	Auto	62000
06-11-2014	15:59	SHUTDOWN	Auto	62000
06-11-2014	17:06	SHUTDOWN	Auto	62000
06-12-2014	16:10	OIL_P	Manual	62000
06-12-2014	16:16	SHUTDOWN	Auto	62000
06-23-2014	15:39	OIL_P	Auto	0
06-23-2014	15:50	SNAPSHOT	Auto	0
06-23-2014	16:50	O2	Auto	0
06-23-2014	17:50	O2	Auto	2000
06-23-2014	18:50	O2	Auto	6000
06-23-2014	19:50	O2	Auto	10000
06-23-2014	20:10	STALL	Auto	12000
06-24-2014	08:01	SNAPSHOT	Auto	12000
06-24-2014	09:00	O2	Auto	68000
06-24-2014	10:00	O2	Auto	68000
06-24-2014	11:00	O2	Auto	262000
06-24-2014	12:00	O2	Auto	102000
06-24-2014	13:00	O2	Auto	76000
06-24-2014	14:00	O2	Auto	74000
06-24-2014	15:00	O2	Auto	70000
06-24-2014	15:59	O2	Auto	70000

06-24-2014	16:59	O2	Auto	72000
06-24-2014	17:59	O2	Auto	90000
06-24-2014	18:59	O2	Auto	118000
06-24-2014	19:22	SNAPSHOT	Auto	94000
06-24-2014	20:16	STALL	Auto	2000
06-25-2014	15:45	SNAPSHOT	Auto	2000
06-25-2014	16:16	STALL	Auto	32000
06-27-2014	07:37	SNAPSHOT	Auto	32000
06-30-2014	20:01	SNAPSHOT	Auto	62000

Fast Buffer 1

06-09-2014	17:21	O2	Auto	100000
06-09-2014	17:22	O2	Auto	100000
06-09-2014	17:22	O2	Auto	100000
06-09-2014	17:22	O2	Auto	100000
06-09-2014	17:22	O2	Auto	100000
06-09-2014	17:22	O2	Auto	100000
06-09-2014	17:22	O2	Auto	100000
06-09-2014	17:23	O2	Auto	98000
06-09-2014	17:23	O2	Auto	98000
06-09-2014	17:23	O2	Auto	98000
06-09-2014	17:23	O2	Auto	98000
06-09-2014	17:23	O2	Auto	98000
06-09-2014	17:23	O2	Auto	98000
06-09-2014	17:24	O2	Auto	98000
06-09-2014	17:24	O2	Auto	98000
06-09-2014	17:24	O2	Auto	98000
06-09-2014	17:24	O2	Auto	98000
06-09-2014	17:24	O2	Auto	98000
06-09-2014	17:24	O2	Auto	98000
06-09-2014	17:25	O2	Auto	98000
06-09-2014	17:25	O2	Auto	98000
06-09-2014	17:25	O2	Auto	98000
06-09-2014	17:25	O2	Auto	98000
06-09-2014	17:25	O2	Auto	98000
06-09-2014	17:25	O2	Auto	98000
06-09-2014	17:26	O2	Auto	98000
06-09-2014	17:26	O2	Auto	98000
06-09-2014	17:26	O2	Auto	98000
06-09-2014	17:26	O2	Auto	98000
06-09-2014	17:26	O2	Auto	98000

Fast Buffer 2

06-11-2014	07:47	O2	Auto	62000
06-11-2014	07:47	O2	Auto	62000
06-11-2014	07:47	O2	Auto	62000
06-11-2014	07:48	O2	Auto	62000
06-11-2014	07:48	O2	Auto	62000
06-11-2014	07:48	O2	Auto	62000
06-11-2014	07:48	O2	Auto	62000
06-11-2014	07:48	O2	Auto	62000
06-11-2014	07:48	O2	Auto	62000
06-11-2014	07:49	O2	Auto	62000
06-11-2014	07:49	O2	Auto	62000
06-11-2014	07:49	O2	Auto	62000
06-11-2014	07:49	O2	Auto	62000
06-11-2014	07:49	O2	Auto	62000
06-11-2014	07:49	O2	Auto	62000
06-11-2014	07:50	O2	Auto	62000
06-11-2014	07:50	O2	Auto	62000
06-11-2014	07:50	O2	Auto	62000
06-11-2014	07:50	O2	Auto	62000
06-11-2014	07:50	O2	Auto	62000
06-11-2014	07:50	O2	Auto	62000
06-11-2014	07:51	O2	Auto	62000
06-11-2014	07:51	O2	Auto	62000
06-11-2014	07:51	O2	Auto	62000
06-11-2014	07:51	O2	Auto	62000
06-11-2014	07:51	O2	Auto	62000
06-11-2014	07:51	O2	Auto	62000
06-11-2014	07:52	O2	Auto	62000
06-11-2014	07:52	O2	Auto	62000
06-11-2014	07:52	O2	Auto	62000

Assumptions:

20000	Btu/lb
6.2	lb/gallon of gasoline
120	Mole Weight of Extracted VOC
2520	Btu/Cubic Foot of Propane
1000	Btu/Cubic Foot of Natural Gas

Parts/Million by Volume (PPMV) Conversion to Micrograms/Liter (ug/L)
(PPMV/24.055)*AVG. Mole Weight=ug/L

Mass Transfer Equation to Convert to Pounds/Hour:
(ug/L)*(Flow SCFM)*28.3 L/SCF*60 Minutes/Hour*2.2 lbs/Kg*(1/10^9)

contained herein.
ion procedures.

PPMV(est)	Well/Process Vac (In-H2O)	Well/Process Flow (SCFM)	Removed Lbs/Period
0	0	0	0
2400	0	56	5
0	0	2	0.21
0	0	0	0
0	0	0	0
2000	105.41	125	6.32
0	0	0	0
1400	103.26	125	7
1400	105.41	125	0.11
0	0	0	0
1800	70.99	125	8.6

1600	79.59	125	7.4
1600	79.59	125	0.62
0	0	0	0
1800	105.41	125	8.6
0	0	0	0
1200	122.62	125	6
1300	135.53	125	2.25
0	0	35	0
1600	96.8	125	4.12
0	0	0	0
2600	109.71	126	9.24
0	0	34	0
1800	96.8	126	6.9
0	0	0	0
1600	185	125	7.8
1500	191.46	125	7.34
1500	195.76	125	7
1300	202.21	126	6.6
1100	204.36	126	5.36
1000	208.67	126	4.8
900	210.82	126	4.4
900	210.82	126	4.6
1300	12.91	126	4.51
0	0	0	0
2300	109.71	126	11
1900	202.21	126	3.53
0	0	0	0
5300	86.05	125	25
3700	77.44	126	8.51
0	0	0	0
3200	73.14	126	15.2
0	0	64	10.65
0	0	0	0
1200	60.23	125	6
2400	58.08	125	4.64
0	0	0	0
900	34.42	125	4.2
900	43.02	126	4.2
900	66.69	126	4.4
700	68.84	126	1.84
0	0	0	0
2200	64.54	126	10.8
2100	60.23	126	10
2400	68.84	126	3.33

0	0	0	0
1500	30.12	126	7.2
1500	36.57	127	7.2
1500	34.42	127	7.2
1500	40.87	127	7.14
1600	64.54	127	8
1600	66.69	127	8
1200	79.59	127	1.4
0	0	0	0
2300	51.63	126	11.4
2200	49.48	126	10.71
2100	55.93	126	10.4
2200	66.69	126	10.8
2300	79.59	126	8.62
0	0	0	0
2500	47.33	127	12.2
2500	40.87	126	12.2
2500	45.18	126	12.2
2600	45.18	126	12.3
2700	75.29	126	13
2600	83.9	126	1.79
0	0	0	0
2500	55.93	126	11.9
2400	51.63	126	11.6
2300	49.48	125	11.2
2400	58.08	126	11.8
2500	73.14	126	8.2
0	0	0	0
2300	60.23	127	11.2
2500	43.02	126	11.8
2500	36.57	126	12.2
2200	94.65	126	10.71
2200	94.65	126	9.36
0	0	0	0
1200	40.87	126	5.75
1200	27.97	126	6
1200	25.81	126	5.6
1100	30.12	126	5.2
1000	27.97	126	4.76
900	27.97	127	4.4
1000	23.66	126	4.8
1200	25.81	126	5.8
1400	32.27	126	6.55
1400	27.97	126	6.8

1400	25.81	126	6.8
1300	23.66	126	6.55
1200	25.81	126	5.8
1100	23.66	126	5.2
1000	21.51	126	5.2
900	21.51	127	4.56
700	21.51	127	3.6
600	19.36	127	2.8
700	25.81	127	3.57
1100	23.66	127	5.2
1200	21.51	127	5.8
1300	21.51	126	6.2
1100	21.51	126	5.55
1100	21.51	126	5.6
1000	23.66	126	4.8
800	21.51	126	4
700	19.36	126	3.57
600	21.51	127	3.2
400	19.36	127	2.2
400	19.36	127	1.98
500	19.36	127	2.4
600	17.21	126	3.2
1800	70.99	126	9
1900	98.96	126	5.37
0	0	0	0
0	0	59	7.04
0	0	0	0
0	0	57	0
300	0	56	0.6
0	0	55	0
0	0	55	0
0	0	54	0
0	2.15	58	0
0	0	58	0
0	0	59	0
1900	75.29	126	9.12
0	0	55	5.36
0	0	25	0
2000	77.44	125	9.8
2000	94.65	126	1.63
0	0	0	0
2700	77.44	126	13.2
2700	88.2	126	3.73
0	0	0	0

1600	79.59	125	7.8
1600	92.5	126	1.46
0	0	0	0
1700	64.54	126	8.2
1700	75.29	126	8.4
1800	79.59	126	5.57
0	0	0	0
1700	62.38	126	8.13
1600	73.14	126	7.6
1600	81.75	126	3.12
0	0	0	0
1000	68.84	125	4.56
1100	92.5	126	4.14
0	0	0	0
1800	70.99	126	8.53
1700	81.75	126	8
1500	92.5	126	7.4
1500	105.41	126	7.2
1500	118.32	126	6.18
0	0	0	0
1600	83.9	126	7.8
1500	103.26	126	7.4
1400	103.26	126	6.94
1700	116.16	126	8.4
1800	98.96	126	8.8
1700	86.05	127	8.4
1700	81.75	126	8.33
1700	75.29	127	8.6
1700	75.29	127	8.4
1800	75.29	126	8.53
1900	86.05	126	9
1800	105.41	126	9
1800	101.11	126	8.6
1600	105.41	126	7.74
1500	103.26	126	7.6
1700	73.14	126	8.2
1700	64.54	126	8.33
1600	64.54	126	8
1600	64.54	126	7.8
1500	64.54	126	7.2
1600	64.54	127	7.74
1600	68.84	127	8
1900	66.69	126	9
1900	75.29	126	9.12

1800	64.54	126	8.6
2000	73.14	126	9.8
1900	70.99	126	9.2
1900	66.69	127	9.12
1700	66.69	126	8.2
1600	66.69	127	7.8
1500	66.69	127	7.6
1600	66.69	127	7.54
1300	66.69	127	6.4
1500	64.54	127	7.2
1700	70.99	126	8.33
2000	75.29	126	9.6
1700	66.69	126	8.2
1600	64.54	126	8
1700	66.69	126	8.13
1600	60.23	126	7.8
1600	60.23	126	7.8
1400	62.38	126	6.55
1400	62.38	126	7
1600	66.69	126	7.8
1600	66.69	127	7.8
1500	64.54	126	7.34
1500	66.69	126	7.4
1600	66.69	126	7.8
1800	73.14	126	8.53
1600	64.54	126	7.6
1900	75.29	126	9.4
1700	66.69	126	8.4
1600	62.38	126	7.74
1500	62.38	126	7.4
1500	64.54	126	7.2
1500	64.54	126	7.14
1600	62.38	127	7.6
1600	64.54	126	7.8
1600	68.84	126	7.6
2000	73.14	126	9.52
1900	81.75	126	9.4
1800	83.9	126	8.6
1700	77.44	126	8.4
1600	58.08	125	7.54
0	0	0	3.51
1000	53.78	126	5
900	58.08	126	4.4
900	58.08	126	4.6

1100	55.93	126	5.36
1100	53.78	126	5.2
700	55.93	126	3.6
1200	60.23	126	5.8
1200	58.08	126	5.75
0	0	30	4.86
0	0	0	0
1100	94.65	126	5.2
1200	83.9	125	5.8
0	0	0	5.23
1000	62.38	126	5
900	60.23	126	4.4
800	60.23	127	4.17
900	60.23	127	4.6
1000	60.23	127	4.8
1200	66.69	126	5.8
0	0	33	3.57
0	0	0	0
1100	98.96	126	5.2
1100	90.35	126	5.4
1000	68.84	125	4.96
1000	58.08	125	5
900	45.18	126	4.6
800	43.02	126	3.77
800	45.18	126	4
700	45.18	126	3.8
700	40.87	126	3.4
700	43.02	126	3.37
800	45.18	126	4.2
1200	51.63	125	5.6
1100	53.78	125	5.36
1100	55.93	125	5.2
1100	45.18	125	5.2
800	36.57	125	4.2
700	34.42	125	3.57
600	34.42	125	3
600	34.42	126	3
600	34.42	126	2.78
500	32.27	126	2.6
500	34.42	126	2.4
600	34.42	126	3
0	0	0	1.47
0	0	12	0
0	0	0	0

1700	68.84	125	8.13
900	86.05	126	4.2
60900	0	0	4.26
0	0	0	0
0	0	109	2.95
0	0	0	0
1600	83.9	126	7.74
1300	83.9	126	6.2
1300	88.2	126	6.2
1400	96.8	125	6.8
1500	111.86	127	7.54
0	0	15	1.17
1400	116.16	127	6.8
1500	122.62	127	7.4
1600	122.62	127	7.6
1600	126.92	127	7.74
1700	126.92	127	8.2
0	0	16	5.52
2100	101.11	126	10.2
1900	98.96	126	8.93
1800	94.65	126	8.6
1700	86.05	125	8.2
2000	96.8	126	9.52
2000	114.01	127	10
2100	120.47	127	10
2000	120.47	127	2.64
0	0	0	0
2300	81.75	126	11.2
1900	81.75	126	9.2
1700	79.59	125	8.33
1700	21.51	125	8.2
1700	27.97	125	8.2
1800	30.12	126	8.73
1900	38.72	127	9.2
2000	45.18	127	9.6
2000	58.08	127	9.6
2100	70.99	127	10.12
2200	68.84	127	10.6
2100	47.33	126	10.4
2100	34.42	126	10.12
2200	36.57	125	10.4
2200	34.42	125	10.6
2200	34.42	125	10.6
2300	49.48	126	10.91

2000	51.63	126	9.8
2100	68.84	127	10.4
2100	79.59	127	10.12
2100	86.05	127	10.4
2100	86.05	127	3.91
0	0	0	0
0	0	0	0
1700	34.42	126	8
1800	34.42	125	8.53
1900	36.57	125	9.4
2000	40.87	125	9.6
2100	43.02	126	10
2000	64.54	127	9.72
2100	75.29	127	10.4
2200	88.2	127	10.6
2200	94.65	127	10.71
2300	101.11	128	11.2
2300	98.96	127	11.4
2100	62.38	126	10.2
0	0	0	38.43
1000	23.66	125	5
1100	36.57	126	5.4
1200	45.18	126	6
1300	53.78	127	6.15
0	0	0	26.06
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	12.91	124	0
0	19.36	124	0.1
100	21.51	125	0.3
200	25.81	126	0.5
200	0	0	0.2
0	0	0	0
1400	15.06	125	3.34
1400	23.66	125	3.4
5500	40.87	125	13.1
2100	45.18	125	5.1
1600	45.18	125	3.8
1500	47.33	125	3.7
1500	45.18	125	3.5
1400	47.33	125	3.44

1500	53.78	125	3.6
1900	58.08	125	4.5
2400	62.38	126	5.9
0	0	20	1.8
4600	0	0	0.09
0	2.15	0	0
42200	0	0	0.83
0	0	0	0
0	2.15	0	16.02

2100	51.63	126	0
2100	49.48	126	0
2100	47.33	126	0
2000	49.48	126	0
2000	47.33	126	0
2000	51.63	126	0
2000	53.78	126	0
2000	47.33	126	0
2000	49.48	126	0
2000	47.33	126	0
2000	49.48	126	0
2000	47.33	126	0
2000	51.63	126	0
2000	49.48	126	0
2000	49.48	126	0
2000	47.33	126	0
2000	49.48	126	0
2000	53.78	126	0
2000	47.33	126	0
2000	47.33	126	0
2000	49.48	126	0
2000	47.33	126	0
2000	49.48	126	0
2000	45.18	126	0
2000	49.48	126	0
2000	49.48	126	0
2000	51.63	126	0
2000	49.48	126	0
2000	49.48	126	0
2000	47.33	126	0

1200	58.08	127	0
1200	58.08	127	0
1200	58.08	127	0
1200	64.54	127	0
1200	60.23	127	0
1200	58.08	127	0
1200	60.23	127	0
1200	60.23	127	0
1200	60.23	127	0
1200	60.23	127	0
1200	60.23	127	0
1300	58.08	127	0
1300	60.23	127	0
1300	64.54	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	62.38	127	0
1300	64.54	127	0
1300	60.23	127	0
1300	60.23	127	0
1300	60.23	127	0

Cumulative Lbs Removed	Cumulative Gallons Removed	Mass Transfer Equation (indirectly based on Btu/hr estimate) Removed Lbs/Period	Cumulative Lbs Removed
0	0	0	0
5	0.81	5.01	5.01
5.21	0.84	0	5.01
5.21	0.84	0	5.01
5.21	0.84	0	5.01
11.53	1.86	6.13	11.14
11.53	1.86	0	11.14
18.53	2.99	6.52	17.66
18.64	3.01	0.11	17.77
18.64	3.01	0	17.77
27.24	4.4	8.39	26.16

34.64	5.59	7.45	33.61
35.26	5.69	0.62	34.23
35.26	5.69	0	34.23
43.86	7.08	8.39	42.62
43.86	7.08	0	42.62
49.86	8.05	5.59	48.21
52.11	8.41	2.27	50.48
52.11	8.41	0	50.48
56.23	9.07	4.04	54.52
56.23	9.07	0	54.52
65.47	10.56	8.95	63.47
65.47	10.56	0	63.47
72.37	11.67	6.48	69.95
72.37	11.67	0	69.95
80.17	12.93	7.45	77.4
87.51	14.11	6.93	84.33
94.51	15.24	6.99	91.32
101.11	16.3	6.1	97.42
106.47	17.16	5.12	102.54
111.27	17.93	4.7	107.24
115.67	18.64	4.23	111.47
120.27	19.38	4.23	115.7
124.78	20.11	4.17	119.87
124.78	20.11	0	119.87
135.78	21.88	10.8	130.67
139.31	22.45	3.49	134.16
139.31	22.45	0	134.16
164.31	26.48	24.69	158.85
172.82	27.85	8.4	167.25
172.82	27.85	0	167.25
188.02	30.3	15.03	182.28
198.67	32.02	0	182.28
198.67	32.02	0	182.28
204.67	32.99	5.59	187.87
209.31	33.74	4.47	192.34
209.31	33.74	0	192.34
213.51	34.42	4.19	196.53
217.71	35.1	4.23	200.76
222.11	35.81	4.23	204.99
223.95	36.11	1.78	206.77
223.95	36.11	0	206.77
234.75	37.85	10.33	217.1
244.75	39.46	9.86	226.96
248.08	40	3.29	230.25

248.08	40	0	230.25
255.28	41.16	7.04	237.29
262.48	42.32	7.1	244.39
269.68	43.48	7.1	251.49
276.82	44.63	7.04	258.53
284.82	45.92	7.57	266.1
292.82	47.21	7.57	273.67
294.22	47.44	1.42	275.09
294.22	47.44	0	275.09
305.62	49.28	10.8	285.89
316.33	51.01	10.25	296.14
326.73	52.69	9.86	306
337.53	54.43	10.33	316.33
346.15	55.82	8.46	324.79
346.15	55.82	0	324.79
358.35	57.79	11.83	336.62
370.55	59.76	11.74	348.36
382.75	61.73	11.74	360.1
395.05	63.71	12.11	372.21
408.05	65.81	12.68	384.89
409.83	66.1	1.73	386.62
409.83	66.1	0	386.62
421.73	68.02	11.64	398.26
433.33	69.89	11.27	409.53
444.53	71.7	10.72	420.25
456.33	73.6	11.27	431.52
464.53	74.92	8.02	439.54
464.53	74.92	0	439.54
475.73	76.73	10.89	450.43
487.53	78.63	11.74	462.17
499.73	80.6	11.74	473.91
510.44	82.33	10.25	484.16
519.8	83.84	8.95	493.11
519.8	83.84	0	493.11
525.55	84.77	5.59	498.7
531.55	85.74	5.64	504.34
537.15	86.64	5.64	509.98
542.35	87.48	5.17	515.15
547.11	88.25	4.66	519.81
551.51	88.96	4.26	524.07
556.31	89.73	4.7	528.77
562.11	90.67	5.64	534.41
568.66	91.73	6.52	540.93
575.46	92.83	6.57	547.5

582.26	93.93	6.57	554.07
588.81	94.99	6.05	560.12
594.61	95.93	5.64	565.76
599.81	96.77	5.17	570.93
605.01	97.61	4.7	575.63
609.57	98.35	4.22	579.85
613.17	98.93	3.31	583.16
615.97	99.38	2.84	586
619.54	99.96	3.29	589.29
624.74	100.8	5.21	594.5
630.54	101.74	5.68	600.18
636.74	102.74	6.1	606.28
642.29	103.64	5.12	611.4
647.89	104.54	5.17	616.57
652.69	105.31	4.7	621.27
656.69	105.96	3.76	625.03
660.26	106.54	3.26	628.29
663.46	107.06	2.84	631.13
665.66	107.41	1.89	633.02
667.64	107.73	1.88	634.9
670.04	108.12	2.37	637.27
673.24	108.64	2.82	640.09
682.24	110.09	8.45	648.54
687.61	110.96	5.2	653.74
687.61	110.96	0	653.74
694.65	112.1	0	653.74
694.65	112.1	0	653.74
694.65	112.1	0	653.74
695.25	112.2	0.62	654.36
695.25	112.2	0	654.36
695.25	112.2	0	654.36
695.25	112.2	0	654.36
695.25	112.2	0	654.36
695.25	112.2	0	654.36
695.25	112.2	0	654.36
704.37	113.67	8.85	663.21
709.72	114.53	0	663.21
709.72	114.53	0	663.21
719.52	116.11	9.32	672.53
721.15	116.37	1.57	674.1
721.15	116.37	0	674.1
734.35	118.5	12.68	686.78
738.08	119.1	3.7	690.48
738.08	119.1	0	690.48

745.88	120.36	7.45	697.93
747.34	120.59	1.44	699.37
747.34	120.59	0	699.37
755.54	121.91	7.98	707.35
763.94	123.26	7.98	715.33
769.51	124.16	5.35	720.68
769.51	124.16	0	720.68
777.64	125.47	7.92	728.6
785.24	126.7	7.51	736.11
788.36	127.2	3.01	739.12
788.36	127.2	0	739.12
792.92	127.94	4.62	743.74
797.06	128.61	3.96	747.7
797.06	128.61	0	747.7
805.59	129.99	8.38	756.08
813.59	131.28	7.98	764.06
820.99	132.47	7.04	771.1
828.19	133.63	7.04	778.14
834.37	134.63	6.22	784.36
834.37	134.63	0	784.36
842.17	135.89	7.51	791.87
849.57	137.08	7.04	798.91
856.51	138.2	6.52	805.43
864.91	139.55	7.98	813.41
873.71	140.97	8.45	821.86
882.11	142.32	8.05	829.91
890.44	143.66	7.92	837.83
899.04	145.05	8.05	845.88
907.44	146.4	8.05	853.93
915.97	147.78	8.38	862.31
924.97	149.23	8.92	871.23
933.97	150.68	8.45	879.68
942.57	152.07	8.45	888.13
950.31	153.32	7.45	895.58
957.91	154.55	7.04	902.62
966.11	155.87	7.98	910.6
974.44	157.21	7.92	918.52
982.44	158.5	7.51	926.03
990.24	159.76	7.51	933.54
997.44	160.92	7.04	940.58
1005.18	162.17	7.51	948.09
1013.18	163.46	7.57	955.66
1022.18	164.91	8.92	964.58
1031.3	166.38	8.85	973.43

1039.9	167.77	8.45	981.88
1049.7	169.35	9.39	991.27
1058.9	170.83	8.92	1000.19
1068.02	172.3	8.92	1009.11
1076.22	173.62	7.98	1017.09
1084.02	174.88	7.57	1024.66
1091.62	176.11	7.1	1031.76
1099.16	177.33	7.51	1039.27
1105.56	178.36	6.15	1045.42
1112.76	179.52	7.1	1052.52
1121.09	180.86	7.92	1060.44
1130.69	182.41	9.39	1069.83
1138.89	183.73	7.98	1077.81
1146.89	185.02	7.51	1085.32
1155.02	186.33	7.92	1093.24
1162.82	187.59	7.51	1100.75
1170.62	188.85	7.51	1108.26
1177.17	189.91	6.52	1114.78
1184.17	191.04	6.57	1121.35
1191.97	192.3	7.51	1128.86
1199.77	193.56	7.57	1136.43
1207.11	194.74	6.99	1143.42
1214.51	195.93	7.04	1150.46
1222.31	197.19	7.51	1157.97
1230.84	198.57	8.38	1166.35
1238.44	199.8	7.51	1173.86
1247.84	201.32	8.92	1182.78
1256.24	202.67	7.98	1190.76
1263.98	203.92	7.45	1198.21
1271.38	205.11	7.04	1205.25
1278.58	206.27	7.04	1212.29
1285.72	207.42	6.99	1219.28
1293.32	208.65	7.57	1226.85
1301.12	209.91	7.51	1234.36
1308.72	211.14	7.51	1241.87
1318.24	212.68	9.31	1251.18
1327.64	214.2	8.92	1260.1
1336.24	215.59	8.45	1268.55
1344.64	216.94	7.98	1276.53
1352.18	218.16	7.39	1283.92
1355.69	218.73	0	1283.92
1360.69	219.54	4.7	1288.62
1365.09	220.25	4.23	1292.85
1369.69	220.99	4.23	1297.08

1375.05	221.85	5.12	1302.2
1380.25	222.69	5.17	1307.37
1383.85	223.27	3.29	1310.66
1389.65	224.21	5.64	1316.3
1395.4	225.14	5.59	1321.89
1400.26	225.92	0	1321.89
1400.26	225.92	0	1321.89
1405.46	226.76	5.17	1327.06
1411.26	227.7	5.59	1332.65
1416.49	228.54	0	1332.65
1421.49	229.35	4.7	1337.35
1425.89	230.06	4.23	1341.58
1430.05	230.73	3.76	1345.34
1434.65	231.47	4.26	1349.6
1439.45	232.24	4.73	1354.33
1445.25	233.18	5.64	1359.97
1448.82	233.76	0	1359.97
1448.82	233.76	0	1359.97
1454.02	234.6	5.17	1365.14
1459.42	235.47	5.17	1370.31
1464.38	236.27	4.62	1374.93
1469.38	237.08	4.66	1379.59
1473.98	237.82	4.23	1383.82
1477.75	238.43	3.73	1387.55
1481.75	239.08	3.76	1391.31
1485.55	239.69	3.29	1394.6
1488.95	240.24	3.29	1397.89
1492.32	240.78	3.26	1401.15
1496.52	241.46	3.76	1404.91
1502.12	242.36	5.59	1410.5
1507.48	243.22	5.08	1415.58
1512.68	244.06	5.12	1420.7
1517.88	244.9	5.12	1425.82
1522.08	245.58	3.73	1429.55
1525.65	246.16	3.23	1432.78
1528.65	246.64	2.8	1435.58
1531.65	247.12	2.82	1438.4
1534.43	247.57	2.79	1441.19
1537.03	247.99	2.35	1443.54
1539.43	248.38	2.35	1445.89
1542.43	248.86	2.82	1448.71
1543.9	249.1	0	1448.71
1543.9	249.1	0	1448.71
1543.9	249.1	0	1448.71

1552.03	250.41	7.85	1456.56
1556.23	251.09	4.23	1460.79
1560.49	251.78	0	1460.79
1560.49	251.78	0	1460.79
1563.44	252.26	0	1460.79
1563.44	252.26	0	1460.79
1571.18	253.51	7.45	1468.24
1577.38	254.51	6.1	1474.34
1583.58	255.51	6.1	1480.44
1590.38	256.61	6.52	1486.96
1597.92	257.83	7.04	1494
1599.09	258.02	0	1494
1605.89	259.12	6.63	1500.63
1613.29	260.31	7.1	1507.73
1620.89	261.54	7.57	1515.3
1628.63	262.79	7.51	1522.81
1636.83	264.11	8.05	1530.86
1642.35	265	0	1530.86
1652.55	266.65	9.86	1540.72
1661.48	268.09	8.85	1549.57
1670.08	269.48	8.45	1558.02
1678.28	270.8	7.92	1565.94
1687.8	272.34	9.31	1575.25
1697.8	273.95	9.47	1584.72
1707.8	275.56	9.94	1594.66
1710.44	275.99	2.6	1597.26
1710.44	275.99	0	1597.26
1721.64	277.8	10.8	1608.06
1730.84	279.28	8.92	1616.98
1739.17	280.62	7.85	1624.83
1747.37	281.94	7.92	1632.75
1755.57	283.26	7.92	1640.67
1764.3	284.67	8.38	1649.05
1773.5	286.15	8.99	1658.04
1783.1	287.7	9.47	1667.51
1792.7	289.25	9.47	1676.98
1802.81	290.88	9.86	1686.84
1813.41	292.59	10.41	1697.25
1823.81	294.27	9.86	1707.11
1833.92	295.9	9.78	1716.89
1844.32	297.58	10.25	1727.14
1854.92	299.29	10.25	1737.39
1865.52	301	10.25	1747.64
1876.43	302.76	10.71	1758.35

1886.23	304.34	9.39	1767.74
1896.63	306.02	9.94	1777.68
1906.74	307.65	9.86	1787.54
1917.14	309.33	9.94	1797.48
1921.05	309.96	3.81	1801.29
1921.05	309.96	0	1801.29
1921.05	309.96	0	1801.29
1929.05	311.25	7.98	1809.27
1937.58	312.63	8.32	1817.59
1946.98	314.15	8.85	1826.44
1956.58	315.7	9.32	1835.76
1966.58	317.31	9.86	1845.62
1976.3	318.88	9.39	1855.01
1986.7	320.56	9.94	1864.95
1997.3	322.27	10.41	1875.36
2008.01	324	10.33	1885.69
2019.21	325.81	10.97	1896.66
2030.61	327.65	10.89	1907.55
2040.81	329.3	9.86	1917.41
2079.24	335.5	0	1917.41
2084.24	336.31	4.66	1922.07
2089.64	337.18	5.17	1927.24
2095.64	338.15	5.64	1932.88
2101.79	339.14	6.1	1938.98
2127.85	343.34	0	1938.98
2127.85	343.34	0	1938.98
2127.85	343.34	0	1938.98
2127.85	343.34	0	1938.98
2127.85	343.34	0	1938.98
2127.85	343.34	0	1938.98
2127.85	343.34	0	1938.98
2127.95	343.36	0	1938.98
2128.25	343.41	0.23	1939.21
2128.75	343.49	0.47	1939.68
2128.95	343.52	0	1939.68
2128.95	343.52	0	1939.68
2132.29	344.06	3.21	1942.89
2135.69	344.61	3.26	1946.15
2148.79	346.72	12.81	1958.96
2153.89	347.54	4.89	1963.85
2157.69	348.15	3.73	1967.58
2161.39	348.75	3.49	1971.07
2164.89	349.31	3.49	1974.56
2168.33	349.87	3.21	1977.77

2171.93	350.45	3.49	1981.26
2176.43	351.18	4.43	1985.69
2182.33	352.13	5.64	1991.33
2184.13	352.42	0	1991.33
2184.22	352.43	0	1991.33
2184.22	352.43	0	1991.33
2185.05	352.56	0	1991.33
2185.05	352.56	0	1991.33
2201.07	355.14	0	1991.33

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Cumulative Gallons Removed	Cubic Feet Processed Cumulative	Cumulative Time (hours)	Delta Time (Hours)
0	0	0	0
0.81	6720	2	2
0.81	6730	2.08	0.08
0.81	6730	9.31	7.23
0.81	6730	9.49	0.18
1.8	16605	10.81	1.32
1.8	16605	11.86	1.05
2.85	31605	13.86	2
2.87	31855	13.89	0.03
2.87	31855	20.09	6.2
4.22	46855	22.09	2

5.42	61855	24.09	2
5.52	63105	24.26	0.17
5.52	63105	25.39	1.13
6.87	78105	27.39	2
6.87	78105	27.67	0.28
7.77	93105	29.67	2
8.14	98730	30.42	0.75
8.14	98730	36.2	5.78
8.79	106855	37.28	1.08
8.79	106855	43.43	6.15
10.23	117943	44.9	1.47
10.23	117943	47.92	3.02
11.28	129535	49.45	1.53
11.28	129535	56.56	7.11
12.48	144535	58.56	2
13.6	159410	60.54	1.98
14.73	174410	62.54	2
15.71	189530	64.54	2
16.54	204524	66.52	1.98
17.3	219644	68.52	2
17.98	234764	70.52	2
18.66	249884	72.52	2
19.33	260216	73.89	1.37
19.33	260216	74.04	0.15
21.07	275336	76.04	2
21.63	281258	76.82	0.78
21.63	281258	83.49	6.67
25.61	296258	85.49	2
26.96	303566	86.46	0.97
26.96	303566	93.51	7.05
29.38	318686	95.51	2
29.38	324702	97.08	1.57
29.38	324702	97.4	0.32
30.28	339702	99.4	2
31	345702	100.2	0.8
31	345702	100.57	0.37
31.68	360702	102.57	2
32.36	375822	104.57	2
33.04	390942	106.57	2
33.33	399132	107.65	1.08
33.33	399132	114.09	6.44
35	414252	116.09	2
36.59	429372	118.09	2
37.12	433782	118.67	0.58

37.12	433782	121.72	3.05
38.26	448902	123.72	2
39.41	464142	125.72	2
40.56	479382	127.72	2
41.7	494495	129.7	1.98
42.92	509735	131.7	2
44.14	524975	133.7	2
44.37	528785	134.2	0.5
44.37	528785	137.32	3.12
46.11	543905	139.32	2
47.76	558899	141.3	1.98
49.35	574019	143.3	2
51.02	589139	145.3	2
52.38	600983	146.87	1.57
52.38	600983	154.46	7.59
54.29	616223	156.46	2
56.18	631343	158.46	2
58.07	646463	160.46	2
60.02	661457	162.44	1.98
62.07	676577	164.44	2
62.35	678719	164.72	0.28
62.35	678719	172.21	7.49
64.23	693713	174.19	1.98
66.05	708833	176.19	2
67.78	723833	178.19	2
69.6	738953	180.19	2
70.89	749285	181.56	1.37
70.89	749285	189.45	7.89
72.65	764525	191.45	2
74.54	779645	193.45	2
76.43	794765	195.45	2
78.08	809759	197.43	1.98
79.52	822863	199.16	1.73
79.52	822863	207.45	8.29
80.42	837857	209.43	1.98
81.33	852977	211.43	2
82.24	868097	213.43	2
83.07	883217	215.43	2
83.82	898211	217.41	1.98
84.51	913451	219.41	2
85.27	928571	221.41	2
86.18	943691	223.41	2
87.23	958685	225.39	1.98
88.29	973805	227.39	2

89.35	988925	229.39	2
90.33	1003919	231.37	1.98
91.24	1019039	233.37	2
92.07	1034159	235.37	2
92.83	1049279	237.37	2
93.51	1064392	239.35	1.98
94.04	1079632	241.35	2
94.5	1094872	243.35	2
95.03	1109985	245.33	1.98
95.87	1125225	247.33	2
96.79	1140465	249.33	2
97.77	1155585	251.33	2
98.6	1170579	253.31	1.98
99.43	1185699	255.31	2
100.19	1200819	257.31	2
100.8	1215939	259.31	2
101.33	1230933	261.29	1.98
101.79	1246173	263.29	2
102.1	1261413	265.29	2
102.4	1276526	267.27	1.98
102.78	1291766	269.27	2
103.23	1306886	271.27	2
104.59	1322006	273.27	2
105.43	1330826	274.44	1.17
105.43	1330826	275.51	1.07
105.43	1336018	276.98	1.47
105.43	1336018	277.13	0.15
105.43	1342858	279.13	2
105.53	1349522	281.11	1.98
105.53	1356122	283.11	2
105.53	1362722	285.11	2
105.53	1369202	287.11	2
105.53	1376104	289.09	1.98
105.53	1383064	291.09	2
105.53	1390144	293.09	2
106.96	1405138	295.07	1.98
106.96	1408603	296.12	1.05
106.96	1408603	302.62	6.5
108.46	1423603	304.62	2
108.71	1426123	304.95	0.33
108.71	1426123	312.13	7.18
110.76	1441243	314.13	2
111.36	1445653	314.71	0.58
111.36	1445653	316.59	1.88

112.56	1460653	318.59	2
112.79	1463551	318.97	0.38
112.79	1463551	325.81	6.84
114.08	1478671	327.81	2
115.37	1493791	329.81	2
116.23	1503367	331.08	1.27
116.23	1503367	338.44	7.36
117.51	1518361	340.42	1.98
118.72	1533481	342.42	2
119.2	1539529	343.22	0.8
119.2	1539529	344.62	1.4
119.95	1554404	346.6	1.98
120.59	1565996	348.13	1.53
120.59	1565996	355.44	7.31
121.94	1580990	357.42	1.98
123.23	1596110	359.42	2
124.37	1611230	361.42	2
125.51	1626350	363.42	2
126.51	1639706	365.19	1.77
126.51	1639706	373.12	7.93
127.72	1654826	375.12	2
128.86	1669946	377.12	2
129.91	1684940	379.1	1.98
131.2	1700060	381.1	2
132.56	1715180	383.1	2
133.86	1730420	385.1	2
135.14	1745414	387.08	1.98
136.44	1760654	389.08	2
137.74	1775894	391.08	2
139.09	1790888	393.06	1.98
140.53	1806008	395.06	2
141.89	1821128	397.06	2
143.25	1836248	399.06	2
144.45	1851242	401.04	1.98
145.59	1866362	403.04	2
146.88	1881482	405.04	2
148.16	1896476	407.02	1.98
149.37	1911596	409.02	2
150.58	1926716	411.02	2
151.72	1941836	413.02	2
152.93	1956949	415	1.98
154.15	1972189	417	2
155.59	1987309	419	2
157.02	2002303	420.98	1.98

158.38	2017423	422.98	2
159.89	2032543	424.98	2
161.33	2047663	426.98	2
162.77	2062776	428.96	1.98
164.06	2077896	430.96	2
165.28	2093136	432.96	2
166.43	2108376	434.96	2
167.64	2123489	436.94	1.98
168.63	2138729	438.94	2
169.78	2153969	440.94	2
171.06	2168963	442.92	1.98
172.57	2184083	444.92	2
173.86	2199203	446.92	2
175.07	2214323	448.92	2
176.35	2229317	450.9	1.98
177.56	2244437	452.9	2
178.77	2259557	454.9	2
179.82	2274551	456.88	1.98
180.88	2289671	458.88	2
182.09	2304791	460.88	2
183.31	2320031	462.88	2
184.44	2335025	464.86	1.98
185.58	2350145	466.86	2
186.79	2365265	468.86	2
188.14	2380259	470.84	1.98
189.35	2395379	472.84	2
190.79	2410499	474.84	2
192.08	2425619	476.84	2
193.28	2440613	478.82	1.98
194.42	2455733	480.82	2
195.56	2470853	482.82	2
196.69	2485847	484.8	1.98
197.91	2501087	486.8	2
199.12	2516207	488.8	2
200.33	2531327	490.8	2
201.83	2546321	492.78	1.98
203.27	2561441	494.78	2
204.63	2576561	496.78	2
205.92	2591681	498.78	2
207.11	2606556	500.76	1.98
207.11	2606556	501.66	0.9
207.87	2621676	503.66	2
208.55	2636796	505.66	2
209.23	2651916	507.66	2

210.06	2666910	509.64	1.98
210.89	2682030	511.64	2
211.42	2697150	513.64	2
212.33	2712270	515.64	2
213.23	2727264	517.62	1.98
213.23	2730504	519.42	1.8
213.23	2730504	520.47	1.05
214.06	2745624	522.47	2
214.96	2760624	524.47	2
214.96	2760624	526.34	1.87
215.72	2775744	528.34	2
216.4	2790864	530.34	2
217.01	2805977	532.32	1.98
217.7	2821217	534.32	2
218.46	2836457	536.32	2
219.37	2851577	538.32	2
219.37	2853656	539.37	1.05
219.37	2853656	540.64	1.27
220.2	2868776	542.64	2
221.03	2883896	544.64	2
221.78	2898771	546.62	1.98
222.53	2913771	548.62	2
223.21	2928891	550.62	2
223.81	2943885	552.6	1.98
224.42	2959005	554.6	2
224.95	2974125	556.6	2
225.48	2989245	558.6	2
226.01	3004239	560.58	1.98
226.62	3019359	562.58	2
227.52	3034359	564.58	2
228.34	3049234	566.56	1.98
229.17	3064234	568.56	2
230	3079234	570.56	2
230.6	3094234	572.56	2
231.12	3109109	574.54	1.98
231.57	3124109	576.54	2
232.02	3139229	578.54	2
232.47	3154223	580.52	1.98
232.85	3169343	582.52	2
233.23	3184463	584.52	2
233.68	3199583	586.52	2
233.68	3199583	587.22	0.7
233.68	3199703	587.39	0.17
233.68	3199703	594.12	6.73

234.95	3214578	596.1	1.98
235.63	3229698	598.1	2
235.63	3229698	599.95	1.85
235.63	3229698	607.45	7.5
235.63	3236129	608.43	0.98
235.63	3236129	608.61	0.18
236.83	3251123	610.59	1.98
237.81	3266243	612.59	2
238.79	3281363	614.59	2
239.84	3296363	616.59	2
240.98	3311476	618.57	1.98
240.98	3311761	618.89	0.32
242.05	3327001	620.89	2
243.2	3342241	622.89	2
244.42	3357481	624.89	2
245.63	3372594	626.87	1.98
246.93	3387834	628.87	2
246.93	3389066	630.15	1.28
248.52	3404186	632.15	2
249.95	3419180	634.13	1.98
251.31	3434300	636.13	2
252.59	3449300	638.13	2
254.09	3464294	640.11	1.98
255.62	3479534	642.11	2
257.22	3494774	644.11	2
257.64	3498965	644.66	0.55
257.64	3498965	651.68	7.02
259.38	3514085	653.68	2
260.82	3529205	655.68	2
262.09	3544080	657.66	1.98
263.37	3559080	659.66	2
264.65	3574080	661.66	2
266	3589074	663.64	1.98
267.45	3604314	665.64	2
268.98	3619554	667.64	2
270.51	3634794	669.64	2
272.1	3649907	671.62	1.98
273.78	3665147	673.62	2
275.37	3680267	675.62	2
276.95	3695261	677.6	1.98
278.6	3710261	679.6	2
280.25	3725261	681.6	2
281.9	3740261	683.6	2
283.63	3755255	685.58	1.98

285.14	3770375	687.58	2
286.74	3785615	689.58	2
288.33	3800728	691.56	1.98
289.93	3815968	693.56	2
290.54	3821810	694.33	0.77
290.54	3821810	701.79	7.46
290.54	3821810	702.02	0.23
291.83	3836930	704.02	2
293.17	3851805	706	1.98
294.6	3866805	708	2
296.1	3881805	710	2
297.69	3896925	712	2
299.2	3912038	713.98	1.98
300.8	3927278	715.98	2
302.48	3942518	717.98	2
304.15	3957631	719.96	1.98
305.92	3972991	721.96	2
307.68	3988231	723.96	2
309.27	4003351	725.96	2
309.27	4003351	733.8	7.84
310.02	4018351	735.8	2
310.85	4033471	737.8	2
311.76	4048591	739.8	2
312.74	4063704	741.78	1.98
312.74	4063704	750.18	8.4
312.74	4063704	751.3	1.12
312.74	4063704	760.07	8.77
312.74	4063704	760.17	0.1
312.74	4063704	768.89	8.72
312.74	4063704	769.07	0.18
312.74	4071144	770.07	1
312.74	4078584	771.07	1
312.78	4086084	772.07	1
312.86	4093644	773.07	1
312.86	4093644	773.4	0.33
312.86	4093644	779.91	6.51
313.38	4101019	780.89	0.98
313.91	4108519	781.89	1
315.98	4116019	782.89	1
316.77	4123519	783.89	1
317.37	4131019	784.89	1
317.93	4138519	785.89	1
318.49	4146019	786.89	1
319.01	4153394	787.87	0.98

319.57	4160894	788.87	1
320.28	4168394	789.87	1
321.19	4175954	790.87	1
321.19	4176414	791.25	0.38
321.19	4176414	792.15	0.9
321.19	4176414	796.69	4.54
321.19	4176414	797.21	0.52
321.19	4176414	801.91	4.7
321.19	4176414	807.08	5.17

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Remediation Service Int'l
4835 Colt Unit D
Ventura CA 93003
805.644.8382
805.644.8378 FAX
www.rsi-save.com

REMEDIATION SERVICE, INT'L

Report Generator Version 1.4

Date of Report:	5/4/2015
Project Name:	Thriftway 810
Unit ID:	0
Controller S/N:	236
Software version:	844

Date Range From:	9/20/2014 1:31
Date Range To :	10/27/2014 9:01
Lbs. Removed/Period:	1594.67
Gal Removed/Period:	257.2
SCF Processed/Period:	1543591

There are no express or implied warranties for fitness of use or any other purpose of the data
See report footnotes for disclaimer details and other technical information relating to calculat

Installed Flow Boxes: Box1 - N Box2 - N Box3 - N

Mass Transfer Btu/Hr
Approach:

Time Stamp	Murphy Status	Op Status	BTU/Hr(est)
09-20-2014 01:31	O2	Auto	16000
09-20-2014 02:31	O2	Auto	14000
09-20-2014 03:31	O2	Auto	12000
09-20-2014 04:30	O2	Auto	10000
09-20-2014 05:30	O2	Auto	8000
09-20-2014 06:30	O2	Auto	8000
09-20-2014 07:30	O2	Auto	16000
09-20-2014 08:30	O2	Auto	22000
09-20-2014 09:30	O2	Auto	32000
09-20-2014 10:30	O2	Auto	40000
09-20-2014 11:29	O2	Auto	46000

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09-20-2014	13:29	O2	Auto	46000
09-20-2014	14:29	O2	Auto	44000
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09-22-2014	05:24	O2	Auto	14000
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09-22-2014	07:23	O2	Auto	16000

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09-22-2014	22:13	O2	Auto	72000
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10-08-2014	21:46	O2	Auto	50000
10-08-2014	22:46	O2	Auto	54000
10-08-2014	23:46	O2	Auto	50000
10-09-2014	00:46	O2	Auto	48000
10-09-2014	01:46	O2	Auto	46000
10-09-2014	02:46	O2	Auto	46000
10-09-2014	03:45	O2	Auto	46000
10-09-2014	04:45	O2	Auto	46000
10-09-2014	05:45	O2	Auto	44000
10-09-2014	06:45	O2	Auto	46000
10-09-2014	07:45	O2	Auto	46000
10-09-2014	08:45	O2	Auto	52000

10-09-2014	09:45	O2	Auto	64000
10-09-2014	10:44	O2	Auto	64000
10-09-2014	11:44	O2	Auto	68000
10-09-2014	12:44	O2	Auto	64000
10-09-2014	13:44	O2	Auto	66000
10-09-2014	14:44	O2	Auto	64000
10-09-2014	15:44	O2	Auto	66000
10-09-2014	16:44	O2	Auto	60000
10-09-2014	17:44	O2	Auto	52000
10-09-2014	18:43	O2	Auto	46000
10-09-2014	19:43	O2	Auto	46000
10-09-2014	20:43	O2	Auto	44000
10-09-2014	21:43	O2	Auto	46000
10-09-2014	22:43	O2	Auto	44000
10-09-2014	23:43	O2	Auto	44000
10-10-2014	00:43	O2	Auto	44000
10-10-2014	01:42	O2	Auto	40000
10-10-2014	02:42	O2	Auto	38000
10-10-2014	03:42	O2	Auto	36000
10-10-2014	04:42	O2	Auto	38000
10-10-2014	05:42	O2	Auto	38000
10-10-2014	06:42	O2	Auto	38000
10-10-2014	07:42	O2	Auto	42000
10-10-2014	08:41	O2	Auto	48000
10-10-2014	09:41	O2	Auto	56000
10-10-2014	10:41	O2	Auto	68000
10-10-2014	11:41	O2	Auto	66000
10-10-2014	12:41	O2	Auto	62000
10-10-2014	13:41	O2	Auto	64000
10-10-2014	14:20	OIL_P	Auto	64000
10-13-2014	07:59	SNAPSHOT	Auto	64000
10-13-2014	10:01	SNAPSHOT	Auto	4000
10-13-2014	11:00	O2	Auto	50000
10-13-2014	12:00	O2	Auto	84000
10-13-2014	13:00	O2	Auto	82000
10-13-2014	14:00	O2	Auto	80000
10-13-2014	15:00	O2	Auto	78000
10-13-2014	16:00	O2	Auto	78000
10-13-2014	17:00	O2	Auto	78000
10-13-2014	17:59	O2	Auto	64000
10-13-2014	18:59	O2	Auto	54000
10-13-2014	19:59	O2	Auto	52000
10-13-2014	20:59	O2	Auto	48000
10-13-2014	21:59	O2	Auto	44000

10-13-2014	22:59	O2	Auto	42000
10-13-2014	23:59	O2	Auto	38000
10-14-2014	00:58	O2	Auto	36000
10-14-2014	01:58	O2	Auto	32000
10-14-2014	02:58	O2	Auto	30000
10-14-2014	03:58	O2	Auto	26000
10-15-2014	08:02	SNAPSHOT	Auto	8000
10-15-2014	09:02	O2	Auto	64000
10-15-2014	10:02	O2	Auto	96000
10-15-2014	11:01	O2	Auto	98000
10-15-2014	12:01	O2	Auto	94000
10-15-2014	13:01	O2	Auto	90000
10-15-2014	14:01	O2	Auto	94000
10-15-2014	15:01	O2	Auto	92000
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10-15-2014	17:01	O2	Auto	100000
10-15-2014	18:01	O2	Auto	102000
10-15-2014	19:00	O2	Auto	94000
10-15-2014	20:00	O2	Auto	86000
10-15-2014	21:00	O2	Auto	86000
10-15-2014	22:00	O2	Auto	80000
10-15-2014	23:00	O2	Auto	78000
10-16-2014	00:00	O2	Auto	80000
10-16-2014	01:00	O2	Auto	78000
10-16-2014	01:59	O2	Auto	74000
10-16-2014	02:59	O2	Auto	72000
10-16-2014	03:59	O2	Auto	70000
10-16-2014	04:59	O2	Auto	66000
10-16-2014	05:59	O2	Auto	64000
10-16-2014	06:59	O2	Auto	62000
10-16-2014	07:59	O2	Auto	74000
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10-16-2014	09:58	O2	Auto	96000
10-16-2014	10:26	OIL_P	Auto	94000
10-17-2014	08:06	SNAPSHOT	Auto	94000
10-17-2014	09:06	O2	Auto	10000
10-17-2014	10:06	O2	Auto	82000
10-17-2014	11:06	O2	Auto	64000
10-17-2014	12:05	O2	Auto	56000
10-17-2014	13:05	O2	Auto	56000
10-17-2014	14:05	O2	Auto	56000
10-17-2014	15:05	O2	Auto	60000
10-17-2014	16:05	O2	Auto	62000
10-17-2014	17:05	O2	Auto	62000

10-17-2014	18:05	O2	Auto	62000
10-17-2014	19:04	O2	Auto	60000
10-17-2014	20:04	O2	Auto	58000
10-17-2014	21:04	O2	Auto	56000
10-17-2014	22:04	O2	Auto	50000
10-17-2014	23:04	O2	Auto	50000
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10-18-2014	05:03	O2	Auto	46000
10-18-2014	06:03	O2	Auto	46000
10-18-2014	07:03	O2	Auto	46000
10-18-2014	08:03	O2	Auto	46000
10-18-2014	09:03	O2	Auto	56000
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10-18-2014	15:02	O2	Auto	66000
10-18-2014	16:02	O2	Auto	66000
10-18-2014	17:01	O2	Auto	66000
10-18-2014	18:01	O2	Auto	66000
10-18-2014	19:01	O2	Auto	54000
10-18-2014	20:01	O2	Auto	48000
10-18-2014	21:01	O2	Auto	46000
10-18-2014	22:01	O2	Auto	44000
10-18-2014	23:01	O2	Auto	38000
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10-19-2014	01:00	O2	Auto	38000
10-19-2014	02:00	O2	Auto	40000
10-19-2014	03:00	O2	Auto	40000
10-19-2014	04:00	O2	Auto	42000
10-19-2014	05:00	O2	Auto	40000
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10-19-2014	08:59	O2	Auto	48000
10-19-2014	09:59	O2	Auto	62000
10-19-2014	10:59	O2	Auto	66000
10-19-2014	11:59	O2	Auto	64000
10-19-2014	12:59	O2	Auto	62000

10-19-2014	13:58	O2	Auto	68000
10-19-2014	14:58	O2	Auto	70000
10-19-2014	15:58	O2	Auto	70000
10-19-2014	16:58	O2	Auto	60000
10-19-2014	17:58	O2	Auto	54000
10-19-2014	18:58	O2	Auto	50000
10-19-2014	19:58	O2	Auto	48000
10-19-2014	20:58	O2	Auto	48000
10-19-2014	21:57	O2	Auto	42000
10-19-2014	22:57	O2	Auto	42000
10-19-2014	23:57	O2	Auto	40000
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10-20-2014	09:56	O2	Auto	60000
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10-20-2014	17:55	O2	Auto	50000
10-20-2014	18:54	O2	Auto	44000
10-20-2014	19:54	O2	Auto	42000
10-20-2014	20:54	O2	Auto	42000
10-20-2014	21:54	O2	Auto	38000
10-20-2014	22:54	O2	Auto	40000
10-20-2014	23:54	O2	Auto	38000
10-21-2014	00:54	O2	Auto	42000
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10-21-2014	03:53	O2	Auto	40000
10-21-2014	04:53	O2	Auto	40000
10-21-2014	05:53	O2	Auto	34000
10-21-2014	06:53	O2	Auto	36000
10-21-2014	07:53	O2	Auto	38000
10-21-2014	08:53	O2	Auto	44000

10-21-2014	09:52	O2	Auto	54000
10-21-2014	10:52	O2	Auto	64000
10-21-2014	11:52	O2	Auto	60000
10-21-2014	12:52	O2	Auto	54000
10-21-2014	13:52	O2	Auto	64000
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10-21-2014	17:51	O2	Auto	52000
10-21-2014	18:51	O2	Auto	50000
10-21-2014	19:51	O2	Auto	44000
10-21-2014	20:51	O2	Auto	40000
10-21-2014	21:51	O2	Auto	40000
10-21-2014	22:51	O2	Auto	40000
10-21-2014	23:50	O2	Auto	36000
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10-22-2014	17:48	O2	Auto	56000
10-22-2014	18:48	O2	Auto	46000
10-22-2014	19:48	O2	Auto	42000
10-22-2014	20:47	O2	Auto	40000
10-22-2014	21:47	O2	Auto	34000
10-22-2014	22:47	O2	Auto	30000
10-22-2014	23:47	O2	Auto	30000
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10-23-2014	01:47	O2	Auto	28000
10-23-2014	02:47	O2	Auto	24000
10-23-2014	03:47	O2	Auto	26000
10-23-2014	04:46	O2	Auto	24000

10-23-2014	05:46	O2	Auto	24000
10-23-2014	06:46	O2	Auto	24000
10-23-2014	07:46	O2	Auto	28000
10-23-2014	08:46	O2	Auto	38000
10-23-2014	09:46	O2	Auto	46000
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10-23-2014	17:45	O2	Auto	52000
10-23-2014	18:44	O2	Auto	42000
10-23-2014	19:44	O2	Auto	40000
10-23-2014	20:44	O2	Auto	34000
10-23-2014	21:44	O2	Auto	30000
10-23-2014	22:44	O2	Auto	26000
10-23-2014	23:44	O2	Auto	24000
10-24-2014	00:44	O2	Auto	24000
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10-24-2014	02:43	O2	Auto	22000
10-24-2014	03:43	O2	Auto	20000
10-24-2014	04:43	O2	Auto	18000
10-24-2014	05:43	O2	Auto	18000
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10-24-2014	07:43	O2	Auto	26000
10-24-2014	08:42	O2	Auto	36000
10-24-2014	09:42	O2	Auto	44000
10-24-2014	10:42	O2	Auto	54000
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10-24-2014	12:42	O2	Auto	64000
10-24-2014	13:42	O2	Auto	64000
10-24-2014	14:42	O2	Auto	66000
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10-24-2014	17:41	O2	Auto	58000
10-24-2014	18:41	O2	Auto	44000
10-24-2014	19:41	O2	Auto	40000
10-24-2014	20:41	O2	Auto	30000
10-24-2014	21:41	O2	Auto	30000
10-24-2014	22:41	O2	Auto	26000
10-24-2014	23:40	O2	Auto	26000
10-25-2014	00:40	O2	Auto	24000

10-25-2014	01:40	O2	Auto	22000
10-25-2014	02:40	O2	Auto	18000
10-25-2014	03:40	O2	Auto	18000
10-25-2014	04:40	O2	Auto	22000
10-25-2014	05:40	O2	Auto	24000
10-25-2014	06:39	O2	Auto	26000
10-25-2014	07:39	O2	Auto	28000
10-25-2014	08:39	O2	Auto	38000
10-25-2014	09:39	O2	Auto	44000
10-25-2014	10:39	O2	Auto	56000
10-25-2014	11:39	O2	Auto	66000
10-25-2014	12:39	O2	Auto	66000
10-25-2014	13:38	O2	Auto	66000
10-25-2014	14:38	O2	Auto	66000
10-25-2014	15:38	O2	Auto	68000
10-25-2014	16:38	O2	Auto	72000
10-25-2014	17:08	H2O_S	Auto	68000
10-27-2014	08:59	SNAPSHOT	Auto	68000
10-27-2014	09:01	SHUTDOWN	Auto	0

Fast Buffer 1

10-16-2014	10:22	O2	Auto	94000
10-16-2014	10:22	O2	Auto	94000
10-16-2014	10:22	O2	Auto	94000
10-16-2014	10:22	O2	Auto	94000
10-16-2014	10:23	O2	Auto	94000
10-16-2014	10:23	O2	Auto	94000
10-16-2014	10:23	O2	Auto	94000
10-16-2014	10:23	O2	Auto	94000
10-16-2014	10:23	O2	Auto	94000
10-16-2014	10:23	O2	Auto	94000
10-16-2014	10:24	O2	Auto	94000
10-16-2014	10:24	O2	Auto	94000
10-16-2014	10:24	O2	Auto	94000
10-16-2014	10:24	O2	Auto	94000
10-16-2014	10:24	O2	Auto	94000
10-16-2014	10:24	O2	Auto	94000
10-16-2014	10:25	O2	Auto	94000
10-16-2014	10:25	O2	Auto	94000
10-16-2014	10:25	O2	Auto	94000
10-16-2014	10:25	O2	Auto	94000
10-16-2014	10:25	O2	Auto	94000

10-16-2014	10:25	O2	Auto	94000
10-16-2014	10:26	O2	Auto	94000
10-27-2014	09:00	O2	Auto	0
10-27-2014	09:00	O2	Auto	0
10-27-2014	09:00	O2	Auto	0
10-27-2014	09:00	O2	Auto	0
10-27-2014	09:00	O2	Auto	0
10-27-2014	09:00	O2	Auto	0
10-27-2014	09:01	O2	Auto	0

Fast Buffer 2

10-25-2014	17:03	O2	Auto	68000
10-25-2014	17:03	O2	Auto	68000
10-25-2014	17:03	O2	Auto	68000
10-25-2014	17:04	O2	Auto	68000
10-25-2014	17:04	O2	Auto	68000
10-25-2014	17:04	O2	Auto	70000
10-25-2014	17:04	O2	Auto	70000
10-25-2014	17:04	O2	Auto	68000
10-25-2014	17:04	O2	Auto	68000
10-25-2014	17:05	O2	Auto	68000
10-25-2014	17:05	O2	Auto	68000
10-25-2014	17:05	O2	Auto	68000
10-25-2014	17:05	O2	Auto	70000
10-25-2014	17:05	O2	Auto	70000
10-25-2014	17:05	O2	Auto	72000
10-25-2014	17:06	O2	Auto	70000
10-25-2014	17:06	O2	Auto	70000
10-25-2014	17:06	O2	Auto	68000
10-25-2014	17:06	O2	Auto	68000
10-25-2014	17:06	O2	Auto	68000
10-25-2014	17:06	O2	Auto	68000
10-25-2014	17:07	O2	Auto	68000
10-25-2014	17:07	O2	Auto	68000
10-25-2014	17:07	O2	Auto	68000
10-25-2014	17:07	O2	Auto	70000
10-25-2014	17:07	O2	Auto	70000
10-25-2014	17:07	O2	Auto	68000
10-25-2014	17:08	O2	Auto	68000
10-25-2014	17:08	O2	Auto	68000
10-25-2014	17:08	O2	Auto	68000

Assumptions:

20000	Btu/lb
6.2	lb/gallon of gasoline
120	Mole Weight of Extracted VOC
2520	Btu/Cubic Foot of Propane
1000	Btu/Cubic Foot of Natural Gas

Parts/Million by Volume (PPMV) Conversion to Micrograms/Liter (ug/L)
(PPMV/24.055)*AVG. Mole Weight=ug/L

Mass Transfer Equation to Convert to Pounds/Hour:
(ug/L)*(Flow SCFM)*28.3 L/SCF*60 Minutes/Hour*2.2 lbs/Kg*(1/10^9)

contained herein.
ion procedures.

PPMV(est)	Well/Process Vac (In-H2O)	Well/Process Flow (SCFM)	Removed Lbs/Period
2000	202.21	21	0
1900	197.91	21	0.7
1500	202.21	20	0.6
1300	200.06	20	0.49
1300	202.21	20	0.4
1100	200.06	20	0.4
2000	197.91	21	0.8
2800	197.91	21	1.1
3800	202.21	23	1.6
4300	195.76	25	2
4800	189.31	26	2.26

5100	189.31	24	2.3
4500	185	27	2.3
5000	195.76	24	2.2
5300	200.06	20	2
5700	195.76	22	2.4
5200	193.61	24	2.3
4800	197.91	24	2.2
3800	202.21	20	1.38
3300	202.21	20	1.2
3400	200.06	20	1.2
3300	202.21	20	1.2
3200	200.06	20	1.2
2900	202.21	21	1.1
3000	202.21	21	1.2
2700	202.21	20	0.98
2600	202.21	21	1
2500	200.06	21	1
2500	202.21	20	0.9
2100	200.06	20	0.8
2200	200.06	18	0.7
2800	202.21	19	1
3500	200.06	20	1.28
4000	202.21	22	1.6
4600	195.76	25	2.2
4500	189.31	27	2.3
4800	200.06	22	2
4700	197.91	21	1.8
4500	197.91	23	1.9
4100	197.91	22	1.67
4400	200.06	23	1.9
3500	197.91	22	1.4
2900	200.06	22	1.2
2600	202.21	21	1
2700	200.06	19	0.9
2700	197.91	19	0.9
2500	202.21	19	0.88
2700	200.06	21	1.1
2400	204.36	17	0.7
2400	202.21	18	0.8
2400	200.06	19	0.8
2300	202.21	19	0.8
2300	202.21	17	0.7
2200	202.21	17	0.69
2500	202.21	18	0.8

0	0	0	0.29
0	0	0	0
3600	51.63	34	2.3
2800	77.44	58	3.1
3000	88.2	62	3.5
2600	92.5	69	3.5
2600	90.35	68	3.4
3000	75.29	61	3.44
3600	64.54	51	3.5
4000	73.14	52	3.9
4000	70.99	52	4
4100	68.84	50	3.9
3900	62.38	48	3.6
3800	66.69	48	3.5
3800	64.54	47	3.24
3700	66.69	47	3.3
3500	62.38	46	3.1
3300	64.54	44	2.7
3400	64.54	45	2.9
3200	68.84	45	2.7
3100	64.54	44	2.6
3200	66.69	45	2.66
3900	79.59	52	3.8
3000	73.14	57	3.3
2600	83.9	64	3.1
2200	86.05	68	2.9
2400	86.05	66	3
2400	83.9	66	3
2400	83.9	64	2.95
2700	73.14	61	3.1
2800	75.29	60	3.2
3500	68.84	54	3.6
4400	60.23	47	3.9
4100	55.93	44	3.4
3600	58.08	43	3
3600	58.08	44	3
3300	58.08	42	2.56
3100	53.78	41	2.4
2900	60.23	41	2.3
2700	60.23	41	2.1
2700	60.23	42	2.2
2500	58.08	40	1.8
2400	58.08	40	1.8
2300	58.08	40	1.67

2100	58.08	40	1.6
2300	62.38	42	1.8
3300	68.84	47	2.9
3500	77.44	56	3.7
2700	75.29	59	3.1
2400	77.44	63	2.9
2100	86.05	67	2.66
2100	83.9	67	2.7
2200	83.9	65	2.8
2300	77.44	64	2.8
2600	70.99	61	3
3000	62.38	54	3.1
3900	62.38	50	3.7
4100	55.93	45	3.44
3800	55.93	44	3.1
3600	55.93	43	2.9
3200	58.08	42	2.6
3000	58.08	41	2.3
2800	53.78	41	2.2
2900	53.78	41	2.3
2900	55.93	42	2.3
2800	53.78	41	2.06
2800	55.93	41	2.2
2600	55.93	41	2
2500	53.78	41	1.9
3100	62.38	44	2.5
0	0	0	2.01
0	0	0	0
5000	45.18	36	3.4
3800	70.99	55	3.84
4700	55.93	46	4.1
4100	70.99	52	4
4600	55.93	44	3.8
4200	55.93	43	3.4
3900	58.08	42	3.1
3700	58.08	41	2.8
3600	55.93	41	2.75
3500	53.78	41	2.7
3400	53.78	40	2.6
3400	53.78	40	2.5
3300	55.93	40	2.5
3300	55.93	41	2.6
3200	55.93	40	2.4
3100	53.78	39	2.26

3100	55.93	39	2.3
3300	53.78	39	2.4
3800	55.93	42	3
4400	64.54	48	4
4100	66.69	51	4
3900	70.99	53	3.9
3500	75.29	56	3.64
3800	70.99	53	3.8
3900	70.99	52	3.8
3900	64.54	51	3.8
4200	60.23	48	3.8
4400	58.08	46	3.8
4700	55.93	42	3.7
4000	51.63	39	2.95
3600	53.78	39	2.7
3500	49.48	39	2.6
3400	53.78	39	2.5
3400	51.63	39	2.5
3400	53.78	38	2.4
3300	51.63	39	2.4
3300	53.78	39	2.5
3400	53.78	39	2.46
3500	53.78	39	2.5
3500	53.78	39	2.5
3400	55.93	38	2.4
3400	51.63	39	2.5
4000	55.93	41	3.1
4300	60.23	45	3.7
4500	60.23	46	3.84
3800	68.84	52	3.8
3600	68.84	53	3.7
3700	68.84	53	3.7
3900	64.54	50	3.7
4200	58.08	47	3.7
4300	60.23	46	3.8
4500	58.08	45	3.74
4300	51.63	41	3.3
3900	53.78	39	2.9
3800	51.63	39	2.8
3700	53.78	39	2.7
3500	49.48	39	2.5
3400	51.63	38	2.4
3300	49.48	38	2.26
3000	49.48	37	2.1

2800	51.63	37	1.9
2900	53.78	36	1.9
2600	47.33	36	1.8
2700	49.48	36	1.8
2600	49.48	36	1.7
2400	51.63	36	1.57
2900	51.63	37	2
3500	51.63	41	2.7
3900	53.78	43	3.2
4100	60.23	44	3.4
4100	55.93	45	3.5
4200	58.08	46	3.7
4400	58.08	45	3.7
4500	55.93	44	3.64
4500	53.78	44	3.7
4400	53.78	42	3.5
3600	49.48	39	2.7
3200	49.48	38	2.3
2900	47.33	37	2
3000	47.33	37	2.1
2600	45.18	36	1.77
2600	47.33	36	1.7
2600	49.48	35	1.7
2300	47.33	36	1.5
2400	49.48	36	1.6
2200	51.63	35	1.4
2000	49.48	35	1.3
1800	47.33	35	1.18
1800	51.63	35	1.2
1900	51.63	36	1.3
2300	45.18	34	1.5
3300	53.78	41	2.6
3900	55.93	44	3.2
4100	60.23	46	3.5
4000	60.23	48	3.54
4000	58.08	48	3.6
3900	62.38	49	3.6
4300	58.08	46	3.7
4500	53.78	44	3.7
4600	51.63	42	3.7
4000	51.63	39	3
3500	49.48	37	2.36
3200	47.33	36	2.2
3000	49.48	36	2

2800	45.18	35	1.8
2600	45.18	35	1.7
2600	45.18	35	1.7
2400	47.33	35	1.6
2100	47.33	34	1.38
2100	47.33	34	1.3
2000	47.33	34	1.3
2100	47.33	34	1.3
1700	47.33	33	1
1900	49.48	34	1.2
2600	53.78	36	1.8
3400	53.78	41	2.6
4000	58.08	44	3.34
4100	62.38	47	3.7
3800	64.54	49	3.5
3900	60.23	48	3.5
3800	60.23	48	3.6
4100	58.08	47	3.6
4200	55.93	46	3.6
4500	53.78	43	3.64
4400	51.63	39	3.2
3700	47.33	37	2.6
3500	47.33	36	2.4
3300	51.63	37	2.3
3000	47.33	36	2
2900	47.33	36	2
2900	51.63	36	1.87
2800	47.33	35	1.8
2600	49.48	34	1.6
2400	47.33	34	1.5
2200	47.33	34	1.4
2000	49.48	34	1.3
2000	49.48	34	1.3
2100	51.63	35	1.28
2600	49.48	36	1.8
3500	53.78	42	2.8
4100	55.93	44	3.4
3900	60.23	47	3.5
3700	64.54	49	3.4
3600	64.54	50	3.4
3600	62.38	50	3.34
3700	62.38	49	3.4
4000	60.23	47	3.5
4300	55.93	44	3.6

4400	49.48	39	3.2
3800	51.63	39	2.8
3400	49.48	38	2.4
3400	49.48	38	2.46
3200	47.33	37	2.2
2900	47.33	36	2
2700	47.33	35	1.8
2500	47.33	36	1.7
2500	47.33	35	1.7
2300	49.48	35	1.5
2200	47.33	35	1.5
2000	51.63	34	1.28
1900	51.63	34	1.2
1900	47.33	34	1.2
2500	51.63	37	1.7
3400	58.08	42	2.7
3800	58.08	46	3.3
3700	62.38	49	3.4
3500	64.54	51	3.24
3400	64.54	51	3.3
3600	66.69	50	3.4
3700	62.38	49	3.4
3700	62.38	48	3.4
4000	58.08	45	3.4
4200	53.78	41	3.3
3700	53.78	39	2.66
3200	49.48	38	2.3
3000	47.33	37	2.1
2900	51.63	37	2
2600	53.78	36	1.8
2500	49.48	35	1.6
2400	49.48	35	1.6
2300	49.48	35	1.48
2100	47.33	34	1.3
2100	49.48	35	1.4
2000	51.63	34	1.3
2000	51.63	34	1.3
2000	51.63	34	1.3
2400	51.63	36	1.6
3200	58.08	40	2.36
3800	55.93	43	3.1
3900	60.23	47	3.5
3900	60.23	48	3.5
3300	66.69	51	3.2

3900	58.08	47	3.5
3600	60.23	48	3.2
4000	58.08	46	3.44
4300	53.78	41	3.3
4100	53.78	39	3
3400	49.48	38	2.4
3300	51.63	37	2.3
3100	49.48	37	2.1
2900	49.48	37	2
2600	49.48	37	1.8
2500	51.63	36	1.67
2500	53.78	36	1.7
2400	53.78	36	1.7
2400	51.63	36	1.6
2400	51.63	36	1.6
2400	51.63	36	1.6
2400	51.63	36	1.6
2400	53.78	37	1.67
2800	51.63	38	2
3300	55.93	41	2.6
3800	55.93	44	3.2
4000	55.93	45	3.4
3900	62.38	46	3.4
3500	60.23	49	3.3
3500	62.38	48	3.15
3900	58.08	46	3.4
4100	60.23	45	3.5
4300	55.93	41	3.3
4000	51.63	40	3
3800	51.63	39	2.8
3700	51.63	39	2.7
3500	51.63	39	2.56
3400	51.63	39	2.5
3600	49.48	40	2.7
3400	51.63	40	2.5
3200	51.63	39	2.4
3200	51.63	39	2.3
3200	51.63	39	2.3
3100	53.78	39	2.26
3100	55.93	39	2.3
3100	51.63	39	2.2
3200	53.78	38	2.3
3100	53.78	39	2.3
3400	53.78	41	2.6

3800	58.08	44	3.2
4000	58.08	43	3.15
3900	62.38	45	3.4
4100	53.78	42	3.2
3900	58.08	45	3.3
4000	53.78	42	3.2
4200	53.78	42	3.3
3900	53.78	40	3
3600	51.63	38	2.6
3100	51.63	38	2.26
3200	51.63	38	2.3
3200	51.63	37	2.2
3200	51.63	38	2.3
3100	51.63	37	2.2
3100	51.63	37	2.2
3100	53.78	37	2.2
2900	49.48	37	1.97
2700	49.48	37	1.9
2700	51.63	36	1.8
2800	51.63	36	1.9
2800	51.63	36	1.9
2800	51.63	37	1.9
3000	53.78	38	2.1
3300	55.93	39	2.36
3600	55.93	42	2.8
3900	62.38	46	3.4
4000	58.08	44	3.3
4100	53.78	40	3.1
3900	60.23	44	3.2
4000	55.93	42	2.08
0	0	0	0
0	0	0	0.41
3700	45.18	36	2.46
4100	64.54	54	4.2
4100	64.54	53	4.1
4100	58.08	51	4
4200	60.23	50	3.9
4300	55.93	48	3.9
4500	51.63	46	3.9
4000	51.63	42	3.15
3600	51.63	40	2.7
3500	51.63	40	2.6
3300	49.48	39	2.4
3100	49.48	38	2.2

3000	47.33	37	2.1
2800	51.63	36	1.9
2600	49.48	37	1.77
2400	47.33	35	1.6
2200	49.48	36	1.5
1900	49.48	35	1.3
0	0	0	1.61
4700	51.63	36	3.2
4800	62.38	53	4.8
4700	66.69	55	4.82
4400	64.54	57	4.7
3900	68.84	61	4.5
4600	62.38	54	4.7
4300	62.38	56	4.6
5500	55.93	48	5
5800	49.48	46	5
5400	68.84	50	5.1
5400	62.38	46	4.62
5200	60.23	44	4.3
5100	58.08	44	4.3
5100	55.93	43	4
4900	58.08	43	3.9
4900	58.08	43	4
4800	58.08	43	3.9
4600	58.08	42	3.64
4600	58.08	42	3.6
4500	58.08	41	3.5
4200	58.08	41	3.3
4200	55.93	41	3.2
4100	60.23	40	3.1
4600	64.54	43	3.7
5100	68.84	49	4.62
4600	75.29	55	4.8
4400	81.75	57	2.19
0	0	0	0
1000	0	25	0.5
5400	154.89	40	4.1
3700	159.19	46	3.2
3100	154.89	47	2.75
3300	154.89	46	2.8
3200	154.89	47	2.8
3400	157.04	47	3
3500	159.19	46	3.1
3600	159.19	46	3.1

3600	163.49	46	3.1
3500	163.49	46	2.95
3400	163.49	46	2.9
3300	165.64	46	2.8
2900	167.79	46	2.5
2800	172.1	46	2.5
2900	167.79	46	2.5
2800	167.79	46	2.4
2900	167.79	46	2.5
2800	167.79	46	2.36
2600	172.1	46	2.2
2600	172.1	46	2.3
2600	172.1	46	2.3
2600	169.94	46	2.3
2600	169.94	46	2.3
3100	167.79	47	2.8
3600	163.49	47	3.15
3700	161.34	48	3.3
3700	161.34	48	3.3
3700	161.34	48	3.4
3800	163.49	47	3.4
3600	163.49	48	3.3
3600	161.34	48	3.3
3700	161.34	48	3.24
3700	163.49	47	3.3
3100	161.34	46	2.7
2900	157.04	44	2.4
2700	152.74	44	2.3
2800	146.28	42	2.2
2400	144.13	42	1.9
2500	144.13	42	1.97
2400	146.28	41	1.9
2500	146.28	42	2
2500	146.28	42	2
2600	146.28	42	2.1
2600	144.13	42	2
2500	144.13	42	2
2400	148.43	42	1.87
2700	154.89	44	2.2
2800	161.34	46	2.4
3400	163.49	48	3.1
3700	161.34	48	3.3
3400	159.19	49	3.2
3300	154.89	49	3.1

3600	157.04	49	3.34
3800	161.34	48	3.5
4000	154.89	46	3.5
3600	144.13	44	3
3400	135.53	43	2.7
3100	135.53	42	2.5
3000	137.68	42	2.4
3100	135.53	41	2.4
2800	135.53	41	2.06
2700	137.68	41	2.1
2600	135.53	40	2
2500	133.37	40	1.9
2600	131.22	39	1.9
2600	133.37	39	1.9
2500	133.37	39	1.8
2500	133.37	39	1.87
2600	131.22	39	1.9
2500	131.22	39	1.8
2400	141.98	41	1.9
2700	146.28	44	2.3
3400	159.19	47	3
3500	161.34	49	3.2
3600	157.04	49	3.34
3400	157.04	50	3.2
3500	157.04	49	3.3
4000	139.83	44	3.3
3400	135.53	41	2.6
3400	137.68	43	2.7
3300	129.07	40	2.5
3000	129.07	40	2.16
2800	133.37	40	2.1
2800	129.07	39	2.1
2600	129.07	40	1.9
2600	133.37	40	2
2600	129.07	39	1.9
2800	131.22	39	2.1
2600	131.22	40	1.87
2700	131.22	40	2
2700	135.53	39	2
2800	129.07	39	2
2400	129.07	39	1.7
2500	129.07	39	1.8
2600	131.22	40	1.9
2900	133.37	41	2.2

3200	146.28	45	2.66
3500	157.04	48	3.2
3700	133.37	43	3
3400	131.22	41	2.7
3500	152.74	48	3.2
4200	137.68	43	3.4
4100	129.07	41	3.1
3700	124.77	41	2.75
3400	124.77	40	2.6
3300	124.77	40	2.5
3000	124.77	39	2.2
2800	126.92	39	2
2800	124.77	38	2
2700	120.47	38	2
2500	122.62	38	1.77
2400	118.32	37	1.6
2300	120.47	37	1.6
2600	124.77	37	1.8
2300	120.47	37	1.6
2300	120.47	36	1.5
2400	118.32	36	1.6
2200	122.62	37	1.48
2500	129.07	38	1.8
2800	126.92	40	2.1
3300	135.53	43	2.7
3800	141.98	45	3.1
3800	139.83	45	3.2
3700	152.74	49	3.5
3800	154.89	49	3.44
3900	146.28	47	3.5
4000	137.68	45	3.4
4200	124.77	42	3.4
3700	116.16	39	2.8
3200	118.32	38	2.3
3000	114.01	37	2.1
2900	116.16	36	1.97
2500	116.16	36	1.7
2200	116.16	37	1.5
2300	120.47	36	1.5
2100	118.32	36	1.4
2100	122.62	37	1.4
1800	120.47	36	1.2
1900	120.47	36	1.3
1700	118.32	36	1.18

1800	118.32	36	1.2
1700	120.47	36	1.2
2000	124.77	37	1.4
2600	126.92	39	1.9
2900	131.22	42	2.3
3500	139.83	44	2.9
3500	157.04	49	3.24
3600	159.19	49	3.4
3600	159.19	49	3.3
3600	159.19	49	3.3
4200	135.53	43	3.4
3900	126.92	42	3.1
3600	120.47	38	2.6
2900	118.32	38	2.06
2900	114.01	37	2
2500	114.01	36	1.7
2200	114.01	36	1.5
1900	116.16	36	1.3
1800	116.16	36	1.2
1800	118.32	36	1.2
1700	120.47	36	1.08
1700	120.47	36	1.1
1400	118.32	36	1
1400	118.32	35	0.9
1300	118.32	36	0.9
1500	122.62	37	1.1
1900	126.92	38	1.3
2500	126.92	39	1.77
2700	133.37	43	2.2
3100	144.13	46	2.7
3400	159.19	50	3.2
3400	159.19	50	3.2
3400	157.04	50	3.2
3500	157.04	50	3.3
3900	146.28	47	3.5
4200	133.37	43	3.34
3900	114.01	39	2.9
3200	111.86	37	2.2
2800	111.86	37	2
2200	116.16	37	1.5
2200	114.01	36	1.5
2000	114.01	35	1.3
1900	116.16	36	1.28
1800	122.62	36	1.2

1700	118.32	36	1.1
1300	116.16	36	0.9
1300	118.32	36	0.9
1700	120.47	36	1.1
1800	116.16	36	1.2
1900	116.16	36	1.28
2000	118.32	37	1.4
2600	129.07	39	1.9
2800	133.37	42	2.2
3200	139.83	45	2.8
3600	159.19	49	3.3
3500	157.04	50	3.3
3500	154.89	50	3.24
3400	157.04	50	3.3
3600	154.89	50	3.4
4200	135.53	45	3.6
4300	129.07	42	1.7
0	0	0	0
0	0	0	0

4400	79.59	56	0
4400	79.59	56	0
4400	79.59	56	0
4400	79.59	56	0
4400	79.59	56	0
4400	79.59	56	0
4400	77.44	57	0
4400	79.59	56	0
4400	79.59	56	0
4400	79.59	57	0
4300	79.59	57	0
4300	79.59	57	0
4300	79.59	57	0
4300	79.59	57	0
4300	81.75	57	0
4300	79.59	57	0
4300	81.75	57	0
4300	79.59	57	0
4300	79.59	57	0
4300	81.75	57	0
4300	79.59	57	0

4400	79.59	57	0
4400	81.75	57	0
800	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

4300	124.77	42	0
4300	124.77	42	0
4300	124.77	42	0
4300	124.77	42	0
4300	124.77	42	0
4400	124.77	42	0
4400	126.92	42	0
4300	124.77	42	0
4300	126.92	42	0
4400	126.92	42	0
4300	124.77	42	0
4300	124.77	42	0
4400	126.92	42	0
4400	129.07	42	0
4500	129.07	42	0
4400	126.92	42	0
4400	129.07	42	0
4300	129.07	42	0
4300	129.07	42	0
4300	129.07	42	0
4200	129.07	42	0
4300	131.22	42	0
4300	129.07	42	0
4300	131.22	42	0
4400	131.22	42	0
4400	131.22	42	0
4300	129.07	42	0
4300	131.22	42	0
4300	131.22	42	0
4300	133.37	42	0

Cumulative Lbs Removed	Cumulative Gallons Removed	Mass Transfer Equation (indirectly based on Btu/hr estimate) Removed Lbs/Period	Cumulative Lbs Removed
0	0	0	0
0.7	0.11	0.74	0.74
1.3	0.21	0.56	1.3
1.79	0.29	0.48	1.78
2.19	0.35	0.48	2.26
2.59	0.42	0.41	2.67
3.39	0.55	0.78	3.46
4.49	0.72	1.1	4.55
6.09	0.98	1.63	6.18
8.09	1.31	2	8.18
10.35	1.67	2.29	10.47

12.65	2.04	2.28	12.75
14.95	2.41	2.26	15.02
17.15	2.77	2.24	17.25
19.15	3.09	1.98	19.23
21.55	3.48	2.34	21.56
23.85	3.85	2.33	23.89
26.05	4.2	2.15	26.04
27.43	4.42	1.39	27.43
28.63	4.62	1.23	28.66
29.83	4.81	1.27	29.93
31.03	5	1.23	31.16
32.23	5.2	1.19	32.35
33.33	5.38	1.13	33.48
34.53	5.57	1.17	34.66
35.51	5.73	0.99	35.65
36.51	5.89	1.02	36.66
37.51	6.05	0.98	37.64
38.41	6.2	0.93	38.57
39.21	6.32	0.78	39.36
39.91	6.44	0.74	40.1
40.91	6.6	0.99	41.09
42.19	6.81	1.28	42.37
43.79	7.06	1.64	44.01
45.99	7.42	2.14	46.15
48.29	7.79	2.26	48.42
50.29	8.11	1.97	50.38
52.09	8.4	1.84	52.22
53.99	8.71	1.93	54.15
55.66	8.98	1.65	55.8
57.56	9.28	1.89	57.69
58.96	9.51	1.43	59.13
60.16	9.7	1.19	60.31
61.16	9.87	1.02	61.33
62.06	10.01	0.96	62.29
62.96	10.16	0.96	63.24
63.85	10.3	0.87	64.11
64.95	10.48	1.06	65.17
65.65	10.59	0.76	65.93
66.45	10.72	0.81	66.74
67.25	10.85	0.85	67.59
68.05	10.98	0.81	68.4
68.75	11.09	0.73	69.13
69.44	11.2	0.69	69.81
70.24	11.33	0.84	70.65

70.53	11.38	0	70.65
70.53	11.38	0	70.65
72.83	11.75	2.28	72.93
75.93	12.25	3.03	75.96
79.43	12.81	3.47	79.43
82.93	13.38	3.34	82.77
86.33	13.92	3.29	86.06
89.77	14.48	3.35	89.42
93.27	15.04	3.42	92.84
97.17	15.67	3.88	96.71
101.17	16.32	3.88	100.59
105.07	16.95	3.82	104.41
108.67	17.53	3.49	107.9
112.17	18.09	3.4	111.3
115.41	18.62	3.27	114.57
118.71	19.15	3.24	117.81
121.81	19.65	3	120.81
124.51	20.08	2.71	123.52
127.41	20.55	2.85	126.37
130.11	20.99	2.68	129.05
132.71	21.41	2.54	131.59
135.37	21.83	2.64	134.23
139.17	22.45	3.78	138.01
142.47	22.98	3.19	141.2
145.57	23.48	3.1	144.3
148.47	23.95	2.79	147.09
151.47	24.43	2.95	150.04
154.47	24.91	2.95	152.99
157.42	25.39	2.81	155.8
160.52	25.89	3.07	158.87
163.72	26.41	3.13	162
167.32	26.99	3.52	165.53
171.22	27.62	3.85	169.38
174.62	28.16	3.36	172.74
177.62	28.65	2.88	175.63
180.62	29.13	2.95	178.58
183.18	29.54	2.54	181.12
185.58	29.93	2.37	183.49
187.88	30.3	2.22	185.7
189.98	30.64	2.06	187.76
192.18	31	2.11	189.88
193.98	31.29	1.86	191.74
195.78	31.58	1.79	193.53
197.45	31.85	1.69	195.22

199.05	32.1	1.57	196.78
200.85	32.39	1.8	198.58
203.75	32.86	2.89	201.47
207.45	33.46	3.65	205.12
210.55	33.96	2.97	208.09
213.45	34.43	2.82	210.91
216.1	34.86	2.58	213.49
218.8	35.29	2.62	216.11
221.6	35.74	2.66	218.78
224.4	36.19	2.74	221.52
227.4	36.68	2.96	224.47
230.5	37.18	3.02	227.49
234.2	37.77	3.63	231.13
237.64	38.33	3.38	234.51
240.74	38.83	3.12	237.62
243.64	39.3	2.88	240.51
246.24	39.72	2.5	243.01
248.54	40.09	2.29	245.3
250.74	40.44	2.14	247.44
253.04	40.81	2.22	249.66
255.34	41.18	2.27	251.93
257.41	41.52	2.1	254.03
259.61	41.87	2.14	256.17
261.61	42.19	1.99	258.16
263.51	42.5	1.91	260.07
266.01	42.9	2.54	262.61
268.02	43.23	0	262.61
268.02	43.23	0	262.61
271.42	43.78	3.35	265.96
275.25	44.4	3.83	269.79
279.35	45.06	4.03	273.82
283.35	45.7	3.97	277.8
287.15	46.31	3.77	281.57
290.55	46.86	3.37	284.93
293.65	47.36	3.05	287.99
296.45	47.81	2.83	290.81
299.2	48.26	2.7	293.52
301.9	48.69	2.67	296.19
304.5	49.11	2.53	298.73
307	49.52	2.53	301.26
309.5	49.92	2.46	303.72
312.1	50.34	2.52	306.24
314.5	50.73	2.39	308.63
316.77	51.09	2.22	310.84

319.07	51.46	2.25	313.09
321.47	51.85	2.4	315.49
324.47	52.33	2.97	318.47
328.47	52.98	3.94	322.4
332.47	53.62	3.9	326.3
336.37	54.25	3.85	330.15
340	54.84	3.59	333.74
343.8	55.45	3.75	337.5
347.6	56.07	3.78	341.27
351.4	56.68	3.71	344.98
355.2	57.29	3.76	348.74
359	57.9	3.77	352.51
362.7	58.5	3.68	356.19
365.65	58.98	2.86	359.05
368.35	59.41	2.62	361.66
370.95	59.83	2.54	364.21
373.45	60.23	2.47	366.68
375.95	60.64	2.47	369.15
378.35	61.02	2.41	371.56
380.75	61.41	2.4	373.95
383.25	61.82	2.4	376.35
385.71	62.21	2.43	378.78
388.21	62.61	2.54	381.33
390.71	63.02	2.54	383.87
393.11	63.41	2.41	386.28
395.61	63.81	2.47	388.75
398.71	64.31	3.06	391.8
402.41	64.91	3.61	395.41
406.25	65.52	3.79	399.2
410.05	66.14	3.68	402.89
413.75	66.73	3.56	406.44
417.45	67.33	3.65	410.1
421.15	67.93	3.63	413.73
424.85	68.52	3.68	417.41
428.65	69.14	3.69	421.09
432.38	69.74	3.71	424.8
435.68	70.27	3.29	428.09
438.58	70.74	2.83	430.92
441.38	71.19	2.76	433.69
444.08	71.63	2.69	436.38
446.58	72.03	2.54	438.92
448.98	72.42	2.41	441.33
451.25	72.78	2.3	443.62
453.35	73.12	2.07	445.69

455.25	73.43	1.93	447.62
457.15	73.73	1.95	449.57
458.95	74.02	1.74	451.31
460.75	74.31	1.81	453.12
462.45	74.59	1.74	454.87
464.02	74.84	1.58	456.45
466.02	75.16	2	458.45
468.72	75.6	2.67	461.13
471.92	76.12	3.13	464.25
475.32	76.66	3.36	467.61
478.82	77.23	3.44	471.05
482.52	77.83	3.6	474.65
486.22	78.42	3.69	478.34
489.86	79.01	3.63	481.97
493.56	79.61	3.69	485.66
497.06	80.17	3.44	489.1
499.76	80.61	2.62	491.72
502.06	80.98	2.27	493.98
504.06	81.3	2	495.98
506.16	81.64	2.07	498.05
507.93	81.92	1.72	499.77
509.63	82.2	1.74	501.51
511.33	82.47	1.7	503.21
512.83	82.71	1.54	504.75
514.43	82.97	1.61	506.36
515.83	83.2	1.43	507.79
517.13	83.41	1.3	509.1
518.31	83.6	1.15	510.25
519.51	83.79	1.17	511.43
520.81	84	1.27	512.7
522.31	84.24	1.46	514.16
524.91	84.66	2.52	516.68
528.11	85.18	3.2	519.88
531.61	85.74	3.51	523.39
535.15	86.31	3.52	526.91
538.75	86.89	3.58	530.49
542.35	87.48	3.56	534.05
546.05	88.07	3.69	537.74
549.75	88.67	3.69	541.43
553.45	89.27	3.6	545.03
556.45	89.75	2.91	547.93
558.81	90.13	2.37	550.31
561.01	90.48	2.15	552.45
563.01	90.81	2.01	554.47

564.81	91.1	1.83	556.29
566.51	91.37	1.7	557.99
568.21	91.65	1.7	559.68
569.81	91.9	1.57	561.25
571.18	92.13	1.31	562.56
572.48	92.34	1.33	563.89
573.78	92.55	1.27	565.15
575.08	92.76	1.33	566.49
576.08	92.92	1.05	567.53
577.28	93.11	1.2	568.73
579.08	93.4	1.74	570.48
581.68	93.82	2.6	573.08
585.03	94.36	3.23	576.3
588.73	94.96	3.59	579.89
592.23	95.52	3.47	583.36
595.73	96.08	3.49	586.85
599.33	96.67	3.4	590.25
602.93	97.25	3.59	593.84
606.53	97.83	3.6	597.44
610.17	98.41	3.55	600.99
613.37	98.93	3.2	604.18
615.97	99.35	2.55	606.74
618.37	99.74	2.35	609.08
620.67	100.11	2.28	611.36
622.67	100.43	2.01	613.37
624.67	100.75	1.95	615.32
626.53	101.05	1.91	617.23
628.33	101.34	1.83	619.06
629.93	101.6	1.65	620.7
631.43	101.84	1.52	622.22
632.83	102.07	1.39	623.62
634.13	102.28	1.27	624.88
635.43	102.49	1.27	626.15
636.71	102.7	1.35	627.5
638.51	102.99	1.74	629.24
641.31	103.44	2.74	631.98
644.71	103.99	3.36	635.34
648.21	104.55	3.42	638.76
651.61	105.1	3.38	642.14
655.01	105.65	3.35	645.49
658.36	106.19	3.3	648.79
661.76	106.73	3.38	652.17
665.26	107.3	3.5	655.67
668.86	107.88	3.53	659.2

672.06	108.4	3.2	662.4
674.86	108.85	2.76	665.16
677.26	109.23	2.41	667.57
679.71	109.63	2.37	669.93
681.91	109.99	2.21	672.14
683.91	110.31	1.95	674.08
685.71	110.6	1.76	675.85
687.41	110.87	1.68	677.52
689.11	111.15	1.63	679.15
690.61	111.39	1.5	680.65
692.11	111.63	1.43	682.09
693.39	111.84	1.25	683.33
694.59	112.03	1.2	684.54
695.79	112.22	1.2	685.74
697.49	112.5	1.72	687.47
700.19	112.93	2.66	690.13
703.49	113.47	3.26	693.38
706.89	114.01	3.38	696.76
710.14	114.54	3.27	700.03
713.44	115.07	3.23	703.27
716.84	115.62	3.35	706.62
720.24	116.17	3.38	710
723.64	116.72	3.31	713.31
727.04	117.26	3.35	716.66
730.34	117.8	3.21	719.87
732.99	118.22	2.64	722.51
735.29	118.6	2.27	724.78
737.39	118.93	2.07	726.85
739.39	119.26	2	728.85
741.19	119.55	1.74	730.59
742.79	119.81	1.63	732.22
744.39	120.06	1.57	733.79
745.87	120.3	1.48	735.26
747.17	120.51	1.33	736.59
748.57	120.74	1.37	737.96
749.87	120.95	1.27	739.23
751.17	121.16	1.27	740.5
752.47	121.37	1.27	741.77
754.07	121.62	1.61	743.38
756.43	122	2.35	745.72
759.53	122.5	3.04	748.77
763.03	123.07	3.42	752.18
766.53	123.63	3.49	755.67
769.73	124.15	3.14	758.81

773.23	124.71	3.42	762.22
776.43	125.23	3.22	765.44
779.87	125.79	3.37	768.81
783.17	126.32	3.29	772.1
786.17	126.8	2.98	775.08
788.57	127.19	2.41	777.49
790.87	127.56	2.28	779.76
792.97	127.9	2.14	781.9
794.97	128.22	2	783.9
796.77	128.51	1.79	785.69
798.44	128.78	1.65	787.34
800.14	129.05	1.68	789.02
801.84	129.33	1.61	790.63
803.44	129.59	1.61	792.24
805.04	129.85	1.61	793.85
806.64	130.1	1.61	795.46
808.24	130.36	1.61	797.07
809.91	130.63	1.63	798.7
811.91	130.95	1.98	800.68
814.51	131.37	2.52	803.2
817.71	131.89	3.12	806.31
821.11	132.44	3.35	809.67
824.51	132.99	3.34	813.01
827.81	133.52	3.2	816.21
830.96	134.03	3.08	819.29
834.36	134.57	3.34	822.63
837.86	135.14	3.44	826.07
841.16	135.67	3.29	829.35
844.16	136.15	2.98	832.33
846.96	136.61	2.76	835.1
849.66	137.04	2.69	837.79
852.22	137.45	2.5	840.29
854.72	137.86	2.47	842.76
857.42	138.29	2.68	845.44
859.92	138.7	2.53	847.98
862.32	139.08	2.33	850.3
864.62	139.45	2.33	852.63
866.92	139.83	2.33	854.95
869.18	140.19	2.22	857.17
871.48	140.56	2.25	859.42
873.68	140.92	2.25	861.67
875.98	141.29	2.27	863.94
878.28	141.66	2.25	866.19
880.88	142.08	2.6	868.79

884.08	142.59	3.12	871.91
887.22	143.1	3.15	875.06
890.62	143.65	3.27	878.33
893.82	144.17	3.21	881.54
897.12	144.7	3.27	884.81
900.32	145.21	3.13	887.94
903.62	145.75	3.29	891.23
906.62	146.23	2.91	894.13
909.22	146.65	2.55	896.68
911.49	147.01	2.16	898.84
913.79	147.38	2.27	901.11
915.99	147.74	2.21	903.31
918.29	148.11	2.27	905.58
920.49	148.47	2.14	907.72
922.69	148.82	2.14	909.85
924.89	149.18	2.14	911.99
926.85	149.49	1.97	913.96
928.75	149.8	1.86	915.82
930.55	150.09	1.81	917.63
932.45	150.4	1.88	919.51
934.35	150.7	1.88	921.39
936.25	151.01	1.93	923.32
938.35	151.35	2.12	925.44
940.71	151.73	2.36	927.8
943.51	152.18	2.82	930.62
946.91	152.73	3.34	933.96
950.21	153.26	3.28	937.24
953.31	153.76	3.06	940.3
956.51	154.28	3.2	943.49
958.59	154.61	2.03	945.53
958.59	154.61	0	945.53
959	154.68	0	945.53
961.46	155.07	2.44	947.97
965.66	155.75	4.13	952.1
969.76	156.41	4.05	956.14
973.76	157.06	3.9	960.04
977.66	157.69	3.91	963.95
981.56	158.32	3.85	967.8
985.46	158.94	3.86	971.66
988.6	159.45	3.08	974.74
991.3	159.89	2.68	977.42
993.9	160.31	2.61	980.03
996.3	160.69	2.4	982.43
998.5	161.05	2.2	984.62

1000.6	161.39	2.07	986.69
1002.5	161.69	1.88	988.57
1004.27	161.98	1.76	990.33
1005.87	162.24	1.57	991.9
1007.37	162.48	1.48	993.37
1008.67	162.69	1.24	994.61
1010.29	162.95	0	994.61
1013.49	163.47	3.15	997.77
1018.29	164.24	4.74	1002.51
1023.11	165.02	4.74	1007.24
1027.81	165.78	4.67	1011.92
1032.31	166.5	4.43	1016.35
1037.01	167.26	4.63	1020.98
1041.61	168	4.49	1025.47
1046.61	168.81	4.92	1030.39
1051.61	169.61	4.97	1035.36
1056.71	170.44	5.03	1040.39
1061.33	171.18	4.55	1044.94
1065.63	171.88	4.26	1049.2
1069.93	172.57	4.18	1053.39
1073.93	173.21	4.09	1057.47
1077.83	173.84	3.93	1061.4
1081.83	174.49	3.93	1065.33
1085.73	175.12	3.85	1069.17
1089.37	175.7	3.54	1072.71
1092.97	176.28	3.6	1076.31
1096.47	176.85	3.44	1079.75
1099.77	177.38	3.21	1082.96
1102.97	177.9	3.21	1086.17
1106.07	178.4	3.06	1089.22
1109.77	178.99	3.69	1092.91
1114.39	179.74	4.58	1097.49
1119.19	180.51	4.71	1102.2
1121.38	180.87	2.18	1104.38
1121.38	180.87	0	1104.38
1121.88	180.95	0.47	1104.85
1125.98	181.61	4.03	1108.88
1129.18	182.13	3.17	1112.05
1131.93	182.57	2.67	1114.72
1134.73	183.02	2.83	1117.55
1137.53	183.47	2.8	1120.35
1140.53	183.96	2.98	1123.33
1143.63	184.46	3	1126.33
1146.73	184.96	3.09	1129.41

1149.83	185.46	3.09	1132.5
1152.78	185.93	2.95	1135.45
1155.68	186.4	2.91	1138.36
1158.48	186.85	2.83	1141.19
1160.98	187.26	2.49	1143.68
1163.48	187.66	2.4	1146.08
1165.98	188.06	2.49	1148.56
1168.38	188.45	2.4	1150.96
1170.88	188.85	2.49	1153.45
1173.24	189.23	2.36	1155.81
1175.44	189.59	2.23	1158.04
1177.74	189.96	2.23	1160.27
1180.04	190.33	2.23	1162.5
1182.34	190.7	2.23	1164.73
1184.64	191.07	2.23	1166.95
1187.44	191.52	2.72	1169.67
1190.59	192.03	3.1	1172.77
1193.89	192.56	3.31	1176.08
1197.19	193.1	3.31	1179.39
1200.59	193.64	3.31	1182.7
1203.99	194.19	3.33	1186.03
1207.29	194.72	3.22	1189.25
1210.59	195.26	3.22	1192.47
1213.84	195.78	3.25	1195.72
1217.14	196.31	3.24	1198.96
1219.84	196.75	2.66	1201.62
1222.24	197.13	2.38	1204
1224.54	197.51	2.21	1206.21
1226.74	197.86	2.19	1208.4
1228.64	198.17	1.88	1210.28
1230.6	198.48	1.92	1212.2
1232.5	198.79	1.83	1214.04
1234.5	199.11	1.96	1215.99
1236.5	199.44	1.96	1217.95
1238.6	199.77	2.03	1219.99
1240.6	200.1	2.03	1222.02
1242.6	200.42	1.96	1223.98
1244.47	200.72	1.85	1225.82
1246.67	201.08	2.21	1228.04
1249.07	201.46	2.4	1230.44
1252.17	201.96	3.04	1233.48
1255.47	202.5	3.31	1236.79
1258.67	203.01	3.1	1239.89
1261.77	203.51	3.01	1242.91

1265.11	204.05	3.23	1246.14
1268.61	204.62	3.4	1249.54
1272.11	205.18	3.43	1252.97
1275.11	205.66	2.95	1255.92
1277.81	206.1	2.72	1258.64
1280.31	206.5	2.43	1261.07
1282.71	206.89	2.35	1263.42
1285.11	207.28	2.37	1265.79
1287.18	207.61	2.1	1267.89
1289.28	207.95	2.06	1269.95
1291.28	208.27	1.94	1271.89
1293.18	208.58	1.86	1273.75
1295.08	208.88	1.89	1275.64
1296.98	209.19	1.89	1277.53
1298.78	209.48	1.82	1279.35
1300.65	209.78	1.79	1281.14
1302.55	210.09	1.89	1283.03
1304.35	210.38	1.82	1284.84
1306.25	210.69	1.83	1286.68
1308.55	211.06	2.21	1288.89
1311.55	211.54	2.98	1291.87
1314.75	212.06	3.2	1295.06
1318.09	212.6	3.23	1298.3
1321.29	213.11	3.17	1301.46
1324.59	213.64	3.2	1304.66
1327.89	214.18	3.28	1307.94
1330.49	214.6	2.6	1310.54
1333.19	215.03	2.72	1313.26
1335.69	215.43	2.46	1315.72
1337.85	215.78	2.2	1317.92
1339.95	216.12	2.09	1320.01
1342.05	216.46	2.03	1322.04
1343.95	216.77	1.94	1323.98
1345.95	217.09	1.94	1325.92
1347.85	217.4	1.89	1327.81
1349.95	217.73	2.03	1329.84
1351.82	218.04	1.91	1331.75
1353.82	218.36	2.01	1333.76
1355.82	218.68	1.96	1335.72
1357.82	219	2.03	1337.76
1359.52	219.28	1.74	1339.5
1361.32	219.57	1.82	1341.32
1363.22	219.87	1.94	1343.26
1365.42	220.23	2.22	1345.47

1368.08	220.66	2.64	1348.11
1371.28	221.17	3.13	1351.24
1374.28	221.66	2.96	1354.21
1376.98	222.09	2.6	1356.81
1380.18	222.61	3.13	1359.94
1383.58	223.16	3.37	1363.3
1386.68	223.66	3.13	1366.43
1389.43	224.1	2.78	1369.21
1392.03	224.52	2.53	1371.75
1394.53	224.92	2.46	1374.21
1396.73	225.28	2.18	1376.39
1398.73	225.6	2.03	1378.42
1400.73	225.92	1.98	1380.41
1402.73	226.25	1.91	1382.32
1404.5	226.53	1.74	1384.06
1406.1	226.79	1.65	1385.71
1407.7	227.05	1.59	1387.3
1409.5	227.34	1.79	1389.09
1411.1	227.6	1.59	1390.68
1412.6	227.84	1.54	1392.22
1414.2	228.1	1.61	1393.83
1415.68	228.33	1.49	1395.32
1417.48	228.63	1.77	1397.09
1419.58	228.96	2.09	1399.18
1422.28	229.4	2.64	1401.82
1425.38	229.9	3.19	1405.01
1428.58	230.42	3.19	1408.2
1432.08	230.98	3.38	1411.58
1435.52	231.54	3.41	1414.99
1439.02	232.1	3.42	1418.4
1442.42	232.65	3.35	1421.76
1445.82	233.2	3.29	1425.05
1448.62	233.65	2.69	1427.73
1450.92	234.02	2.27	1430
1453.02	234.36	2.07	1432.07
1454.98	234.67	1.91	1433.98
1456.68	234.95	1.68	1435.66
1458.18	235.19	1.52	1437.18
1459.68	235.43	1.54	1438.72
1461.08	235.66	1.41	1440.13
1462.48	235.88	1.45	1441.58
1463.68	236.08	1.21	1442.78
1464.98	236.29	1.27	1444.06
1466.16	236.48	1.12	1445.18

1467.36	236.67	1.21	1446.39
1468.56	236.87	1.14	1447.53
1469.96	237.09	1.38	1448.91
1471.86	237.4	1.89	1450.8
1474.16	237.77	2.27	1453.07
1477.06	238.24	2.87	1455.93
1480.31	238.76	3.14	1459.08
1483.71	239.31	3.29	1462.36
1487.01	239.84	3.29	1465.65
1490.31	240.37	3.29	1468.94
1493.71	240.92	3.37	1472.3
1496.81	241.42	3.05	1475.36
1499.41	241.84	2.55	1477.91
1501.47	242.17	2.02	1479.93
1503.47	242.5	2	1481.92
1505.17	242.77	1.68	1483.6
1506.67	243.01	1.48	1485.08
1507.97	243.22	1.27	1486.35
1509.17	243.42	1.21	1487.56
1510.37	243.61	1.21	1488.77
1511.46	243.78	1.12	1489.89
1512.56	243.96	1.14	1491.03
1513.56	244.12	0.94	1491.97
1514.46	244.27	0.91	1492.88
1515.36	244.41	0.87	1493.75
1516.46	244.59	1.03	1494.79
1517.76	244.8	1.35	1496.13
1519.53	245.08	1.79	1497.92
1521.73	245.44	2.16	1500.08
1524.43	245.88	2.66	1502.74
1527.63	246.39	3.17	1505.91
1530.83	246.91	3.17	1509.08
1534.03	247.42	3.17	1512.24
1537.33	247.96	3.26	1515.51
1540.83	248.52	3.42	1518.92
1544.17	249.06	3.31	1522.23
1547.07	249.53	2.83	1525.07
1549.27	249.88	2.21	1527.27
1551.27	250.2	1.93	1529.2
1552.77	250.45	1.52	1530.72
1554.27	250.69	1.48	1532.2
1555.57	250.9	1.3	1533.5
1556.85	251.1	1.25	1534.75
1558.05	251.3	1.21	1535.96

1559.15	251.48	1.14	1537.1
1560.05	251.62	0.87	1537.97
1560.95	251.77	0.87	1538.85
1562.05	251.94	1.14	1539.99
1563.25	252.14	1.21	1541.19
1564.53	252.34	1.25	1542.45
1565.93	252.57	1.38	1543.83
1567.83	252.88	1.89	1545.71
1570.03	253.23	2.19	1547.91
1572.83	253.68	2.68	1550.59
1576.13	254.21	3.29	1553.88
1579.43	254.75	3.26	1557.14
1582.67	255.27	3.21	1560.34
1585.97	255.8	3.17	1563.51
1589.37	256.35	3.35	1566.87
1592.97	256.93	3.52	1570.39
1594.67	257.2	1.68	1572.07
1594.67	257.2	0	1572.07
1594.67	257.2	0	1572.07

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Cumulative Gallons Removed	Cubic Feet Processed Cumulative	Cumulative Time (hours)	Delta Time (Hours)
0	0	0	0
0.12	1260	1	1
0.21	2460	2	1
0.29	3640	2.98	0.98
0.37	4840	3.98	1
0.43	6040	4.98	1
0.56	7300	5.98	1
0.73	8560	6.98	1
1	9940	7.98	1
1.32	11440	8.98	1
1.69	12974	9.97	0.98

2.06	14414	10.97	1
2.42	16034	11.97	1
2.78	17474	12.97	1
3.1	18674	13.97	1
3.48	19994	14.97	1
3.85	21434	15.97	1
4.2	22874	16.97	1
4.42	24054	17.95	0.98
4.62	25254	18.95	1
4.83	26454	19.95	1
5.03	27654	20.95	1
5.22	28854	21.95	1
5.4	30114	22.95	1
5.59	31374	23.95	1
5.75	32554	24.93	0.98
5.91	33814	25.93	1
6.07	35074	26.93	1
6.22	36274	27.93	1
6.35	37474	28.93	1
6.47	38554	29.93	1
6.63	39694	30.93	1
6.83	40874	31.92	0.98
7.1	42194	32.92	1
7.44	43694	33.92	1
7.81	45314	34.92	1
8.13	46634	35.92	1
8.42	47894	36.92	1
8.73	49274	37.92	1
9	50572	38.9	0.98
9.3	51952	39.9	1
9.54	53272	40.9	1
9.73	54592	41.9	1
9.89	55852	42.9	1
10.05	56992	43.9	1
10.2	58132	44.9	1
10.34	59253	45.88	0.98
10.51	60513	46.88	1
10.63	61533	47.88	1
10.76	62613	48.88	1
10.9	63753	49.88	1
11.03	64893	50.88	1
11.15	65913	51.88	1
11.26	66916	52.87	0.98
11.4	67996	53.87	1

11.4	67996	54.35	0.48
11.4	67996	57.72	3.37
11.76	70036	58.72	1
12.25	73516	59.72	1
12.81	77236	60.72	1
13.35	81376	61.72	1
13.88	85456	62.72	1
14.42	89055	63.7	0.98
14.97	92115	64.7	1
15.6	95235	65.7	1
16.22	98355	66.7	1
16.84	101355	67.7	1
17.4	104235	68.7	1
17.95	107115	69.7	1
18.48	109888	70.68	0.98
19	112708	71.68	1
19.49	115468	72.68	1
19.92	118108	73.68	1
20.38	120808	74.68	1
20.81	123508	75.68	1
21.22	126148	76.68	1
21.65	128803	77.67	0.98
22.26	131923	78.67	1
22.77	135343	79.67	1
23.27	139183	80.67	1
23.72	143263	81.67	1
24.2	147223	82.67	1
24.68	151183	83.67	1
25.13	154959	84.65	0.98
25.62	158619	85.65	1
26.13	162219	86.65	1
26.7	165459	87.65	1
27.32	168279	88.65	1
27.86	170919	89.65	1
28.33	173499	90.65	1
28.8	176139	91.65	1
29.21	178617	92.63	0.98
29.59	181077	93.63	1
29.95	183537	94.63	1
30.28	185997	95.63	1
30.63	188517	96.63	1
30.93	190917	97.63	1
31.21	193317	98.63	1
31.49	195677	99.62	0.98

31.74	198077	100.62	1
32.03	200597	101.62	1
32.5	203417	102.62	1
33.08	206777	103.62	1
33.56	210317	104.62	1
34.02	214097	105.62	1
34.43	218050	106.6	0.98
34.86	222070	107.6	1
35.29	225970	108.6	1
35.73	229810	109.6	1
36.21	233470	110.6	1
36.69	236710	111.6	1
37.28	239710	112.6	1
37.82	242365	113.58	0.98
38.33	245005	114.58	1
38.79	247585	115.58	1
39.2	250105	116.58	1
39.57	252565	117.58	1
39.91	255025	118.58	1
40.27	257485	119.58	1
40.63	260005	120.58	1
40.97	262424	121.57	0.98
41.32	264884	122.57	1
41.64	267344	123.57	1
41.95	269804	124.57	1
42.36	272444	125.57	1
42.36	272444	126.28	0.72
42.36	272444	130.05	3.77
42.9	274604	131.05	1
43.52	277849	132.03	0.98
44.17	280609	133.03	1
44.81	283729	134.03	1
45.41	286369	135.03	1
45.96	288949	136.03	1
46.45	291469	137.03	1
46.91	293929	138.03	1
47.34	296348	139.02	0.98
47.77	298808	140.02	1
48.18	301208	141.02	1
48.59	303608	142.02	1
48.99	306008	143.02	1
49.39	308468	144.02	1
49.78	310868	145.02	1
50.14	313169	146	0.98

50.5	315509	147	1
50.89	317849	148	1
51.37	320369	149	1
52	323249	150	1
52.63	326309	151	1
53.25	329489	152	1
53.83	332793	152.98	0.98
54.43	335973	153.98	1
55.04	339093	154.98	1
55.64	342153	155.98	1
56.25	345033	156.98	1
56.86	347793	157.98	1
57.45	350313	158.98	1
57.91	352614	159.97	0.98
58.33	354954	160.97	1
58.74	357294	161.97	1
59.14	359634	162.97	1
59.54	361974	163.97	1
59.93	364254	164.97	1
60.32	366594	165.97	1
60.7	368934	166.97	1
61.09	371235	167.95	0.98
61.5	373575	168.95	1
61.91	375915	169.95	1
62.3	378195	170.95	1
62.7	380535	171.95	1
63.19	382995	172.95	1
63.78	385695	173.95	1
64.39	388409	174.93	0.98
64.98	391529	175.93	1
65.56	394709	176.93	1
66.14	397889	177.93	1
66.73	400889	178.93	1
67.32	403709	179.93	1
67.92	406469	180.93	1
68.52	409124	181.92	0.98
69.05	411584	182.92	1
69.5	413924	183.92	1
69.95	416264	184.92	1
70.38	418604	185.92	1
70.79	420944	186.92	1
71.18	423224	187.92	1
71.55	425466	188.9	0.98
71.89	427686	189.9	1

72.2	429906	190.9	1
72.51	432066	191.9	1
72.79	434226	192.9	1
73.08	436386	193.9	1
73.37	438546	194.9	1
73.62	440670	195.88	0.98
73.94	442890	196.88	1
74.38	445350	197.88	1
74.88	447930	198.88	1
75.42	450570	199.88	1
75.98	453270	200.88	1
76.56	456030	201.88	1
77.15	458730	202.88	1
77.74	461326	203.87	0.98
78.33	463966	204.87	1
78.89	466486	205.87	1
79.31	468826	206.87	1
79.67	471106	207.87	1
80	473326	208.87	1
80.33	475546	209.87	1
80.61	477670	210.85	0.98
80.89	479830	211.85	1
81.16	481930	212.85	1
81.41	484090	213.85	1
81.67	486250	214.85	1
81.9	488350	215.85	1
82.11	490450	216.85	1
82.3	492515	217.83	0.98
82.49	494615	218.83	1
82.69	496775	219.83	1
82.93	498815	220.83	1
83.34	501275	221.83	1
83.85	503915	222.83	1
84.42	506675	223.83	1
84.99	509507	224.82	0.98
85.56	512387	225.82	1
86.14	515327	226.82	1
86.73	518087	227.82	1
87.33	520727	228.82	1
87.91	523247	229.82	1
88.38	525587	230.82	1
88.76	527770	231.8	0.98
89.11	529930	232.8	1
89.43	532090	233.8	1

89.72	534190	234.8	1
90	536290	235.8	1
90.27	538390	236.8	1
90.52	540490	237.8	1
90.74	542496	238.78	0.98
90.95	544536	239.78	1
91.15	546576	240.78	1
91.37	548616	241.78	1
91.54	550596	242.78	1
91.73	552636	243.78	1
92.01	554796	244.78	1
92.43	557256	245.78	1
92.95	559852	246.77	0.98
93.53	562672	247.77	1
94.09	565612	248.77	1
94.65	568492	249.77	1
95.2	571372	250.77	1
95.78	574192	251.77	1
96.36	576952	252.77	1
96.93	579489	253.75	0.98
97.45	581829	254.75	1
97.86	584049	255.75	1
98.24	586209	256.75	1
98.61	588429	257.75	1
98.93	590589	258.75	1
99.24	592749	259.75	1
99.55	594873	260.73	0.98
99.85	596973	261.73	1
100.11	599013	262.73	1
100.36	601053	263.73	1
100.58	603093	264.73	1
100.79	605133	265.73	1
100.99	607173	266.73	1
101.21	609238	267.72	0.98
101.49	611398	268.72	1
101.93	613918	269.72	1
102.47	616558	270.72	1
103.03	619378	271.72	1
103.57	622318	272.72	1
104.11	625318	273.72	1
104.64	628268	274.7	0.98
105.19	631208	275.7	1
105.75	634028	276.7	1
106.32	636668	277.7	1

106.84	639008	278.7	1
107.28	641348	279.7	1
107.67	643628	280.7	1
108.05	645870	281.68	0.98
108.41	648090	282.68	1
108.72	650250	283.68	1
109.01	652350	284.68	1
109.28	654510	285.68	1
109.54	656610	286.68	1
109.78	658710	287.68	1
110.01	660810	288.68	1
110.22	662816	289.67	0.98
110.41	664856	290.67	1
110.6	666896	291.67	1
110.88	669116	292.67	1
111.31	671636	293.67	1
111.84	674396	294.67	1
112.38	677336	295.67	1
112.91	680345	296.65	0.98
113.43	683405	297.65	1
113.97	686405	298.65	1
114.52	689345	299.65	1
115.05	692225	300.65	1
115.59	694925	301.65	1
116.11	697385	302.65	1
116.53	699686	303.63	0.98
116.9	701966	304.63	1
117.23	704186	305.63	1
117.56	706406	306.63	1
117.84	708566	307.63	1
118.1	710666	308.63	1
118.35	712766	309.63	1
118.59	714831	310.62	0.98
118.81	716871	311.62	1
119.03	718971	312.62	1
119.23	721011	313.62	1
119.44	723051	314.62	1
119.64	725091	315.62	1
119.9	727251	316.62	1
120.28	729611	317.6	0.98
120.77	732191	318.6	1
121.32	735011	319.6	1
121.88	737891	320.6	1
122.39	740951	321.6	1

122.94	743771	322.6	1
123.46	746651	323.6	1
124	749365	324.58	0.98
124.53	751825	325.58	1
125.01	754165	326.58	1
125.4	756445	327.58	1
125.77	758665	328.58	1
126.11	760885	329.58	1
126.44	763105	330.58	1
126.72	765325	331.58	1
126.99	767449	332.57	0.98
127.26	769609	333.57	1
127.52	771769	334.57	1
127.78	773929	335.57	1
128.04	776089	336.57	1
128.3	778249	337.57	1
128.56	780409	338.57	1
128.82	782592	339.55	0.98
129.14	784872	340.55	1
129.55	787332	341.55	1
130.05	789972	342.55	1
130.59	792672	343.55	1
131.13	795432	344.55	1
131.65	798372	345.55	1
132.14	801204	346.53	0.98
132.68	803964	347.53	1
133.24	806664	348.53	1
133.77	809124	349.53	1
134.25	811524	350.53	1
134.69	813864	351.53	1
135.13	816204	352.53	1
135.53	818505	353.52	0.98
135.93	820845	354.52	1
136.36	823245	355.52	1
136.77	825645	356.52	1
137.15	827985	357.52	1
137.52	830325	358.52	1
137.9	832665	359.52	1
138.25	834966	360.5	0.98
138.62	837306	361.5	1
138.98	839646	362.5	1
139.35	841926	363.5	1
139.71	844266	364.5	1
140.13	846726	365.5	1

140.63	849366	366.5	1
141.14	851903	367.48	0.98
141.67	854603	368.48	1
142.18	857123	369.48	1
142.71	859823	370.48	1
143.22	862343	371.48	1
143.75	864863	372.48	1
144.21	867263	373.48	1
144.63	869543	374.48	1
144.97	871785	375.47	0.98
145.34	874065	376.47	1
145.7	876285	377.47	1
146.06	878565	378.47	1
146.41	880785	379.47	1
146.75	883005	380.47	1
147.1	885225	381.47	1
147.41	887408	382.45	0.98
147.71	889628	383.45	1
148	891788	384.45	1
148.31	893948	385.45	1
148.61	896108	386.45	1
148.92	898328	387.45	1
149.26	900608	388.45	1
149.65	902909	389.43	0.98
150.1	905429	390.43	1
150.64	908189	391.43	1
151.17	910829	392.43	1
151.66	913229	393.43	1
152.18	915869	394.43	1
152.5	917507	395.08	0.65
152.5	917507	398.8	3.72
152.5	917507	400.83	2.03
152.9	919631	401.82	0.98
153.56	922871	402.82	1
154.22	926051	403.82	1
154.85	929111	404.82	1
155.48	932111	405.82	1
156.1	934991	406.82	1
156.72	937751	407.82	1
157.22	940229	408.8	0.98
157.65	942629	409.8	1
158.07	945029	410.8	1
158.46	947369	411.8	1
158.81	949649	412.8	1

159.14	951869	413.8	1
159.45	954029	414.8	1
159.73	956212	415.78	0.98
159.98	958312	416.78	1
160.22	960472	417.78	1
160.42	962572	418.78	1
160.42	962572	422.82	4.03
160.93	964732	423.82	1
161.69	967912	424.82	1
162.46	971157	425.8	0.98
163.21	974577	426.8	1
163.93	978237	427.8	1
164.67	981477	428.8	1
165.4	984837	429.8	1
166.19	987717	430.8	1
166.99	990477	431.8	1
167.8	993477	432.8	1
168.54	996191	433.78	0.98
169.23	998831	434.78	1
169.9	1001471	435.78	1
170.56	1004051	436.78	1
171.19	1006631	437.78	1
171.83	1009211	438.78	1
172.45	1011791	439.78	1
173.02	1014269	440.77	0.98
173.6	1016789	441.77	1
174.15	1019249	442.77	1
174.67	1021709	443.77	1
175.19	1024169	444.77	1
175.68	1026569	445.77	1
176.28	1029149	446.77	1
177.01	1032040	447.75	0.98
177.77	1035340	448.75	1
178.13	1036936	449.22	0.47
178.13	1036936	452.79	3.57
178.2	1038436	453.79	1
178.85	1040836	454.79	1
179.36	1043596	455.79	1
179.79	1046369	456.77	0.98
180.25	1049129	457.77	1
180.7	1051949	458.77	1
181.18	1054769	459.77	1
181.67	1057529	460.77	1
182.16	1060289	461.77	1

182.66	1063049	462.77	1
183.14	1065763	463.75	0.98
183.61	1068523	464.75	1
184.06	1071283	465.75	1
184.46	1074043	466.75	1
184.85	1076803	467.75	1
185.25	1079563	468.75	1
185.64	1082323	469.75	1
186.04	1085083	470.75	1
186.42	1087797	471.74	0.98
186.78	1090557	472.74	1
187.14	1093317	473.74	1
187.5	1096077	474.74	1
187.86	1098837	475.74	1
188.22	1101597	476.74	1
188.66	1104417	477.74	1
189.16	1107190	478.72	0.98
189.69	1110070	479.72	1
190.22	1112950	480.72	1
190.76	1115830	481.72	1
191.29	1118650	482.72	1
191.81	1121530	483.72	1
192.33	1124410	484.72	1
192.86	1127242	485.7	0.98
193.38	1130062	486.7	1
193.81	1132822	487.7	1
194.19	1135462	488.7	1
194.55	1138102	489.7	1
194.9	1140622	490.7	1
195.21	1143142	491.7	1
195.52	1145620	492.69	0.98
195.81	1148080	493.69	1
196.13	1150600	494.69	1
196.44	1153120	495.69	1
196.77	1155640	496.69	1
197.1	1158160	497.69	1
197.42	1160680	498.69	1
197.71	1163158	499.67	0.98
198.07	1165798	500.67	1
198.46	1168558	501.67	1
198.95	1171438	502.67	1
199.48	1174318	503.67	1
199.98	1177258	504.67	1
200.47	1180198	505.67	1

200.99	1183089	506.65	0.98
201.54	1185969	507.65	1
202.09	1188729	508.65	1
202.57	1191369	509.65	1
203.01	1193949	510.65	1
203.4	1196469	511.65	1
203.78	1198989	512.65	1
204.16	1201449	513.65	1
204.5	1203868	514.64	0.98
204.83	1206328	515.64	1
205.14	1208728	516.64	1
205.44	1211128	517.64	1
205.75	1213468	518.64	1
206.05	1215808	519.64	1
206.35	1218148	520.64	1
206.63	1220449	521.62	0.98
206.94	1222789	522.62	1
207.23	1225129	523.62	1
207.53	1227589	524.62	1
207.89	1230229	525.62	1
208.37	1233049	526.62	1
208.88	1235989	527.62	1
209.4	1238880	528.6	0.98
209.91	1241880	529.6	1
210.43	1244820	530.6	1
210.96	1247460	531.6	1
211.38	1249920	532.6	1
211.82	1252500	533.6	1
212.21	1254900	534.6	1
212.57	1257260	535.59	0.98
212.9	1259660	536.59	1
213.23	1262000	537.59	1
213.55	1264400	538.59	1
213.86	1266800	539.59	1
214.16	1269140	540.59	1
214.49	1271480	541.59	1
214.8	1273840	542.57	0.98
215.12	1276240	543.57	1
215.44	1278580	544.57	1
215.77	1280920	545.57	1
216.05	1283260	546.57	1
216.34	1285600	547.57	1
216.65	1288000	548.57	1
217.01	1290460	549.57	1

217.44	1293115	550.55	0.98
217.94	1295995	551.55	1
218.42	1298575	552.55	1
218.84	1301035	553.55	1
219.34	1303915	554.55	1
219.89	1306495	555.55	1
220.39	1308955	556.55	1
220.84	1311374	557.54	0.98
221.25	1313774	558.54	1
221.65	1316174	559.54	1
222	1318514	560.54	1
222.33	1320854	561.54	1
222.65	1323134	562.54	1
222.95	1325414	563.54	1
223.24	1327656	564.52	0.98
223.5	1329876	565.52	1
223.76	1332096	566.52	1
224.05	1334316	567.52	1
224.3	1336536	568.52	1
224.55	1338696	569.52	1
224.81	1340856	570.52	1
225.05	1343039	571.5	0.98
225.34	1345319	572.5	1
225.67	1347719	573.5	1
226.1	1350299	574.5	1
226.61	1352999	575.5	1
227.13	1355699	576.5	1
227.67	1358639	577.5	1
228.22	1361530	578.49	0.98
228.77	1364350	579.49	1
229.32	1367050	580.49	1
229.85	1369570	581.49	1
230.28	1371910	582.49	1
230.65	1374190	583.49	1
230.98	1376410	584.49	1
231.29	1378534	585.47	0.98
231.56	1380694	586.47	1
231.8	1382914	587.47	1
232.05	1385074	588.47	1
232.28	1387234	589.47	1
232.51	1389454	590.47	1
232.71	1391614	591.47	1
232.91	1393774	592.47	1
233.09	1395898	593.45	0.98

233.29	1398058	594.45	1
233.47	1400218	595.45	1
233.69	1402438	596.45	1
234	1404778	597.45	1
234.37	1407298	598.45	1
234.83	1409938	599.45	1
235.34	1412829	600.44	0.98
235.87	1415769	601.44	1
236.4	1418709	602.44	1
236.93	1421649	603.44	1
237.47	1424229	604.44	1
237.96	1426749	605.44	1
238.37	1429029	606.44	1
238.7	1431271	607.42	0.98
239.02	1433491	608.42	1
239.29	1435651	609.42	1
239.53	1437811	610.42	1
239.73	1439971	611.42	1
239.93	1442131	612.42	1
240.12	1444291	613.42	1
240.3	1446415	614.4	0.98
240.49	1448575	615.4	1
240.64	1450735	616.4	1
240.79	1452835	617.4	1
240.93	1454995	618.4	1
241.09	1457215	619.4	1
241.31	1459495	620.4	1
241.6	1461796	621.39	0.98
241.95	1464376	622.39	1
242.38	1467136	623.39	1
242.89	1470136	624.39	1
243.4	1473136	625.39	1
243.91	1476136	626.39	1
244.44	1479136	627.39	1
244.99	1481956	628.39	1
245.52	1484493	629.37	0.98
245.98	1486833	630.37	1
246.33	1489053	631.37	1
246.65	1491273	632.37	1
246.89	1493493	633.37	1
247.13	1495653	634.37	1
247.34	1497753	635.37	1
247.54	1499877	636.35	0.98
247.74	1502037	637.35	1

247.92	1504197	638.35	1
248.06	1506357	639.35	1
248.2	1508517	640.35	1
248.38	1510677	641.35	1
248.58	1512837	642.35	1
248.78	1514961	643.34	0.98
249	1517181	644.34	1
249.31	1519521	645.34	1
249.66	1522041	646.34	1
250.1	1524741	647.34	1
250.63	1527681	648.34	1
251.15	1530681	649.34	1
251.67	1533631	650.32	0.98
252.18	1536631	651.32	1
252.72	1539631	652.32	1
253.29	1542331	653.32	1
253.56	1543591	653.82	0.5
253.56	1543591	657.41	3.59
253.56	1543591	657.45	0.03

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Remediation Service Int'l
4835 Colt Unit D
Ventura CA 93003
805.644.8382
805.644.8378 FAX
www.rsi-save.com

231692

Report Generator Version 1.4

Date of Report:	7/28/2014
Project Name:	Refinery AES unit june 2014
Unit ID:	246
Controller S/N:	207
Software version:	844

Date Range From:	5/28/2014 15:11
Date Range To :	6/30/2014 23:06
Lbs. Removed/Period:	1530.89
Gal Removed/Period:	246.9
SCF Processed/Period:	772110

There are no express or implied warranties for fitness of use or any other purpose of the data
See report footnotes for disclaimer details and other technical information relating to calculat

Installed Flow Boxes: Box1 - Y Box2 - N Box3 - N

Mass Transfer Btu/Hr
Approach:

Time Stamp	Murphy Status	Op Status	BTU/Hr(est)
05-28-2014 15:11	SNAPSHOT	Auto	50000
05-28-2014 16:10	O2	Auto	530000
05-28-2014 17:10	O2	Auto	542000
05-28-2014 18:10	O2	Auto	546000
05-28-2014 18:13	BLO_T	Auto	546000
06-02-2014 14:36	BLO_T	Auto	546000
06-02-2014 14:43	SNAPSHOT	Auto	546000
06-02-2014 15:43	O2	Auto	168000
06-02-2014 16:43	O2	Auto	174000
06-02-2014 17:43	O2	Auto	170000
06-02-2014 18:43	O2	Auto	164000

06-02-2014	19:42	O2	Auto	152000
06-02-2014	20:20	H2O_S	Auto	120000
06-03-2014	10:37	SNAPSHOT	Auto	120000
06-03-2014	11:37	O2	Auto	346000
06-03-2014	12:36	O2	Auto	366000
06-03-2014	13:36	O2	Auto	362000
06-03-2014	14:36	O2	Auto	486000
06-03-2014	14:38	H2O_S	Auto	370000
06-03-2014	15:04	SNAPSHOT	Auto	370000
06-03-2014	16:04	O2	Auto	226000
06-03-2014	16:23	H2O_S	Auto	198000
06-06-2014	08:56	SNAPSHOT	Auto	198000
06-06-2014	09:56	O2	Auto	418000
06-06-2014	10:42	H2O_S	Auto	414000
06-06-2014	15:45	SNAPSHOT	Auto	414000
06-06-2014	16:45	O2	Auto	138000
06-06-2014	17:45	O2	Auto	138000
06-06-2014	18:45	O2	Auto	134000
06-06-2014	19:45	O2	Auto	124000
06-06-2014	20:44	O2	Auto	114000
06-06-2014	21:44	O2	Auto	108000
06-06-2014	22:44	O2	Auto	106000
06-06-2014	23:44	O2	Auto	110000
06-07-2014	00:44	O2	Auto	114000
06-07-2014	01:44	O2	Auto	112000
06-07-2014	02:44	O2	Auto	110000
06-07-2014	03:43	O2	Auto	112000
06-07-2014	04:43	O2	Auto	108000
06-07-2014	05:43	O2	Auto	106000
06-07-2014	05:45	H2O_S	Auto	108000
06-09-2014	09:03	H2O_S	Manual	108000
06-09-2014	09:11	SNAPSHOT	Auto	108000
06-09-2014	10:11	O2	Auto	290000
06-09-2014	11:11	O2	Auto	290000
06-09-2014	12:10	O2	Auto	286000
06-09-2014	13:10	O2	Auto	286000
06-09-2014	14:10	O2	Auto	282000
06-09-2014	15:10	O2	Auto	282000
06-09-2014	16:10	O2	Auto	278000
06-09-2014	17:10	O2	Auto	282000
06-09-2014	18:10	O2	Auto	286000
06-09-2014	19:09	O2	Auto	290000
06-09-2014	20:09	O2	Auto	290000
06-09-2014	21:09	O2	Auto	294000

06-09-2014	22:09	O2	Auto	298000
06-09-2014	23:09	O2	Auto	294000
06-10-2014	00:09	O2	Auto	294000
06-10-2014	01:09	O2	Auto	290000
06-10-2014	01:56	H2O_S	Auto	290000
06-11-2014	16:02	SNAPSHOT	Auto	290000
06-11-2014	17:02	O2	Auto	78000
06-11-2014	18:01	O2	Auto	72000
06-11-2014	19:01	O2	Auto	78000
06-11-2014	20:01	O2	Auto	78000
06-11-2014	21:01	O2	Auto	78000
06-11-2014	22:01	O2	Auto	80000
06-11-2014	23:01	O2	Auto	80000
06-12-2014	00:01	O2	Auto	84000
06-12-2014	01:00	O2	Auto	88000
06-12-2014	01:39	H2O_S	Auto	90000
06-12-2014	08:48	SNAPSHOT	Auto	90000
06-12-2014	09:48	O2	Auto	90000
06-12-2014	10:48	O2	Auto	94000
06-12-2014	11:48	O2	Auto	92000
06-12-2014	12:48	O2	Auto	94000
06-12-2014	13:48	O2	Auto	94000
06-12-2014	14:47	O2	Auto	94000
06-12-2014	15:47	O2	Auto	94000
06-12-2014	16:47	O2	Auto	102000
06-12-2014	17:47	O2	Auto	100000
06-12-2014	18:47	O2	Auto	104000
06-12-2014	19:35	H2O_S	Auto	106000
06-13-2014	08:37	SNAPSHOT	Auto	106000
06-13-2014	09:37	O2	Auto	88000
06-13-2014	10:37	O2	Auto	96000
06-13-2014	11:37	O2	Auto	102000
06-13-2014	12:37	O2	Auto	98000
06-13-2014	13:37	O2	Auto	98000
06-13-2014	14:36	O2	Auto	100000
06-13-2014	15:36	O2	Auto	98000
06-13-2014	16:36	O2	Auto	98000
06-13-2014	17:36	O2	Auto	94000
06-13-2014	18:36	O2	Auto	94000
06-13-2014	19:36	O2	Auto	90000
06-13-2014	20:36	O2	Auto	88000
06-13-2014	21:35	O2	Auto	88000
06-13-2014	22:35	O2	Auto	86000
06-13-2014	23:35	O2	Auto	86000

06-14-2014	00:35	O2	Auto	86000
06-14-2014	01:35	O2	Auto	86000
06-14-2014	02:35	O2	Auto	84000
06-14-2014	03:35	O2	Auto	84000
06-14-2014	04:34	O2	Auto	84000
06-14-2014	05:34	O2	Auto	84000
06-14-2014	06:34	O2	Auto	86000
06-14-2014	07:34	O2	Auto	92000
06-14-2014	08:34	O2	Auto	92000
06-14-2014	09:34	O2	Auto	90000
06-14-2014	10:34	O2	Auto	90000
06-14-2014	11:33	O2	Auto	92000
06-14-2014	12:33	O2	Auto	92000
06-14-2014	13:33	O2	Auto	92000
06-14-2014	14:33	O2	Auto	92000
06-14-2014	15:33	O2	Auto	92000
06-14-2014	16:33	O2	Auto	92000
06-14-2014	17:33	O2	Auto	88000
06-14-2014	18:32	O2	Auto	86000
06-14-2014	19:32	O2	Auto	84000
06-14-2014	20:32	O2	Auto	82000
06-14-2014	21:32	O2	Auto	80000
06-14-2014	22:32	O2	Auto	82000
06-14-2014	23:32	O2	Auto	52000
06-15-2014	00:32	O2	Auto	80000
06-15-2014	01:31	O2	Auto	76000
06-15-2014	02:31	O2	Auto	52000
06-15-2014	03:31	O2	Auto	72000
06-15-2014	04:31	O2	Auto	70000
06-15-2014	05:31	O2	Auto	68000
06-15-2014	06:31	O2	Auto	10000
06-15-2014	07:31	O2	Auto	86000
06-15-2014	08:30	O2	Auto	86000
06-15-2014	09:30	O2	Auto	88000
06-15-2014	10:30	O2	Auto	90000
06-15-2014	11:30	O2	Auto	92000
06-15-2014	12:30	O2	Auto	92000
06-15-2014	13:30	O2	Auto	90000
06-15-2014	14:30	O2	Auto	90000
06-15-2014	15:29	O2	Auto	90000
06-15-2014	16:29	O2	Auto	88000
06-15-2014	17:29	O2	Auto	88000
06-15-2014	18:29	O2	Auto	84000
06-15-2014	19:29	O2	Auto	80000

06-15-2014	20:29	O2	Auto	78000
06-15-2014	21:29	O2	Auto	78000
06-15-2014	22:28	O2	Auto	78000
06-15-2014	23:28	O2	Auto	78000
06-16-2014	00:28	O2	Auto	78000
06-16-2014	01:28	O2	Auto	78000
06-16-2014	02:28	O2	Auto	76000
06-16-2014	03:28	O2	Auto	76000
06-16-2014	04:28	O2	Auto	76000
06-16-2014	05:27	O2	Auto	76000
06-16-2014	06:27	O2	Auto	78000
06-16-2014	07:27	O2	Auto	80000
06-16-2014	08:27	O2	Auto	82000
06-16-2014	09:27	O2	Auto	84000
06-16-2014	10:27	O2	Auto	78000
06-16-2014	11:27	O2	Auto	76000
06-16-2014	12:27	O2	Auto	48000
06-16-2014	13:26	O2	Auto	80000
06-16-2014	14:26	O2	Auto	84000
06-16-2014	15:26	O2	Auto	76000
06-16-2014	16:26	O2	Auto	88000
06-16-2014	17:26	O2	Auto	98000
06-16-2014	18:26	O2	Auto	102000
06-16-2014	19:19	H2O_S	Auto	106000
06-17-2014	14:03	SNAPSHOT	Auto	106000
06-17-2014	14:59	SHUTDOWN	Auto	12000
06-17-2014	15:04	SNAPSHOT	Auto	12000
06-17-2014	16:03	O2	Auto	48000
06-17-2014	17:03	O2	Auto	50000
06-17-2014	18:03	O2	Auto	52000
06-17-2014	19:03	O2	Auto	56000
06-17-2014	20:03	O2	Auto	60000
06-17-2014	20:57	H2O_S	Auto	64000
06-18-2014	08:38	SNAPSHOT	Auto	64000
06-18-2014	09:38	O2	Auto	64000
06-18-2014	10:38	O2	Auto	70000
06-18-2014	11:37	O2	Auto	74000
06-18-2014	12:37	O2	Auto	74000
06-18-2014	13:37	O2	Auto	68000
06-18-2014	13:55	H2O_S	Auto	70000
06-18-2014	15:43	SNAPSHOT	Auto	70000
06-18-2014	16:43	O2	Auto	56000
06-18-2014	17:42	O2	Auto	64000
06-18-2014	18:42	O2	Auto	70000

06-18-2014	19:42	O2	Auto	72000
06-18-2014	20:42	O2	Auto	80000
06-18-2014	21:42	O2	Auto	80000
06-18-2014	22:42	O2	Auto	86000
06-18-2014	23:42	O2	Auto	86000
06-19-2014	00:41	O2	Auto	86000
06-19-2014	01:41	O2	Auto	90000
06-19-2014	02:41	O2	Auto	86000
06-19-2014	03:41	O2	Auto	86000
06-19-2014	04:00	H2O_S	Auto	86000
06-19-2014	08:26	SNAPSHOT	Auto	86000
06-19-2014	09:26	O2	Auto	154000
06-19-2014	10:26	O2	Auto	150000
06-19-2014	11:26	O2	Auto	148000
06-19-2014	12:16	H2O_S	Auto	158000
06-24-2014	08:43	SNAPSHOT	Auto	158000
06-24-2014	08:45	SHUTDOWN	Auto	42000
06-24-2014	12:28	SNAPSHOT	Auto	42000
06-24-2014	13:28	O2	Auto	2000
06-24-2014	14:28	O2	Auto	4000
06-24-2014	15:27	O2	Auto	4000
06-24-2014	16:27	O2	Auto	8000
06-24-2014	17:27	O2	Auto	2000
06-24-2014	18:27	O2	Auto	2000
06-24-2014	19:27	O2	Auto	0
06-24-2014	20:27	O2	Auto	0
06-24-2014	21:27	O2	Auto	0
06-24-2014	22:26	O2	Auto	0
06-24-2014	23:26	O2	Auto	0
06-25-2014	00:26	O2	Auto	0
06-25-2014	01:26	O2	Auto	0
06-25-2014	02:26	O2	Auto	0
06-25-2014	03:26	O2	Auto	0
06-25-2014	04:26	O2	Auto	0
06-25-2014	05:25	O2	Auto	0
06-25-2014	06:25	O2	Auto	0
06-25-2014	07:25	O2	Auto	0
06-25-2014	08:25	O2	Auto	0
06-25-2014	09:25	O2	Auto	0
06-25-2014	10:25	O2	Auto	0
06-25-2014	11:25	O2	Auto	0
06-25-2014	12:24	O2	Auto	0
06-25-2014	13:24	O2	Auto	0
06-25-2014	14:24	O2	Auto	2000

06-25-2014	15:24	O2	Auto	4000
06-25-2014	16:24	O2	Auto	48000
06-25-2014	17:24	O2	Auto	52000
06-25-2014	18:24	O2	Auto	58000
06-25-2014	19:24	O2	Auto	54000
06-25-2014	20:23	O2	Auto	52000
06-25-2014	21:23	O2	Auto	50000
06-25-2014	22:23	O2	Auto	52000
06-25-2014	23:23	O2	Auto	56000
06-26-2014	00:23	O2	Auto	60000
06-26-2014	01:23	O2	Auto	64000
06-26-2014	02:23	O2	Auto	66000
06-26-2014	03:22	O2	Auto	68000
06-26-2014	04:22	O2	Auto	74000
06-26-2014	05:22	O2	Auto	74000
06-26-2014	06:22	O2	Auto	76000
06-26-2014	07:22	O2	Auto	78000
06-26-2014	08:22	O2	Auto	74000
06-26-2014	09:22	O2	Auto	74000
06-26-2014	10:21	O2	Auto	72000
06-26-2014	11:21	O2	Auto	64000
06-26-2014	12:21	O2	Auto	62000
06-26-2014	13:21	O2	Auto	62000
06-26-2014	14:21	O2	Auto	58000
06-26-2014	15:21	O2	Auto	66000
06-26-2014	16:21	O2	Auto	74000
06-26-2014	17:20	O2	Auto	76000
06-26-2014	18:20	O2	Auto	78000
06-26-2014	19:20	O2	Auto	76000
06-26-2014	20:20	O2	Auto	76000
06-26-2014	21:20	O2	Auto	78000
06-26-2014	22:20	O2	Auto	76000
06-26-2014	23:20	O2	Auto	74000
06-27-2014	00:19	O2	Auto	74000
06-27-2014	01:19	O2	Auto	74000
06-27-2014	02:19	O2	Auto	74000
06-27-2014	03:19	O2	Auto	74000
06-27-2014	04:19	O2	Auto	72000
06-27-2014	05:19	O2	Auto	72000
06-27-2014	06:19	O2	Auto	72000
06-27-2014	07:18	O2	Auto	72000
06-27-2014	08:18	O2	Auto	68000
06-27-2014	09:18	O2	Auto	68000
06-27-2014	10:18	O2	Auto	66000

06-27-2014	11:18	O2	Auto	66000
06-27-2014	12:18	O2	Auto	62000
06-27-2014	13:18	O2	Auto	60000
06-27-2014	14:17	O2	Auto	56000
06-27-2014	15:17	O2	Auto	60000
06-27-2014	16:17	O2	Auto	64000
06-27-2014	17:17	O2	Auto	62000
06-27-2014	18:17	O2	Auto	64000
06-27-2014	19:17	O2	Auto	66000
06-27-2014	20:17	O2	Auto	68000
06-27-2014	21:16	O2	Auto	66000
06-27-2014	22:16	O2	Auto	68000
06-27-2014	23:16	O2	Auto	68000
06-28-2014	00:16	O2	Auto	70000
06-28-2014	01:16	O2	Auto	68000
06-28-2014	02:16	O2	Auto	70000
06-28-2014	03:16	O2	Auto	70000
06-28-2014	04:15	O2	Auto	70000
06-28-2014	05:15	O2	Auto	70000
06-28-2014	06:15	O2	Auto	70000
06-28-2014	07:15	O2	Auto	68000
06-28-2014	08:15	O2	Auto	62000
06-28-2014	09:15	O2	Auto	62000
06-28-2014	10:15	O2	Auto	60000
06-28-2014	11:14	O2	Auto	60000
06-28-2014	12:14	O2	Auto	58000
06-28-2014	13:14	O2	Auto	56000
06-28-2014	14:14	O2	Auto	56000
06-28-2014	15:14	O2	Auto	62000
06-28-2014	16:14	O2	Auto	30000
06-28-2014	17:14	O2	Auto	62000
06-28-2014	18:13	O2	Auto	64000
06-28-2014	19:13	O2	Auto	66000
06-28-2014	20:13	O2	Auto	66000
06-28-2014	21:13	O2	Auto	66000
06-28-2014	22:13	O2	Auto	64000
06-28-2014	23:13	O2	Auto	64000
06-29-2014	00:13	O2	Auto	64000
06-29-2014	01:12	O2	Auto	64000
06-29-2014	02:12	O2	Auto	64000
06-29-2014	03:12	O2	Auto	66000
06-29-2014	04:12	O2	Auto	66000
06-29-2014	05:12	O2	Auto	66000
06-29-2014	06:12	O2	Auto	64000

06-29-2014	07:12	O2	Auto	62000
06-29-2014	08:11	O2	Auto	60000
06-29-2014	09:11	O2	Auto	58000
06-29-2014	10:11	O2	Auto	56000
06-29-2014	11:11	O2	Auto	56000
06-29-2014	12:11	O2	Auto	58000
06-29-2014	13:11	O2	Auto	54000
06-29-2014	14:11	O2	Auto	54000
06-29-2014	15:10	O2	Auto	56000
06-29-2014	16:10	O2	Auto	52000
06-29-2014	17:10	O2	Auto	58000
06-29-2014	18:10	O2	Auto	58000
06-29-2014	19:10	O2	Auto	62000
06-29-2014	20:10	O2	Auto	64000
06-29-2014	21:10	O2	Auto	62000
06-29-2014	22:09	O2	Auto	60000
06-29-2014	23:09	O2	Auto	60000
06-30-2014	00:09	O2	Auto	60000
06-30-2014	01:09	O2	Auto	60000
06-30-2014	02:09	O2	Auto	60000
06-30-2014	03:09	O2	Auto	62000
06-30-2014	04:09	O2	Auto	60000
06-30-2014	05:08	O2	Auto	60000
06-30-2014	06:08	O2	Auto	60000
06-30-2014	07:08	O2	Auto	60000
06-30-2014	08:08	O2	Auto	56000
06-30-2014	09:08	O2	Auto	54000
06-30-2014	10:08	O2	Auto	52000
06-30-2014	11:08	O2	Auto	54000
06-30-2014	12:08	O2	Auto	48000
06-30-2014	13:07	O2	Auto	54000
06-30-2014	14:07	O2	Auto	52000
06-30-2014	15:07	O2	Auto	32000
06-30-2014	16:07	O2	Auto	50000
06-30-2014	17:07	O2	Auto	50000
06-30-2014	18:07	O2	Auto	34000
06-30-2014	19:06	O2	Auto	58000
06-30-2014	20:06	O2	Auto	60000
06-30-2014	21:06	O2	Auto	58000
06-30-2014	22:06	O2	Auto	56000
06-30-2014	23:06	O2	Auto	58000

Fast Buffer 1

07-11-2014	18:37	O2	Auto	114000
07-11-2014	18:37	O2	Auto	114000
07-11-2014	18:37	O2	Auto	114000
07-11-2014	18:38	O2	Auto	112000
07-11-2014	18:38	O2	Auto	112000
07-11-2014	18:38	O2	Auto	112000
07-11-2014	18:38	O2	Auto	114000
07-11-2014	18:38	O2	Auto	114000
07-11-2014	18:38	O2	Auto	114000
07-11-2014	18:39	O2	Auto	114000
07-11-2014	18:39	O2	Auto	114000
07-11-2014	18:39	O2	Auto	116000
07-11-2014	18:39	O2	Auto	116000
07-11-2014	18:39	O2	Auto	114000
07-11-2014	18:39	O2	Auto	114000
07-11-2014	18:40	O2	Auto	114000
07-11-2014	18:40	O2	Auto	114000
07-11-2014	18:40	O2	Auto	114000
07-11-2014	18:40	O2	Auto	114000
07-11-2014	18:40	O2	Auto	114000
07-11-2014	18:40	O2	Auto	114000
07-11-2014	18:41	O2	Auto	114000
07-11-2014	18:41	O2	Auto	114000
07-11-2014	18:41	O2	Auto	114000
07-11-2014	18:41	O2	Auto	114000
07-11-2014	18:41	O2	Auto	114000
07-11-2014	18:41	O2	Auto	114000
07-11-2014	18:42	O2	Auto	114000
07-11-2014	18:42	O2	Auto	114000
07-11-2014	18:42	O2	Auto	114000

Fast Buffer 2

07-08-2014	12:53	O2	Auto	0
07-08-2014	12:54	O2	Auto	0
07-08-2014	12:54	O2	Auto	0
07-08-2014	12:54	O2	Auto	0
07-08-2014	12:54	O2	Auto	0
07-08-2014	12:54	O2	Auto	0
07-08-2014	12:54	O2	Auto	0
07-08-2014	12:55	O2	Auto	0
07-08-2014	12:55	O2	Auto	0

07-08-2014	12:55	O2	Auto	0
07-08-2014	12:55	O2	Auto	0
07-08-2014	12:55	O2	Auto	0
07-08-2014	12:55	O2	Auto	0
07-08-2014	12:56	O2	Auto	0
07-08-2014	12:56	O2	Auto	0
07-08-2014	12:56	O2	Auto	0
07-08-2014	12:56	O2	Auto	0
07-08-2014	12:56	O2	Auto	0
07-08-2014	12:56	O2	Auto	0
07-08-2014	12:57	O2	Auto	0
07-08-2014	12:57	O2	Auto	0
07-08-2014	12:57	O2	Auto	0
07-08-2014	12:57	O2	Auto	0
07-08-2014	12:57	O2	Auto	0
07-08-2014	12:57	O2	Auto	0
07-08-2014	12:58	O2	Auto	0
07-08-2014	12:58	O2	Auto	0
07-08-2014	12:58	O2	Auto	0
07-08-2014	12:58	O2	Auto	0
07-08-2014	12:58	O2	Auto	0

Assumptions:

20000	Btu/lb
6.2	lb/gallon of gasoline
120	Mole Weight of Extracted VOC
2520	Btu/Cubic Foot of Propane
1000	Btu/Cubic Foot of Natural Gas

Parts/Million by Volume (PPMV) Conversion to Micrograms/Liter (ug/L)
(PPMV/24.055)*AVG. Mole Weight=ug/L

Mass Transfer Equation to Convert to Pounds/Hour:
(ug/L)*(Flow SCFM)*28.3 L/SCF*60 Minutes/Hour*2.2 lbs/Kg*(1/10^9)

contained herein.
ion procedures.

PPMV(est)	Well/Process Vac (In-H2O)	Well/Process Flow (SCFM)	Removed Lbs/Period
0	0	10	0
70200	101.11	20	26.06
68300	101.11	21	27.1
68800	98.96	21	27.3
68800	98.96	21	1.37
0	0	10	0
0	0	10	0
20300	98.96	22	8.4
21900	98.96	21	8.7
21500	98.96	21	8.5
20700	101.11	21	8.2

19100	101.11	21	7.47
20000	124.77	16	3.8
0	0	10	0
46100	98.96	20	17.3
48500	98.96	20	18
48200	101.11	20	18.1
64400	101.11	20	24.3
61500	124.77	16	0.62
0	0	10	0
24200	96.8	25	11.3
35000	152.74	15	3.14
0	0	11	0
41000	96.8	27	20.9
44000	98.96	25	15.87
0	0	10	0
13500	38.72	27	6.9
13100	34.42	28	6.9
12300	36.57	29	6.7
11300	40.87	29	6.2
10400	51.63	29	5.61
9600	60.23	30	5.4
9400	62.38	30	5.3
9400	64.54	31	5.5
10000	68.84	30	5.7
9500	73.14	31	5.6
9300	75.29	31	5.5
9200	79.59	32	5.51
9000	81.75	32	5.4
8800	83.9	32	5.3
9000	86.05	32	0.18
0	0	10	0
0	0	11	0
25700	43.02	30	14.5
24100	45.18	32	14.5
23600	51.63	32	14.06
23700	58.08	32	14.3
23500	58.08	32	14.1
22800	60.23	33	14.1
23000	62.38	32	13.9
21900	66.69	34	14.1
22900	70.99	33	14.3
23200	70.99	33	14.26
22700	79.59	34	14.5
23000	86.05	34	14.7

23100	90.35	34	14.9
22900	90.35	34	14.7
22200	96.8	35	14.7
22600	94.65	34	14.5
22600	101.11	34	11.36
0	0	10	0
6800	43.02	30	3.9
6300	53.78	31	3.54
6200	62.38	33	3.9
6100	68.84	34	3.9
6100	70.99	34	3.9
6100	77.44	35	4
6000	81.75	35	4
6400	81.75	35	4.2
6600	83.9	35	4.33
6800	94.65	35	2.93
0	0	10	0
7500	53.78	32	4.5
7300	64.54	34	4.7
7100	64.54	34	4.6
7300	64.54	34	4.7
7100	66.69	35	4.7
7300	68.84	34	4.62
7100	68.84	35	4.7
7600	73.14	35	5.1
7500	75.29	35	5
7800	77.44	35	5.2
7800	88.2	36	4.24
0	0	10	0
3500	36.57	67	4.4
4000	30.12	64	4.8
4400	25.81	61	5.1
4500	23.66	58	4.9
4600	23.66	57	4.9
4700	21.51	56	4.92
4700	21.51	55	4.9
4800	21.51	54	4.9
4600	21.51	54	4.7
4700	19.36	53	4.7
4500	21.51	53	4.5
4400	19.36	53	4.4
4500	19.36	52	4.33
4300	21.51	53	4.3
4400	17.21	52	4.3

4300	17.21	52	4.3
4300	17.21	52	4.3
4400	17.21	51	4.2
4300	17.21	51	4.2
4300	17.21	51	4.13
4400	15.06	50	4.2
4500	17.21	51	4.3
4600	19.36	52	4.6
4500	19.36	53	4.6
4400	19.36	54	4.5
4500	19.36	53	4.5
4600	19.36	53	4.52
4600	19.36	53	4.6
4600	19.36	53	4.6
4700	19.36	52	4.6
4600	19.36	52	4.6
4600	19.36	52	4.6
4500	19.36	52	4.4
4400	19.36	52	4.23
4400	17.21	51	4.2
4300	17.21	51	4.1
4200	15.06	50	4
4400	15.06	49	4.1
2900	12.91	48	2.6
4500	15.06	47	4
4400	12.91	46	3.74
3000	12.91	46	2.6
4100	15.06	46	3.6
4000	12.91	46	3.5
3900	12.91	46	3.4
600	15.06	47	0.5
4500	17.21	50	4.3
4300	19.36	52	4.23
4400	17.21	53	4.4
4600	17.21	52	4.5
4600	19.36	53	4.6
4600	19.36	53	4.6
4500	19.36	53	4.5
4500	19.36	53	4.5
4600	19.36	52	4.43
4600	19.36	51	4.4
4500	19.36	51	4.4
4400	17.21	51	4.2
4200	17.21	51	4

4100	17.21	51	3.9
4100	17.21	51	3.9
4100	17.21	50	3.84
4100	17.21	50	3.9
4100	15.06	50	3.9
4200	15.06	49	3.9
4100	15.06	49	3.8
4200	15.06	48	3.8
4200	15.06	48	3.8
4300	12.91	47	3.74
4400	15.06	47	3.9
4100	17.21	52	4
4100	17.21	52	4.1
5900	86.05	37	4.2
5800	79.59	36	3.9
5600	75.29	36	3.8
3600	75.29	35	2.4
6100	77.44	35	3.93
6600	77.44	34	4.2
5900	79.59	34	3.8
6700	83.9	35	4.4
7200	86.05	36	4.9
7500	92.5	36	5.1
7800	96.8	36	4.68
0	0	8	0
0	0	14	0.56
0	0	8	0
3900	60.23	33	2.36
3700	75.29	36	2.5
3800	77.44	36	2.6
4000	88.2	38	2.8
4200	96.8	38	3
4400	98.96	38	2.88
0	0	8	0
4800	68.84	35	3.2
5000	81.75	37	3.5
5100	90.35	38	3.64
5200	92.5	38	3.7
4800	83.9	38	3.4
4800	90.35	38	1.05
0	0	7	0
4000	79.59	37	2.8
4300	90.35	39	3.15
4700	98.96	39	3.5

4900	98.96	39	3.6
5500	98.96	38	4
5800	101.11	37	4
6200	101.11	37	4.3
6300	101.11	36	4.3
6400	98.96	36	4.23
6600	98.96	36	4.5
6400	98.96	36	4.3
6300	101.11	37	4.3
6300	101.11	36	1.36
0	0	8	0
10500	92.5	39	7.7
9900	96.8	40	7.5
9800	94.65	40	7.4
10400	94.65	40	6.58
0	0	10	0
0	0	10	0.07
0	0	10	0
200	0	35	0.1
300	0	34	0.2
300	0	34	0.2
700	0	34	0.4
300	0	34	0.1
200	0	33	0.1
0	0	33	0
0	0	32	0
0	0	32	0
0	0	32	0
0	0	31	0
0	0	31	0
0	0	31	0
0	0	30	0
0	0	30	0
0	0	30	0
0	0	30	0
0	0	30	0
0	0	32	0
0	0	33	0
0	0	33	0
0	0	34	0
0	0	34	0
100	0	33	0
0	0	33	0
200	0	33	0.1

400	0	33	0.2
4700	25.81	27	2.4
4500	40.87	30	2.6
4900	47.33	32	2.9
4300	60.23	33	2.7
3800	75.29	36	2.56
3600	79.59	37	2.5
3700	88.2	37	2.6
3900	96.8	38	2.8
4100	96.8	38	3
4700	101.11	36	3.2
4900	98.96	36	3.3
5000	98.96	36	3.34
5300	98.96	37	3.7
5200	98.96	37	3.7
5400	98.96	37	3.8
5400	101.11	38	3.9
5000	98.96	39	3.7
4800	96.8	40	3.7
4900	90.35	39	3.54
4200	90.35	40	3.2
4200	86.05	39	3.1
4300	83.9	38	3.1
4000	81.75	38	2.9
4400	94.65	40	3.3
5100	96.8	39	3.7
5000	98.96	40	3.74
5300	96.8	39	3.9
5200	98.96	39	3.8
5300	101.11	38	3.8
5400	98.96	38	3.9
5300	98.96	38	3.8
5100	98.96	38	3.7
5200	98.96	38	3.64
5300	101.11	37	3.7
5100	101.11	38	3.7
5100	101.11	38	3.7
5000	98.96	38	3.6
5000	98.96	38	3.6
5200	98.96	37	3.6
5100	98.96	38	3.54
4700	98.96	38	3.4
4600	98.96	39	3.4
4400	98.96	39	3.3

4300	98.96	40	3.3
4100	98.96	40	3.1
4000	96.8	40	3
3700	98.96	40	2.75
3900	98.96	40	3
4300	98.96	39	3.2
4200	96.8	39	3.1
4400	98.96	39	3.2
4600	96.8	38	3.3
4700	98.96	38	3.4
4700	98.96	37	3.25
4900	98.96	37	3.4
4900	98.96	37	3.4
5000	98.96	37	3.5
5100	98.96	36	3.4
5100	101.11	36	3.5
5100	98.96	36	3.5
5100	103.26	36	3.44
5100	101.11	36	3.5
5200	98.96	36	3.5
4900	98.96	37	3.4
4400	101.11	38	3.1
4300	101.11	39	3.1
4000	98.96	40	3
3900	98.96	40	2.95
3900	98.96	40	2.9
3800	98.96	40	2.8
3600	96.8	40	2.8
4100	98.96	40	3.1
2000	98.96	40	1.5
4100	98.96	40	3.1
4300	98.96	39	3.15
4500	101.11	39	3.3
4600	98.96	38	3.3
4600	98.96	38	3.3
4600	98.96	37	3.2
4600	98.96	37	3.2
4600	98.96	37	3.2
4700	101.11	36	3.15
4800	98.96	36	3.2
4800	101.11	36	3.3
4800	98.96	36	3.3
4900	98.96	36	3.3
4700	101.11	36	3.2

4400	98.96	37	3.1
4200	98.96	38	2.95
4000	98.96	39	2.9
3700	98.96	40	2.8
3700	98.96	40	2.8
3800	98.96	41	2.9
3500	98.96	41	2.7
3500	98.96	41	2.7
3600	98.96	41	2.75
3400	96.8	40	2.6
3800	98.96	40	2.9
3800	98.96	40	2.9
4200	98.96	39	3.1
4400	98.96	38	3.2
4300	98.96	38	3.1
4300	101.11	37	2.95
4300	98.96	37	3
4300	101.11	37	3
4300	101.11	37	3
4300	98.96	37	3
4400	101.11	37	3.1
4400	101.11	36	3
4400	98.96	36	2.95
4500	101.11	36	3
4200	98.96	38	3
3800	101.11	38	2.8
3700	98.96	39	2.7
3400	98.96	40	2.6
3400	98.96	41	2.7
3200	98.96	41	2.4
3400	96.8	41	2.66
3300	101.11	41	2.6
2100	98.96	41	1.6
3200	96.8	41	2.5
3300	96.8	40	2.5
2300	98.96	40	1.7
3900	101.11	39	2.85
4200	98.96	38	3
4100	98.96	38	2.9
4000	98.96	37	2.8
4100	98.96	37	2.9

21800	191.46	14	0
21800	191.46	14	0
21600	189.31	14	0
21400	189.31	14	0
21200	191.46	14	0
21400	191.46	14	0
21500	191.46	14	0
21800	189.31	14	0
21700	189.31	14	0
21500	189.31	14	0
21800	191.46	14	0
21900	193.61	14	0
22000	193.61	14	0
21700	191.46	14	0
21600	191.46	14	0
21700	191.46	14	0
21700	189.31	14	0
21700	191.46	14	0
21500	189.31	14	0
0	189.31	14	0
0	191.46	14	0
0	189.31	13	0
0	189.31	13	0
0	189.31	12	0
0	191.46	11	0
0	189.31	11	0
0	187.15	10	0
0	185	10	0
0	172.1	9	0
0	146.28	7	0

0	96.8	54	0
0	96.8	54	0
0	96.8	54	0
0	96.8	54	0
0	98.96	54	0
0	96.8	54	0
0	98.96	54	0
0	98.96	54	0
0	98.96	52	0

0	96.8	54	0
0	96.8	55	0
0	96.8	54	0
0	96.8	54	0
0	98.96	54	0
0	94.65	54	0
0	88.2	58	0
0	88.2	59	0
0	88.2	59	0
0	86.05	59	0
0	88.2	59	0
0	88.2	59	0
0	86.05	59	0
0	88.2	59	0
0	86.05	59	0
0	88.2	59	0
0	88.2	59	0
0	88.2	59	0
0	88.2	59	0
0	88.2	59	0
0	90.35	59	0

Cumulative Lbs Removed	Cumulative Gallons Removed	Mass Transfer Equation (indirectly based on Btu/hr estimate) Removed Lbs/Period	Cumulative Lbs Removed
0	0	0	0
26.06	4.2	25.73	25.73
53.16	8.57	26.73	52.46
80.46	12.97	26.92	79.38
81.83	13.19	1.35	80.73
81.83	13.19	0	80.73
81.83	13.19	0	80.73
90.23	14.54	8.32	89.05
98.93	15.94	8.57	97.62
107.43	17.31	8.41	106.03
115.63	18.63	8.1	114.13

123.1	19.84	7.35	121.48
126.9	20.45	3.78	125.26
126.9	20.45	0	125.26
144.2	23.24	17.18	142.44
162.2	26.14	17.77	160.21
180.3	29.06	17.96	178.17
204.6	32.98	24	202.17
205.22	33.08	0.61	202.78
205.22	33.08	0	202.78
216.52	34.9	11.27	214.05
219.65	35.41	3.1	217.15
219.65	35.41	0	217.15
240.55	38.78	20.63	237.78
256.42	41.34	15.72	253.5
256.42	41.34	0	253.5
263.32	42.45	6.79	260.29
270.22	43.56	6.84	267.13
276.92	44.64	6.65	273.78
283.12	45.64	6.11	279.89
288.73	46.54	5.53	285.42
294.13	47.41	5.37	290.79
299.43	48.26	5.26	296.05
304.93	49.15	5.43	301.48
310.63	50.07	5.59	307.07
316.23	50.97	5.49	312.56
321.73	51.86	5.37	317.93
327.24	52.75	5.39	323.32
332.64	53.62	5.37	328.69
337.94	54.47	5.25	333.94
338.12	54.5	0.18	334.12
338.12	54.5	0	334.12
338.12	54.5	0	334.12
352.62	56.84	14.37	348.49
367.12	59.18	14.37	362.86
381.18	61.45	13.84	376.7
395.48	63.76	14.13	390.83
409.58	66.03	14.01	404.84
423.68	68.3	14.02	418.86
437.58	70.54	13.72	432.58
451.68	72.81	13.88	446.46
465.98	75.12	14.08	460.54
480.24	77.42	14.03	474.57
494.74	79.76	14.38	488.95
509.44	82.13	14.57	503.52

524.34	84.53	14.64	518.16
539.04	86.9	14.51	532.67
553.74	89.27	14.48	547.15
568.24	91.61	14.32	561.47
579.6	93.44	11.22	572.69
579.6	93.44	0	572.69
583.5	94.07	3.8	576.49
587.04	94.64	3.58	580.07
590.94	95.27	3.81	583.88
594.84	95.9	3.86	587.74
598.74	96.53	3.86	591.6
602.74	97.18	3.98	595.58
606.74	97.83	3.91	599.49
610.94	98.51	4.17	603.66
615.27	99.21	4.23	607.89
618.19	99.68	2.88	610.77
618.19	99.68	0	610.77
622.69	100.41	4.47	615.24
627.39	101.17	4.63	619.87
631.99	101.91	4.5	624.37
636.69	102.67	4.63	629
641.39	103.43	4.63	633.63
646.01	104.18	4.55	638.18
650.71	104.94	4.63	642.81
655.81	105.76	4.96	647.77
660.81	106.57	4.89	652.66
666.01	107.41	5.09	657.75
670.25	108.09	4.19	661.94
670.25	108.09	0	661.94
674.65	108.8	4.37	666.31
679.45	109.57	4.77	671.08
684.55	110.39	5	676.08
689.45	111.18	4.86	680.94
694.35	111.97	4.89	685.83
699.27	112.76	4.82	690.65
704.17	113.55	4.82	695.47
709.07	114.34	4.83	700.3
713.77	115.1	4.63	704.93
718.47	115.86	4.64	709.57
722.97	116.59	4.44	714.01
727.37	117.3	4.35	718.36
731.7	118	4.29	722.65
736	118.69	4.25	726.9
740.3	119.38	4.26	731.16

744.6	120.07	4.17	735.33
748.9	120.76	4.17	739.5
753.1	121.44	4.18	743.68
757.3	122.12	4.09	747.77
761.43	122.79	4.02	751.79
765.63	123.47	4.1	755.89
769.93	124.16	4.28	760.17
774.53	124.9	4.46	764.63
779.13	125.64	4.44	769.07
783.63	126.37	4.43	773.5
788.13	127.1	4.44	777.94
792.65	127.83	4.47	782.41
797.25	128.57	4.54	786.95
801.85	129.31	4.54	791.49
806.45	130.05	4.55	796.04
811.05	130.79	4.46	800.5
815.65	131.53	4.46	804.96
820.05	132.24	4.36	809.32
824.28	132.92	4.19	813.51
828.48	133.6	4.18	817.69
832.58	134.26	4.09	821.78
836.58	134.91	3.91	825.69
840.68	135.57	4.02	829.71
843.28	135.99	2.59	832.3
847.28	136.64	3.94	836.24
851.02	137.24	3.71	839.95
853.62	137.66	2.57	842.52
857.22	138.24	3.51	846.03
860.72	138.8	3.43	849.46
864.12	139.35	3.34	852.8
864.62	139.43	0.53	853.33
868.92	140.12	4.19	857.52
873.15	140.8	4.1	861.62
877.55	141.51	4.35	865.97
882.05	142.24	4.46	870.43
886.65	142.98	4.54	874.97
891.25	143.72	4.54	879.51
895.75	144.45	4.44	883.95
900.25	145.18	4.44	888.39
904.68	145.89	4.38	892.77
909.08	146.6	4.37	897.14
913.48	147.31	4.28	901.42
917.68	147.99	4.18	905.6
921.68	148.64	3.99	909.59

925.58	149.27	3.9	913.49
929.48	149.9	3.9	917.39
933.32	150.52	3.76	921.15
937.22	151.15	3.82	924.97
941.12	151.78	3.82	928.79
945.02	152.41	3.84	932.63
948.82	153.02	3.74	936.37
952.62	153.63	3.76	940.13
956.42	154.24	3.76	943.89
960.16	154.84	3.7	947.59
964.06	155.47	3.85	951.44
968.06	156.12	3.97	955.41
972.16	156.78	3.97	959.38
976.36	157.46	4.07	963.45
980.26	158.09	3.89	967.34
984.06	158.7	3.76	971.1
986.46	159.09	2.35	973.45
990.39	159.72	3.91	977.36
994.59	160.4	4.18	981.54
998.39	161.01	3.74	985.28
1002.79	161.72	4.37	989.65
1007.69	162.51	4.83	994.48
1012.79	163.33	5.03	999.51
1017.47	164.09	4.62	1004.13
1017.47	164.09	0	1004.13
1018.03	164.18	0	1004.13
1018.03	164.18	0	1004.13
1020.39	164.56	2.36	1006.49
1022.89	164.96	2.48	1008.97
1025.49	165.38	2.55	1011.52
1028.29	165.83	2.83	1014.35
1031.29	166.31	2.97	1017.32
1034.17	166.77	2.8	1020.12
1034.17	166.77	0	1020.12
1037.37	167.29	3.13	1023.25
1040.87	167.85	3.45	1026.7
1044.51	168.44	3.55	1030.25
1048.21	169.04	3.68	1033.93
1051.61	169.59	3.4	1037.33
1052.66	169.76	1.02	1038.35
1052.66	169.76	0	1038.35
1055.46	170.21	2.76	1041.11
1058.61	170.72	3.07	1044.18
1062.11	171.28	3.42	1047.6

1065.71	171.86	3.56	1051.16
1069.71	172.51	3.89	1055.05
1073.71	173.16	4	1059.05
1078.01	173.85	4.27	1063.32
1082.31	174.54	4.23	1067.55
1086.54	175.22	4.22	1071.77
1091.04	175.95	4.43	1076.2
1095.34	176.64	4.29	1080.49
1099.64	177.33	4.34	1084.83
1101	177.55	1.34	1086.17
1101	177.55	0	1086.17
1108.7	178.79	7.63	1093.8
1116.2	180	7.38	1101.18
1123.6	181.19	7.3	1108.48
1130.18	182.25	6.46	1114.94
1130.18	182.25	0	1114.94
1130.25	182.26	0	1114.94
1130.25	182.26	0	1114.94
1130.35	182.28	0.13	1115.07
1130.55	182.31	0.19	1115.26
1130.75	182.34	0.19	1115.45
1131.15	182.4	0.44	1115.89
1131.25	182.42	0.19	1116.08
1131.35	182.44	0.12	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0	1116.2
1131.35	182.44	0.06	1116.26
1131.35	182.44	0	1116.26
1131.45	182.46	0.12	1116.38

1131.65	182.49	0.25	1116.63
1134.05	182.88	2.36	1118.99
1136.65	183.3	2.52	1121.51
1139.55	183.77	2.92	1124.43
1142.25	184.21	2.64	1127.07
1144.81	184.62	2.51	1129.58
1147.31	185.02	2.48	1132.06
1149.91	185.44	2.55	1134.61
1152.71	185.89	2.76	1137.37
1155.71	186.37	2.9	1140.27
1158.91	186.89	3.15	1143.42
1162.21	187.42	3.29	1146.71
1165.55	187.96	3.3	1150.01
1169.25	188.56	3.65	1153.66
1172.95	189.16	3.59	1157.25
1176.75	189.77	3.72	1160.97
1180.65	190.4	3.82	1164.79
1184.35	191	3.63	1168.42
1188.05	191.6	3.58	1172
1191.59	192.17	3.5	1175.5
1194.79	192.69	3.13	1178.63
1197.89	193.19	3.05	1181.68
1200.99	193.69	3.04	1184.72
1203.89	194.16	2.83	1187.55
1207.19	194.69	3.28	1190.83
1210.89	195.29	3.71	1194.54
1214.63	195.89	3.66	1198.2
1218.53	196.52	3.85	1202.05
1222.33	197.13	3.78	1205.83
1226.13	197.74	3.75	1209.58
1230.03	198.37	3.82	1213.4
1233.83	198.98	3.75	1217.15
1237.53	199.58	3.61	1220.76
1241.17	200.17	3.62	1224.38
1244.87	200.77	3.65	1228.03
1248.57	201.37	3.61	1231.64
1252.27	201.97	3.61	1235.25
1255.87	202.55	3.54	1238.79
1259.47	203.13	3.54	1242.33
1263.07	203.71	3.59	1245.92
1266.61	204.28	3.55	1249.47
1270.01	204.83	3.33	1252.8
1273.41	205.38	3.34	1256.14
1276.71	205.91	3.2	1259.34

1280.01	206.44	3.21	1262.55
1283.11	206.94	3.06	1265.61
1286.11	207.42	2.98	1268.59
1288.86	207.86	2.71	1271.3
1291.86	208.34	2.91	1274.21
1295.06	208.86	3.13	1277.34
1298.16	209.36	3.05	1280.39
1301.36	209.88	3.2	1283.59
1304.66	210.41	3.26	1286.85
1308.06	210.96	3.33	1290.18
1311.3	211.48	3.19	1293.37
1314.7	212.03	3.38	1296.75
1318.1	212.58	3.38	1300.13
1321.6	213.14	3.45	1303.58
1325	213.69	3.42	1307
1328.5	214.25	3.42	1310.42
1332	214.81	3.42	1313.84
1335.44	215.37	3.36	1317.2
1338.94	215.93	3.42	1320.62
1342.44	216.49	3.49	1324.11
1345.84	217.04	3.38	1327.49
1348.94	217.54	3.12	1330.61
1352.04	218.04	3.13	1333.74
1355.04	218.52	2.98	1336.72
1357.99	219	2.86	1339.58
1360.89	219.47	2.91	1342.49
1363.69	219.92	2.83	1345.32
1366.49	220.37	2.68	1348
1369.59	220.87	3.06	1351.06
1371.09	221.11	1.49	1352.55
1374.19	221.61	3.06	1355.61
1377.34	222.12	3.07	1358.68
1380.64	222.65	3.27	1361.95
1383.94	223.18	3.26	1365.21
1387.24	223.71	3.26	1368.47
1390.44	224.23	3.17	1371.64
1393.64	224.75	3.17	1374.81
1396.84	225.27	3.17	1377.98
1399.99	225.78	3.1	1381.08
1403.19	226.3	3.22	1384.3
1406.49	226.83	3.22	1387.52
1409.79	227.36	3.22	1390.74
1413.09	227.89	3.29	1394.03
1416.29	228.41	3.15	1397.18

1419.39	228.91	3.03	1400.21
1422.34	229.39	2.92	1403.13
1425.24	229.86	2.91	1406.04
1428.04	230.31	2.76	1408.8
1430.84	230.76	2.76	1411.56
1433.74	231.23	2.9	1414.46
1436.44	231.67	2.67	1417.13
1439.14	232.11	2.67	1419.8
1441.89	232.55	2.7	1422.5
1444.49	232.97	2.53	1425.03
1447.39	233.44	2.83	1427.86
1450.29	233.91	2.83	1430.69
1453.39	234.41	3.05	1433.74
1456.59	234.93	3.12	1436.86
1459.69	235.43	3.04	1439.9
1462.64	235.91	2.92	1442.82
1465.64	236.39	2.96	1445.78
1468.64	236.87	2.96	1448.74
1471.64	237.35	2.96	1451.7
1474.64	237.83	2.96	1454.66
1477.74	238.33	3.03	1457.69
1480.74	238.81	2.95	1460.64
1483.69	239.29	2.9	1463.54
1486.69	239.77	3.02	1466.56
1489.69	240.25	2.97	1469.53
1492.49	240.7	2.69	1472.22
1495.19	241.14	2.69	1474.91
1497.79	241.56	2.53	1477.44
1500.49	242	2.6	1480.04
1502.89	242.39	2.44	1482.48
1505.54	242.82	2.55	1485.03
1508.14	243.24	2.52	1487.55
1509.74	243.5	1.6	1489.15
1512.24	243.9	2.44	1491.59
1514.74	244.3	2.46	1494.05
1516.44	244.57	1.71	1495.76
1519.29	245.03	2.79	1498.55
1522.29	245.51	2.97	1501.52
1525.19	245.98	2.9	1504.42
1527.99	246.43	2.76	1507.18
1530.89	246.9	2.83	1510.01

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Cumulative Gallons Removed	Cubic Feet Processed Cumulative	Cumulative Time (hours)	Delta Time (Hours)
0	0	0	0
4.15	1180	0.98	0.98
8.46	2440	1.98	1
12.8	3700	2.98	1
13.02	3763	3.03	0.05
13.02	3763	6.6	3.57
13.02	3763	6.72	0.12
14.36	5083	7.72	1
15.74	6343	8.72	1
17.1	7603	9.72	1
18.41	8863	10.72	1

19.6	10102	11.7	0.98
20.21	10710	12.33	0.63
20.21	10710	15.96	3.63
22.98	11910	16.96	1
25.85	13090	17.94	0.98
28.75	14290	18.94	1
32.62	15490	19.94	1
32.72	15522	19.97	0.03
32.72	15522	20.4	0.43
34.54	17022	21.4	1
35.04	17307	21.72	0.32
35.04	17307	24.97	3.25
38.37	18927	25.97	1
40.9	20077	26.74	0.77
40.9	20077	30.3	3.56
42	21697	31.3	1
43.1	23377	32.3	1
44.17	25117	33.3	1
45.15	26857	34.3	1
46.04	28568	35.28	0.98
46.91	30368	36.28	1
47.76	32168	37.28	1
48.64	34028	38.28	1
49.54	35828	39.28	1
50.43	37688	40.28	1
51.3	39548	41.28	1
52.17	41436	42.26	0.98
53.04	43356	43.26	1
53.89	45276	44.26	1
53.92	45340	44.29	0.03
53.92	45340	47.88	3.59
53.92	45340	48.01	0.13
56.24	47140	49.01	1
58.56	49060	50.01	1
60.79	50948	50.99	0.98
63.07	52868	51.99	1
65.33	54788	52.99	1
67.59	56768	53.99	1
69.8	58688	54.99	1
72.04	60728	55.99	1
74.31	62708	56.99	1
76.57	64655	57.97	0.98
78.89	66695	58.97	1
81.24	68735	59.97	1

83.6	70775	60.97	1
85.94	72815	61.97	1
88.28	74915	62.97	1
90.59	76955	63.97	1
92.4	78553	64.75	0.78
92.4	78553	68.59	3.84
93.01	80353	69.59	1
93.59	82182	70.57	0.98
94.2	84162	71.57	1
94.82	86202	72.57	1
95.44	88242	73.57	1
96.08	90342	74.57	1
96.71	92442	75.57	1
97.38	94542	76.57	1
98.06	96607	77.55	0.98
98.52	97972	78.2	0.65
98.52	97972	82.13	3.93
99.24	99892	83.13	1
99.99	101932	84.13	1
100.72	103972	85.13	1
101.47	106012	86.13	1
102.22	108112	87.13	1
102.95	110118	88.11	0.98
103.7	112218	89.11	1
104.5	114318	90.11	1
105.29	116418	91.11	1
106.11	118518	92.11	1
106.79	120246	92.91	0.8
106.79	120246	96.93	4.02
107.49	124266	97.93	1
108.26	128106	98.93	1
109.07	131766	99.93	1
109.85	135246	100.93	1
110.64	138666	101.93	1
111.42	141970	102.91	0.98
112.2	145270	103.91	1
112.98	148510	104.91	1
113.73	151750	105.91	1
114.48	154930	106.91	1
115.2	158110	107.91	1
115.9	161290	108.91	1
116.59	164358	109.89	0.98
117.27	167538	110.89	1
117.96	170658	111.89	1

118.63	173778	112.89	1
119.3	176898	113.89	1
119.97	179958	114.89	1
120.63	183018	115.89	1
121.28	186027	116.87	0.98
121.94	189027	117.87	1
122.63	192087	118.87	1
123.35	195207	119.87	1
124.07	198387	120.87	1
124.78	201627	121.87	1
125.5	204807	122.87	1
126.22	207934	123.85	0.98
126.95	211114	124.85	1
127.68	214294	125.85	1
128.41	217414	126.85	1
129.13	220534	127.85	1
129.85	223654	128.85	1
130.55	226774	129.85	1
131.23	229842	130.83	0.98
131.9	232902	131.83	1
132.56	235962	132.83	1
133.19	238962	133.83	1
133.84	241902	134.83	1
134.26	244782	135.83	1
134.9	247602	136.83	1
135.5	250316	137.81	0.98
135.91	253076	138.81	1
136.48	255836	139.81	1
137.03	258596	140.81	1
137.57	261356	141.81	1
137.65	264176	142.81	1
138.33	267176	143.81	1
138.99	270244	144.79	0.98
139.69	273424	145.79	1
140.41	276544	146.79	1
141.14	279724	147.79	1
141.87	282904	148.79	1
142.59	286084	149.79	1
143.31	289264	150.79	1
144.02	292332	151.77	0.98
144.73	295392	152.77	1
145.42	298452	153.77	1
146.09	301512	154.77	1
146.73	304572	155.77	1

147.36	307632	156.77	1
147.99	310692	157.77	1
148.6	313642	158.75	0.98
149.22	316642	159.75	1
149.84	319642	160.75	1
150.46	322582	161.75	1
151.06	325522	162.75	1
151.67	328402	163.75	1
152.28	331282	164.75	1
152.88	334055	165.73	0.98
153.5	336875	166.73	1
154.14	339995	167.73	1
154.78	343115	168.73	1
155.44	345335	169.73	1
156.07	347495	170.73	1
156.68	349655	171.73	1
157.06	351755	172.73	1
157.69	353820	173.71	0.98
158.36	355860	174.71	1
158.96	357900	175.71	1
159.66	360000	176.71	1
160.44	362160	177.71	1
161.25	364320	178.71	1
162	366228	179.59	0.88
162	366228	183.54	3.95
162	367012	184.47	0.93
162	367012	184.55	0.08
162.38	368959	185.53	0.98
162.78	371119	186.53	1
163.19	373279	187.53	1
163.65	375559	188.53	1
164.13	377839	189.53	1
164.58	379891	190.43	0.9
164.58	379891	194.33	3.9
165.08	381991	195.33	1
165.64	384211	196.33	1
166.21	386453	197.31	0.98
166.8	388733	198.31	1
167.35	391013	199.31	1
167.51	391697	199.61	0.3
167.51	391697	201.41	1.8
167.95	393917	202.41	1
168.45	396218	203.39	0.98
169	398558	204.39	1

169.57	400898	205.39	1
170.2	403178	206.39	1
170.85	405398	207.39	1
171.54	407618	208.39	1
172.22	409778	209.39	1
172.9	411902	210.37	0.98
173.61	414062	211.37	1
174.3	416222	212.37	1
175	418442	213.37	1
175.22	419126	213.69	0.32
175.22	419126	217.46	3.77
176.45	421466	218.46	1
177.64	423866	219.46	1
178.82	426266	220.46	1
179.86	428266	221.29	0.83
179.86	428266	225.32	4.03
179.86	428286	225.35	0.03
179.86	428286	229.07	3.72
179.88	430386	230.07	1
179.91	432426	231.07	1
179.94	434432	232.05	0.98
180.01	436472	233.05	1
180.04	438512	234.05	1
180.06	440492	235.05	1
180.06	442472	236.05	1
180.06	444392	237.05	1
180.06	446312	238.05	1
180.06	448200	239.03	0.98
180.06	450060	240.03	1
180.06	451920	241.03	1
180.06	453780	242.03	1
180.06	455580	243.03	1
180.06	457380	244.03	1
180.06	459180	245.03	1
180.06	460950	246.01	0.98
180.06	462750	247.01	1
180.06	464670	248.01	1
180.06	466650	249.01	1
180.06	468630	250.01	1
180.06	470670	251.01	1
180.06	472710	252.01	1
180.07	474657	252.99	0.98
180.07	476637	253.99	1
180.09	478617	254.99	1

180.13	480597	255.99	1
180.51	482217	256.99	1
180.92	484017	257.99	1
181.39	485937	258.99	1
181.82	487917	259.99	1
182.22	490041	260.97	0.98
182.62	492261	261.97	1
183.03	494481	262.97	1
183.48	496761	263.97	1
183.95	499041	264.97	1
184.46	501201	265.97	1
184.99	503361	266.97	1
185.52	505485	267.95	0.98
186.11	507705	268.95	1
186.69	509925	269.95	1
187.29	512145	270.95	1
187.91	514425	271.95	1
188.5	516765	272.95	1
189.08	519165	273.95	1
189.64	521466	274.93	0.98
190.14	523866	275.93	1
190.63	526206	276.93	1
191.12	528486	277.93	1
191.58	530766	278.93	1
192.11	533166	279.93	1
192.71	535506	280.93	1
193.3	537866	281.91	0.98
193.92	540206	282.91	1
194.53	542546	283.91	1
195.14	544826	284.91	1
195.76	547106	285.91	1
196.37	549386	286.91	1
196.95	551666	287.91	1
197.53	553908	288.89	0.98
198.12	556128	289.89	1
198.7	558408	290.89	1
199.28	560688	291.89	1
199.85	562968	292.89	1
200.42	565248	293.89	1
201	567468	294.89	1
201.57	569710	295.87	0.98
202.11	571990	296.87	1
202.65	574330	297.87	1
203.17	576670	298.87	1

203.69	579070	299.87	1
204.18	581470	300.87	1
204.66	583870	301.87	1
205.1	586230	302.85	0.98
205.57	588630	303.85	1
206.07	590970	304.85	1
206.56	593310	305.85	1
207.08	595650	306.85	1
207.61	597930	307.85	1
208.15	600210	308.85	1
208.66	602393	309.83	0.98
209.2	604613	310.83	1
209.74	606833	311.83	1
210.3	609053	312.83	1
210.85	611213	313.83	1
211.4	613373	314.83	1
211.95	615533	315.83	1
212.49	617657	316.81	0.98
213.04	619817	317.81	1
213.6	621977	318.81	1
214.14	624197	319.81	1
214.64	626477	320.81	1
215.14	628817	321.81	1
215.62	631217	322.81	1
216.08	633577	323.79	0.98
216.55	635977	324.79	1
217.01	638377	325.79	1
217.44	640777	326.79	1
217.93	643177	327.79	1
218.17	645577	328.79	1
218.66	647977	329.79	1
219.16	650278	330.77	0.98
219.69	652618	331.77	1
220.22	654898	332.77	1
220.75	657178	333.77	1
221.26	659398	334.77	1
221.77	661618	335.77	1
222.28	663838	336.77	1
222.78	665962	337.75	0.98
223.3	668122	338.75	1
223.82	670282	339.75	1
224.34	672442	340.75	1
224.87	674602	341.75	1
225.38	676762	342.75	1

225.87	678982	343.75	1
226.34	681224	344.73	0.98
226.81	683564	345.73	1
227.25	685964	346.73	1
227.69	688364	347.73	1
228.16	690824	348.73	1
228.59	693284	349.73	1
229.02	695744	350.73	1
229.46	698163	351.71	0.98
229.87	700563	352.71	1
230.33	702963	353.71	1
230.79	705363	354.71	1
231.28	707703	355.71	1
231.78	709983	356.71	1
232.27	712263	357.71	1
232.74	714446	358.69	0.98
233.22	716666	359.69	1
233.7	718886	360.69	1
234.18	721106	361.69	1
234.66	723326	362.69	1
235.15	725546	363.69	1
235.63	727706	364.69	1
236.1	729830	365.67	0.98
236.59	731990	366.67	1
237.07	734270	367.67	1
237.5	736550	368.67	1
237.93	738890	369.67	1
238.34	741290	370.67	1
238.76	743750	371.67	1
239.15	746210	372.67	1
239.56	748629	373.65	0.98
239.97	751089	374.65	1
240.23	753549	375.65	1
240.62	756009	376.65	1
241.02	758409	377.65	1
241.3	760809	378.65	1
241.75	763110	379.63	0.98
242.23	765390	380.63	1
242.7	767670	381.63	1
243.14	769890	382.63	1
243.6	772110	383.63	1

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

June 09, 2014

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: FORMER THRIFTWAY REFINERY TW #810 OrderNo.: 1406001

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 16 sample(s) on 5/31/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1406001**
Date Reported: **6/9/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-8
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/29/2014 11:50:00 AM
Lab ID: 1406001-001
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	140	5.0		mg/L	10	6/2/2014 11:19:58 AM	R19002
Sulfate	2200	50		mg/L	100	6/2/2014 11:57:12 AM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 3:01:08 AM	R18993
Toluene	ND	1.0		µg/L	1	6/3/2014 3:01:08 AM	R18993
Ethylbenzene	23	1.0		µg/L	1	6/3/2014 3:01:08 AM	R18993
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/3/2014 3:01:08 AM	R18993
Naphthalene	ND	2.0		µg/L	1	6/3/2014 3:01:08 AM	R18993
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 3:01:08 AM	R18993
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 3:01:08 AM	R18993
Xylenes, Total	4.2	2.0		µg/L	1	6/3/2014 3:01:08 AM	R18993
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%REC	1	6/3/2014 3:01:08 AM	R18993
Surr: 4-Bromofluorobenzene	89.6	70-130		%REC	1	6/3/2014 3:01:08 AM	R18993
Surr: Dibromofluoromethane	102	70-130		%REC	1	6/3/2014 3:01:08 AM	R18993
Surr: Toluene-d8	103	70-130		%REC	1	6/3/2014 3:01:08 AM	R18993
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3660	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-15
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/29/2014 12:16:00 PM
Lab ID: 1406001-002
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	170	5.0		mg/L	10	6/2/2014 12:09:36 PM	R19002
Sulfate	3000	50		mg/L	100	6/2/2014 12:22:01 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	7.6	1.0		µg/L	1	6/3/2014 3:30:00 AM	R18993
Toluene	1.3	1.0		µg/L	1	6/3/2014 3:30:00 AM	R18993
Ethylbenzene	5.5	1.0		µg/L	1	6/3/2014 3:30:00 AM	R18993
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/3/2014 3:30:00 AM	R18993
Naphthalene	ND	2.0		µg/L	1	6/3/2014 3:30:00 AM	R18993
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 3:30:00 AM	R18993
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 3:30:00 AM	R18993
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 3:30:00 AM	R18993
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%REC	1	6/3/2014 3:30:00 AM	R18993
Surr: 4-Bromofluorobenzene	78.3	70-130		%REC	1	6/3/2014 3:30:00 AM	R18993
Surr: Dibromofluoromethane	95.6	70-130		%REC	1	6/3/2014 3:30:00 AM	R18993
Surr: Toluene-d8	104	70-130		%REC	1	6/3/2014 3:30:00 AM	R18993
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4420	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-37
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/29/2014 2:24:00 PM
Lab ID: 1406001-003
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	180	5.0		mg/L	10	6/2/2014 12:34:25 PM	R19002
Sulfate	1000	50		mg/L	100	6/2/2014 12:46:49 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	210	5.0		µg/L	5	6/3/2014 3:58:50 AM	R18993
Toluene	ND	1.0		µg/L	1	6/4/2014 11:35:20 AM	R19047
Ethylbenzene	110	5.0		µg/L	5	6/3/2014 3:58:50 AM	R18993
Methyl tert-butyl ether (MTBE)	63	1.0		µg/L	1	6/4/2014 11:35:20 AM	R19047
Naphthalene	3.3	2.0		µg/L	1	6/4/2014 11:35:20 AM	R19047
1-Methylnaphthalene	6.1	4.0		µg/L	1	6/4/2014 11:35:20 AM	R19047
2-Methylnaphthalene	ND	4.0		µg/L	1	6/4/2014 11:35:20 AM	R19047
Xylenes, Total	70	2.0		µg/L	1	6/4/2014 11:35:20 AM	R19047
Surr: 1,2-Dichloroethane-d4	87.6	70-130		%REC	1	6/4/2014 11:35:20 AM	R19047
Surr: 4-Bromofluorobenzene	83.7	70-130		%REC	1	6/4/2014 11:35:20 AM	R19047
Surr: Dibromofluoromethane	96.3	70-130		%REC	1	6/4/2014 11:35:20 AM	R19047
Surr: Toluene-d8	100	70-130		%REC	1	6/4/2014 11:35:20 AM	R19047
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	2910	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-41
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/29/2014 3:20:00 PM
Lab ID: 1406001-004
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	720	50		mg/L	100	6/2/2014 1:36:27 PM	R19002
Sulfate	2000	50		mg/L	100	6/2/2014 1:36:27 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	35	5.0		µg/L	5	6/3/2014 1:55:16 PM	R19023
Toluene	ND	5.0		µg/L	5	6/3/2014 1:55:16 PM	R19023
Ethylbenzene	190	5.0		µg/L	5	6/3/2014 1:55:16 PM	R19023
Methyl tert-butyl ether (MTBE)	9.5	5.0		µg/L	5	6/3/2014 1:55:16 PM	R19023
Naphthalene	ND	10		µg/L	5	6/3/2014 1:55:16 PM	R19023
1-Methylnaphthalene	ND	20		µg/L	5	6/3/2014 1:55:16 PM	R19023
2-Methylnaphthalene	ND	20		µg/L	5	6/3/2014 1:55:16 PM	R19023
Xylenes, Total	470	10		µg/L	5	6/3/2014 1:55:16 PM	R19023
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%REC	5	6/3/2014 1:55:16 PM	R19023
Surr: 4-Bromofluorobenzene	91.3	70-130		%REC	5	6/3/2014 1:55:16 PM	R19023
Surr: Dibromofluoromethane	101	70-130		%REC	5	6/3/2014 1:55:16 PM	R19023
Surr: Toluene-d8	96.5	70-130		%REC	5	6/3/2014 1:55:16 PM	R19023
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4920	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-42
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/29/2014 3:42:00 PM
Lab ID: 1406001-005
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	53	5.0		mg/L	10	6/2/2014 1:48:52 PM	R19002
Sulfate	2300	50		mg/L	100	6/2/2014 2:01:16 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 5:53:53 AM	R18993
Toluene	ND	1.0		µg/L	1	6/3/2014 5:53:53 AM	R18993
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 5:53:53 AM	R18993
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/3/2014 5:53:53 AM	R18993
Naphthalene	ND	2.0		µg/L	1	6/3/2014 5:53:53 AM	R18993
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 5:53:53 AM	R18993
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 5:53:53 AM	R18993
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 5:53:53 AM	R18993
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%REC	1	6/3/2014 5:53:53 AM	R18993
Surr: 4-Bromofluorobenzene	99.3	70-130		%REC	1	6/3/2014 5:53:53 AM	R18993
Surr: Dibromofluoromethane	97.0	70-130		%REC	1	6/3/2014 5:53:53 AM	R18993
Surr: Toluene-d8	102	70-130		%REC	1	6/3/2014 5:53:53 AM	R18993
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3620	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-43
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/30/2014 10:00:00 AM
Lab ID: 1406001-006
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	95	5.0		mg/L	10	6/2/2014 2:13:40 PM	R19002
Sulfate	2500	50		mg/L	100	6/2/2014 2:26:05 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 6:22:34 AM	R18993
Toluene	ND	1.0		µg/L	1	6/3/2014 6:22:34 AM	R18993
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 6:22:34 AM	R18993
Methyl tert-butyl ether (MTBE)	310	10		µg/L	10	6/3/2014 2:24:07 PM	R19023
Naphthalene	ND	2.0		µg/L	1	6/3/2014 6:22:34 AM	R18993
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 6:22:34 AM	R18993
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 6:22:34 AM	R18993
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 6:22:34 AM	R18993
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%REC	1	6/3/2014 6:22:34 AM	R18993
Surr: 4-Bromofluorobenzene	99.5	70-130		%REC	1	6/3/2014 6:22:34 AM	R18993
Surr: Dibromofluoromethane	103	70-130		%REC	1	6/3/2014 6:22:34 AM	R18993
Surr: Toluene-d8	101	70-130		%REC	1	6/3/2014 6:22:34 AM	R18993
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4230	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-45
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/30/2014 10:29:00 AM
Lab ID: 1406001-007
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	190	50		mg/L	100	6/2/2014 2:50:55 PM	R19002
Sulfate	2600	50		mg/L	100	6/2/2014 2:50:55 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 6:51:17 AM	R18993
Toluene	ND	1.0		µg/L	1	6/3/2014 6:51:17 AM	R18993
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 6:51:17 AM	R18993
Methyl tert-butyl ether (MTBE)	170	1.0		µg/L	1	6/3/2014 6:51:17 AM	R18993
Naphthalene	ND	2.0		µg/L	1	6/3/2014 6:51:17 AM	R18993
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 6:51:17 AM	R18993
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 6:51:17 AM	R18993
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 6:51:17 AM	R18993
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%REC	1	6/3/2014 6:51:17 AM	R18993
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	6/3/2014 6:51:17 AM	R18993
Surr: Dibromofluoromethane	105	70-130		%REC	1	6/3/2014 6:51:17 AM	R18993
Surr: Toluene-d8	99.5	70-130		%REC	1	6/3/2014 6:51:17 AM	R18993
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4560	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-52
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/30/2014 10:45:00 AM
Lab ID: 1406001-008
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	270	50		mg/L	100	6/2/2014 3:15:44 PM	R19002
Sulfate	4200	100		mg/L	200	6/4/2014 11:46:02 AM	R19059
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 6:14:49 PM	R19023
Toluene	ND	1.0		µg/L	1	6/3/2014 6:14:49 PM	R19023
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 6:14:49 PM	R19023
Methyl tert-butyl ether (MTBE)	88	1.0		µg/L	1	6/3/2014 6:14:49 PM	R19023
Naphthalene	ND	2.0		µg/L	1	6/3/2014 6:14:49 PM	R19023
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 6:14:49 PM	R19023
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 6:14:49 PM	R19023
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 6:14:49 PM	R19023
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	6/3/2014 6:14:49 PM	R19023
Surr: 4-Bromofluorobenzene	98.6	70-130		%REC	1	6/3/2014 6:14:49 PM	R19023
Surr: Dibromofluoromethane	105	70-130		%REC	1	6/3/2014 6:14:49 PM	R19023
Surr: Toluene-d8	99.9	70-130		%REC	1	6/3/2014 6:14:49 PM	R19023
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	7560	200	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-54
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/30/2014 11:06:00 AM
Lab ID: 1406001-009
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	130	50		mg/L	100	6/2/2014 4:05:23 PM	R19002
Sulfate	2700	50		mg/L	100	6/2/2014 4:05:23 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 6:43:37 PM	R19023
Toluene	ND	1.0		µg/L	1	6/3/2014 6:43:37 PM	R19023
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 6:43:37 PM	R19023
Methyl tert-butyl ether (MTBE)	20	1.0		µg/L	1	6/3/2014 6:43:37 PM	R19023
Naphthalene	ND	2.0		µg/L	1	6/3/2014 6:43:37 PM	R19023
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 6:43:37 PM	R19023
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 6:43:37 PM	R19023
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 6:43:37 PM	R19023
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%REC	1	6/3/2014 6:43:37 PM	R19023
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	6/3/2014 6:43:37 PM	R19023
Surr: Dibromofluoromethane	104	70-130		%REC	1	6/3/2014 6:43:37 PM	R19023
Surr: Toluene-d8	101	70-130		%REC	1	6/3/2014 6:43:37 PM	R19023
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4470	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-7
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/30/2014 12:20:00 PM
Lab ID: 1406001-010
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	590	50		mg/L	100	6/2/2014 4:30:12 PM	R19002
Sulfate	1900	50		mg/L	100	6/2/2014 4:30:12 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	2.9	1.0		µg/L	1	6/3/2014 7:12:26 PM	R19023
Toluene	ND	1.0		µg/L	1	6/3/2014 7:12:26 PM	R19023
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 7:12:26 PM	R19023
Methyl tert-butyl ether (MTBE)	23	1.0		µg/L	1	6/3/2014 7:12:26 PM	R19023
Naphthalene	ND	2.0		µg/L	1	6/3/2014 7:12:26 PM	R19023
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 7:12:26 PM	R19023
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 7:12:26 PM	R19023
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 7:12:26 PM	R19023
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%REC	1	6/3/2014 7:12:26 PM	R19023
Surr: 4-Bromofluorobenzene	99.4	70-130		%REC	1	6/3/2014 7:12:26 PM	R19023
Surr: Dibromofluoromethane	101	70-130		%REC	1	6/3/2014 7:12:26 PM	R19023
Surr: Toluene-d8	97.6	70-130		%REC	1	6/3/2014 7:12:26 PM	R19023
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4370	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-20
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/30/2014 11:58:00 AM
Lab ID: 1406001-011
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	430	50		mg/L	100	6/2/2014 4:55:01 PM	R19002
Sulfate	2200	50		mg/L	100	6/2/2014 4:55:01 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 7:41:15 PM	R19023
Toluene	ND	1.0		µg/L	1	6/3/2014 7:41:15 PM	R19023
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 7:41:15 PM	R19023
Methyl tert-butyl ether (MTBE)	160	1.0		µg/L	1	6/3/2014 7:41:15 PM	R19023
Naphthalene	ND	2.0		µg/L	1	6/3/2014 7:41:15 PM	R19023
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 7:41:15 PM	R19023
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 7:41:15 PM	R19023
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 7:41:15 PM	R19023
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%REC	1	6/3/2014 7:41:15 PM	R19023
Surr: 4-Bromofluorobenzene	95.2	70-130		%REC	1	6/3/2014 7:41:15 PM	R19023
Surr: Dibromofluoromethane	102	70-130		%REC	1	6/3/2014 7:41:15 PM	R19023
Surr: Toluene-d8	98.2	70-130		%REC	1	6/3/2014 7:41:15 PM	R19023
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4680	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-21
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/30/2014 11:30:00 AM
Lab ID: 1406001-012
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	650	50		mg/L	100	6/2/2014 5:19:49 PM	R19002
Sulfate	1400	50		mg/L	100	6/2/2014 5:19:49 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 8:10:03 PM	R19023
Toluene	ND	1.0		µg/L	1	6/3/2014 8:10:03 PM	R19023
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 8:10:03 PM	R19023
Methyl tert-butyl ether (MTBE)	83	1.0		µg/L	1	6/3/2014 8:10:03 PM	R19023
Naphthalene	ND	2.0		µg/L	1	6/3/2014 8:10:03 PM	R19023
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 8:10:03 PM	R19023
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 8:10:03 PM	R19023
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 8:10:03 PM	R19023
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%REC	1	6/3/2014 8:10:03 PM	R19023
Surr: 4-Bromofluorobenzene	97.3	70-130		%REC	1	6/3/2014 8:10:03 PM	R19023
Surr: Dibromofluoromethane	108	70-130		%REC	1	6/3/2014 8:10:03 PM	R19023
Surr: Toluene-d8	102	70-130		%REC	1	6/3/2014 8:10:03 PM	R19023
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3960	40.0	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-22
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/29/2014 1:14:00 PM
Lab ID: 1406001-014
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	31	5.0		mg/L	10	6/2/2014 6:21:51 PM	R19002
Sulfate	2000	50		mg/L	100	6/2/2014 6:34:15 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	4.0	1.0		µg/L	1	6/4/2014 12:32:55 PM	R19047
Toluene	ND	1.0		µg/L	1	6/4/2014 12:32:55 PM	R19047
Ethylbenzene	6.5	1.0		µg/L	1	6/4/2014 12:32:55 PM	R19047
Methyl tert-butyl ether (MTBE)	3.9	1.0		µg/L	1	6/4/2014 12:32:55 PM	R19047
Naphthalene	7.4	2.0		µg/L	1	6/4/2014 12:32:55 PM	R19047
1-Methylnaphthalene	9.2	4.0		µg/L	1	6/4/2014 12:32:55 PM	R19047
2-Methylnaphthalene	9.6	4.0		µg/L	1	6/4/2014 12:32:55 PM	R19047
Xylenes, Total	130	2.0		µg/L	1	6/4/2014 12:32:55 PM	R19047
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%REC	1	6/4/2014 12:32:55 PM	R19047
Surr: 4-Bromofluorobenzene	76.6	70-130		%REC	1	6/4/2014 12:32:55 PM	R19047
Surr: Dibromofluoromethane	99.0	70-130		%REC	1	6/4/2014 12:32:55 PM	R19047
Surr: Toluene-d8	98.7	70-130		%REC	1	6/4/2014 12:32:55 PM	R19047
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3430	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-38
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/29/2014 2:42:00 PM
Lab ID: 1406001-015
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	91	5.0		mg/L	10	6/2/2014 5:32:14 PM	R19002
Sulfate	2100	50		mg/L	100	6/2/2014 5:44:38 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	8.2	1.0		µg/L	1	6/3/2014 9:07:33 PM	R19023
Toluene	ND	1.0		µg/L	1	6/3/2014 9:07:33 PM	R19023
Ethylbenzene	5.1	1.0		µg/L	1	6/3/2014 9:07:33 PM	R19023
Methyl tert-butyl ether (MTBE)	60	1.0		µg/L	1	6/3/2014 9:07:33 PM	R19023
Naphthalene	6.2	2.0		µg/L	1	6/3/2014 9:07:33 PM	R19023
1-Methylnaphthalene	6.7	4.0		µg/L	1	6/3/2014 9:07:33 PM	R19023
2-Methylnaphthalene	7.6	4.0		µg/L	1	6/3/2014 9:07:33 PM	R19023
Xylenes, Total	77	2.0		µg/L	1	6/3/2014 9:07:33 PM	R19023
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%REC	1	6/3/2014 9:07:33 PM	R19023
Surr: 4-Bromofluorobenzene	74.7	70-130		%REC	1	6/3/2014 9:07:33 PM	R19023
Surr: Dibromofluoromethane	98.0	70-130		%REC	1	6/3/2014 9:07:33 PM	R19023
Surr: Toluene-d8	101	70-130		%REC	1	6/3/2014 9:07:33 PM	R19023
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3840	100	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-39
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/29/2014 3:02:00 PM
Lab ID: 1406001-016
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	340	50		mg/L	100	6/2/2014 6:59:04 PM	R19002
Sulfate	1000	50		mg/L	100	6/2/2014 6:59:04 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 11:31:09 PM	R19023
Toluene	ND	1.0		µg/L	1	6/3/2014 11:31:09 PM	R19023
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 11:31:09 PM	R19023
Methyl tert-butyl ether (MTBE)	8.2	1.0		µg/L	1	6/3/2014 11:31:09 PM	R19023
Naphthalene	ND	2.0		µg/L	1	6/3/2014 11:31:09 PM	R19023
1-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 11:31:09 PM	R19023
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 11:31:09 PM	R19023
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 11:31:09 PM	R19023
Surr: 1,2-Dichloroethane-d4	90.2	70-130		%REC	1	6/3/2014 11:31:09 PM	R19023
Surr: 4-Bromofluorobenzene	96.3	70-130		%REC	1	6/3/2014 11:31:09 PM	R19023
Surr: Dibromofluoromethane	96.0	70-130		%REC	1	6/3/2014 11:31:09 PM	R19023
Surr: Toluene-d8	103	70-130		%REC	1	6/3/2014 11:31:09 PM	R19023
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3220	40.0	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-36
Project: FORMER THRIFTWAY REFINERY T
Collection Date: 5/29/2014 1:50:00 PM
Lab ID: 1406001-017
Matrix: AQUEOUS
Received Date: 5/31/2014 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	40	5.0		mg/L	10	6/2/2014 7:11:28 PM	R19002
Sulfate	3500	50		mg/L	100	6/2/2014 7:23:53 PM	R19002
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**cadg**
Benzene	ND	1.0		µg/L	1	6/3/2014 11:59:48 PM	R19023
Toluene	ND	1.0		µg/L	1	6/3/2014 11:59:48 PM	R19023
Ethylbenzene	ND	1.0		µg/L	1	6/3/2014 11:59:48 PM	R19023
Methyl tert-butyl ether (MTBE)	1.1	1.0		µg/L	1	6/3/2014 11:59:48 PM	R19023
Naphthalene	ND	2.0		µg/L	1	6/3/2014 11:59:48 PM	R19023
1-Methylnaphthalene	15	4.0		µg/L	1	6/3/2014 11:59:48 PM	R19023
2-Methylnaphthalene	ND	4.0		µg/L	1	6/3/2014 11:59:48 PM	R19023
Xylenes, Total	ND	2.0		µg/L	1	6/3/2014 11:59:48 PM	R19023
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	6/3/2014 11:59:48 PM	R19023
Surr: 4-Bromofluorobenzene	84.2	70-130		%REC	1	6/3/2014 11:59:48 PM	R19023
Surr: Dibromofluoromethane	104	70-130		%REC	1	6/3/2014 11:59:48 PM	R19023
Surr: Toluene-d8	98.4	70-130		%REC	1	6/3/2014 11:59:48 PM	R19023
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	5610	200	*	mg/L	1	6/4/2014 3:27:00 PM	13486

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1406001**
09-Jun-14

Client: Animas Environmental Services
Project: FORMER THRIFTWAY REFINERY TW #810

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R19002** RunNo: **19002**
Prep Date: Analysis Date: **6/2/2014** SeqNo: **549167** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R19002** RunNo: **19002**
Prep Date: Analysis Date: **6/2/2014** SeqNo: **549168** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	97.0	90	110			
Sulfate	9.9	0.50	10.00	0	98.6	90	110			

Sample ID **1406001-001BMS** SampType: **MS** TestCode: **EPA Method 300.0: Anions**
Client ID: **TW-8** Batch ID: **R19002** RunNo: **19002**
Prep Date: Analysis Date: **6/2/2014** SeqNo: **549170** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	190	5.0	50.00	139.1	106	92.6	107			

Sample ID **1406001-001BMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**
Client ID: **TW-8** Batch ID: **R19002** RunNo: **19002**
Prep Date: Analysis Date: **6/2/2014** SeqNo: **549171** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	190	5.0	50.00	139.1	105	92.6	107	0.420	20	

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R19002** RunNo: **19002**
Prep Date: Analysis Date: **6/2/2014** SeqNo: **549219** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R19002** RunNo: **19002**
Prep Date: Analysis Date: **6/2/2014** SeqNo: **549220** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.8	90	110			
Sulfate	9.6	0.50	10.00	0	96.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1406001**
09-Jun-14

Client: Animas Environmental Services
Project: FORMER THRIFTWAY REFINERY TW #810

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**			
Client ID: **PBW**	Batch ID: **R19059**	RunNo: **19059**			
Prep Date:	Analysis Date: **6/4/2014**	SeqNo: **550787**	Units: **mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**			
Client ID: **LCSW**	Batch ID: **R19059**	RunNo: **19059**			
Prep Date:	Analysis Date: **6/4/2014**	SeqNo: **550788**	Units: **mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.9	0.50	10.00	0	98.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1406001**
09-Jun-14

Client: Animas Environmental Services
Project: FORMER THRIFTWAY REFINERY TW #810

Sample ID **b2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **R18993** RunNo: **18993**
Prep Date: Analysis Date: **6/2/2014** SeqNo: **548747** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **100ng lcs2** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **R18993** RunNo: **18993**
Prep Date: Analysis Date: **6/2/2014** SeqNo: **548748** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.4	70	130			
Toluene	20	1.0	20.00	0	98.3	80	120			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	9.2		10.00		91.8	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID **5mL rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **R19023** RunNo: **19023**
Prep Date: Analysis Date: **6/3/2014** SeqNo: **549776** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1406001**
09-Jun-14

Client: Animas Environmental Services
Project: FORMER THRIFTWAY REFINERY TW #810

Sample ID **5mL rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **R19023** RunNo: **19023**
Prep Date: Analysis Date: **6/3/2014** SeqNo: **549776** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.9		10.00		99.3	70	130			

Sample ID **100ng200ngannex I** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **R19023** RunNo: **19023**
Prep Date: Analysis Date: **6/3/2014** SeqNo: **549777** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.2	70	130			
Toluene	20	1.0	20.00	0	98.8	80	120			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.1	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Sample ID **1406001-001a ms** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **TW-8** Batch ID: **R19023** RunNo: **19023**
Prep Date: Analysis Date: **6/3/2014** SeqNo: **549779** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.6	70	130			
Toluene	21	1.0	20.00	0	103	67.5	123			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		87.7	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.2	70	130			
Surr: Dibromofluoromethane	8.8		10.00		88.4	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID **1406001-001a msd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **TW-8** Batch ID: **R19023** RunNo: **19023**
Prep Date: Analysis Date: **6/3/2014** SeqNo: **549780** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.9	70	130	3.04	20	
Toluene	19	1.0	20.00	0	95.5	67.5	123	7.39	20	
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.3		10.00		93.4	70	130	0	0	
Surr: Dibromofluoromethane	8.9		10.00		88.5	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		99.4	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1406001**
09-Jun-14

Client: Animas Environmental Services
Project: FORMER THRIFTWAY REFINERY TW #810

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R19047**	RunNo: **19047**
Prep Date:	Analysis Date: **6/4/2014**	SeqNo: **550321** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **100ng lcs 200ng an**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R19047**	RunNo: **19047**
Prep Date:	Analysis Date: **6/4/2014**	SeqNo: **550322** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.2	70	130			
Toluene	20	1.0	20.00	0	101	80	120			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130			
Surr: Dibromofluoromethane	9.0		10.00		90.1	70	130			
Surr: Toluene-d8	9.7		10.00		96.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1406001**
09-Jun-14

Client: Animas Environmental Services
Project: FORMER THRIFTWAY REFINERY TW #810

Sample ID **MB-13486** SampType: **MBLK** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW** Batch ID: **13486** RunNo: **19043**
Prep Date: **6/3/2014** Analysis Date: **6/4/2014** SeqNo: **550143** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-13486** SampType: **LCS** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW** Batch ID: **13486** RunNo: **19043**
Prep Date: **6/3/2014** Analysis Date: **6/4/2014** SeqNo: **550144** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Sample ID **1406001-012BMS** SampType: **MS** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **MW-21** Batch ID: **13486** RunNo: **19043**
Prep Date: **6/3/2014** Analysis Date: **6/4/2014** SeqNo: **550161** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	6010	40.0	2000	3956	103	80	120			

Sample ID **1406001-012BMSD** SampType: **MSD** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **MW-21** Batch ID: **13486** RunNo: **19043**
Prep Date: **6/3/2014** Analysis Date: **6/4/2014** SeqNo: **550162** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	6020	40.0	2000	3956	103	80	120	0.0333	5	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1406001 RcptNo: 1

Received by/date: QF 05/31/14

Logged By: **Michelle Garcia** 5/31/2014 12:00:00 PM Michelle Garcia

Completed By: **Michelle Garcia** 6/2/2014 8:26:18 AM Michelle Garcia

Reviewed By: 06/02/14

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

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

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

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Animas Environmental Services

Mailing Address: 624 E Comanche Farmington NM
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other_____

☐ EDD (Type) _____

X Standard ☐ Rush_____

Project Name:
FORMER THRIFTWAY REFINERY TW #810

Project #:

Project Manager:
D. Watson

Sampler: MIKE BEAUPARLANT

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.9°C

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1401100	8260 BTEX, Total Naph, MTBE	300.0 Chloride/Sulfate	2540C TDS											Air Bubbles (Y or N)
		H2O	~~TW-7~~	3-40 mL VOA/ 1-500mL plastic	HCL/non		X	X	X											
5-29-14	11:50	H2O	TW-8	3-40 mL VOA/ 1-500mL plastic	HCL/non	-001	X	X	X											
	12:46	H2O	TW-15	3-40 mL VOA/ 1-500mL plastic	HCL/non	-002	X	X	X											
	14:24	H2O	TW-37	3-40 mL VOA/ 2-250mL plastic	HCL/non	-003	X	X	X											
	15:20 ~~14:42~~	H2O	TW-41	3-40 mL VOA/ 1-500mL plastic	HCL/non	-004	X	X	X											
	15:~~42~~	H2O	TW-42	3-40 mL VOA/ 1-500mL plastic	HCL/non	-005	X	X	X											
5-30-14	10:00	H2O	TW-43	3-40 mL VOA/ 1-500mL plastic	HCL/non	-006	X	X	X											
	10:29	H2O	TW-45	3-40 mL VOA/ 1-500mL plastic	HCL/non	-007	X	X	X											
	10:45	H2O	TW-52	3-40 mL VOA/ 1-500mL plastic	HCL/non	-008	X	X	X											
	11:06	H2O	TW-54	3-40 mL VOA/ 1-500mL plastic	HCL/non	-009	X	X	X											

Date	Time	Relinquished by:	Received by:	Date	Time
5/30/14	1518	[signature]	[signature]	5/30/14	1515
5/31/14	824	[signature]	[signature]	5/31/14	12:00

Remarks: Bill to BioTech

Client:	Animas Environmental Services
Mailing Address:	624 E Comanche Farmington NM
	Farmington, NM 87401
Phone #:	505-564-2281
email or Fax#:	505-324-2022
QA/QC Package:	X Standard ☐ Level 4 (Full Validation)
Accreditation:	☐ NELAP ☐ Other_____
☐ EDD (Type)	_____

X Standard ☐ Rush_____

Project Name: FORMER THRIFTWAY REFINERY TW #810

Project #:

Project Manager: D. Watson

Sampler: MIKE BEAUPARLANT

On Ice: ☐ Yes ☐ No

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1406001	8260 BTEX, Total Naph, MTBE	300.0 Chloride/Sulfate	2540C TDS	Air Bubbles (Y or N)
		H2O	TW-54	3-40 mL VOA/ 1-500mL plastic	HCL/non	~~010~~	X	X	X	
5-30-14	12:20	H2O	MW-7	3-40 mL VOA/ 1-500mL plastic	HCL/non	-010	X	X	X	
	11:58	H2O	MW-20	3-40 mL VOA/ 1-500mL plastic	HCL/non	-011	X	X	X	
	11:30	H2O	MW-21	3-40 mL VOA/ 2-250mL plastic	HCL/non	-012	X	X	X	
		~~A1~~ 06/02/14	Trip Blank	2-40mL VOA	HCl	~~-014~~ 13	X			
5-29-14	13:14		TW-22	3-40mL VOA/ 1-500mL plastic	HCl/non	-015 14	X	X	X	
	14:42		TW-38	3-40mL VOA/ 1-500mL plastic	HCl/non	-016 15	X	X	X	
	15:02		TW-39	3-40mL VOA 1-500mL plastic	HCl/non	-017 16	X	X	X	
	13:50		TW-36	3-40mL VOAs - 1-500mL plastic	HCl/non	-018 17	X	X	X	

Date	Time	Relinquished by:	Received by:	Date	Time
5/30/14	1515	[signature]	[signature]	5/30/14	1515
5/31/14	824	[signature]	[signature]	5/31/14	12:00

Remarks: Bill to BioTech

Page 2 of 2

Did not receive Trip Blank 06/02/14

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

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

December 30, 2014

Brent Everett
Animas Environmental
604 Pinon Street
Farmington, NM 87401
TEL:
FAX

RE: Former Thriftway Refinery #810 OrderNo.: 1412604

Dear Brent Everett:

Hall Environmental Analysis Laboratory received 7 sample(s) on 12/12/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1412604**
Date Reported: **12/30/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-8
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 12:05:00 PM
Lab ID: 1412604-001
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/12/2014 9:12:39 PM	16791
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/12/2014 9:12:39 PM	16791
Surr: DNOP	105	59-141		%REC	1	12/12/2014 9:12:39 PM	16791
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.14	0.050		mg/L	1	12/12/2014 6:44:49 PM	R23126
Surr: BFB	98.9	80-120		%REC	1	12/12/2014 6:44:49 PM	R23126
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Fluoride	0.56	0.10		mg/L	1	12/12/2014 1:07:03 PM	R23144
Chloride	120	10		mg/L	20	12/12/2014 1:44:18 PM	R23144
Bromide	0.82	0.10		mg/L	1	12/12/2014 1:07:03 PM	R23144
Sulfate	2200	50	*	mg/L	100	12/18/2014 2:25:27 AM	R23215
SM2340B: HARDNESS						Analyst:	**JLF**
Hardness (As CaCO3)	1400	6.6		mg/L	1	12/15/2014 10:11:00 AM	R23138
EPA METHOD 7470: MERCURY						Analyst:	**MMD**
Mercury	ND	0.00020		mg/L	1	12/18/2014 1:27:32 PM	16881
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**JLF**
Calcium	480	10		mg/L	10	12/15/2014 10:49:04 AM	R23138
Magnesium	44	1.0		mg/L	1	12/15/2014 10:47:19 AM	R23138
Potassium	4.5	1.0		mg/L	1	12/15/2014 10:47:19 AM	R23138
Sodium	600	10		mg/L	10	12/15/2014 10:49:04 AM	R23138
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**ELS**
Arsenic	ND	0.020		mg/L	1	12/16/2014 10:08:14 AM	16831
Barium	ND	0.020		mg/L	1	12/16/2014 10:08:14 AM	16831
Cadmium	ND	0.0020		mg/L	1	12/16/2014 10:08:14 AM	16831
Chromium	ND	0.0060		mg/L	1	12/16/2014 10:08:14 AM	16831
Lead	ND	0.0050		mg/L	1	12/16/2014 10:08:14 AM	16831
Selenium	ND	0.050		mg/L	1	12/16/2014 10:08:14 AM	16831
Silver	ND	0.0050		mg/L	1	12/16/2014 10:08:14 AM	16831
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Benzene	ND	1.0		µg/L	1	12/17/2014 11:39:23 AM	R23202
Toluene	ND	1.0		µg/L	1	12/17/2014 11:39:23 AM	R23202
Ethylbenzene	ND	1.0		µg/L	1	12/17/2014 11:39:23 AM	R23202
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/17/2014 11:39:23 AM	R23202
Naphthalene	ND	2.0		µg/L	1	12/17/2014 11:39:23 AM	R23202
1-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 11:39:23 AM	R23202
2-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 11:39:23 AM	R23202

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-8
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 12:05:00 PM
Lab ID: 1412604-001
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Xylenes, Total	ND	1.5		µg/L	1	12/17/2014 11:39:23 AM	R23202
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%REC	1	12/17/2014 11:39:23 AM	R23202
Surr: 4-Bromofluorobenzene	109	70-130		%REC	1	12/17/2014 11:39:23 AM	R23202
Surr: Dibromofluoromethane	92.6	70-130		%REC	1	12/17/2014 11:39:23 AM	R23202
Surr: Toluene-d8	89.5	70-130		%REC	1	12/17/2014 11:39:23 AM	R23202
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**JRR**
Conductivity	3500	0.010		µmhos/cm	1	12/15/2014 7:38:34 PM	R23163
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3820	40.0	*	mg/L	1	12/18/2014 1:33:00 PM	16878

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-18
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 12:32:00 PM
Lab ID: 1412604-002
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/12/2014 9:42:12 PM	16791
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/12/2014 9:42:12 PM	16791
Surr: DNOP	99.6	59-141		%REC	1	12/12/2014 9:42:12 PM	16791
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/12/2014 7:11:49 PM	R23126
Surr: BFB	94.8	80-120		%REC	1	12/12/2014 7:11:49 PM	R23126
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Benzene	ND	1.0		µg/L	1	12/17/2014 12:07:20 PM	R23202
Toluene	ND	1.0		µg/L	1	12/17/2014 12:07:20 PM	R23202
Ethylbenzene	ND	1.0		µg/L	1	12/17/2014 12:07:20 PM	R23202
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/17/2014 12:07:20 PM	R23202
Naphthalene	ND	2.0		µg/L	1	12/17/2014 12:07:20 PM	R23202
1-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 12:07:20 PM	R23202
2-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 12:07:20 PM	R23202
Xylenes, Total	ND	1.5		µg/L	1	12/17/2014 12:07:20 PM	R23202
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%REC	1	12/17/2014 12:07:20 PM	R23202
Surr: 4-Bromofluorobenzene	111	70-130		%REC	1	12/17/2014 12:07:20 PM	R23202
Surr: Dibromofluoromethane	90.5	70-130		%REC	1	12/17/2014 12:07:20 PM	R23202
Surr: Toluene-d8	95.3	70-130		%REC	1	12/17/2014 12:07:20 PM	R23202

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-23
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 1:04:00 PM
Lab ID: 1412604-003
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/12/2014 10:11:44 PM	16791
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/12/2014 10:11:44 PM	16791
Surr: DNOP	94.2	59-141		%REC	1	12/12/2014 10:11:44 PM	16791
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	12/12/2014 7:38:52 PM	R23126
Surr: BFB	94.0	80-120		%REC	2	12/12/2014 7:38:52 PM	R23126
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Benzene	ND	1.0		µg/L	1	12/17/2014 12:35:15 PM	R23202
Toluene	ND	1.0		µg/L	1	12/17/2014 12:35:15 PM	R23202
Ethylbenzene	ND	1.0		µg/L	1	12/17/2014 12:35:15 PM	R23202
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/17/2014 12:35:15 PM	R23202
Naphthalene	ND	2.0		µg/L	1	12/17/2014 12:35:15 PM	R23202
1-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 12:35:15 PM	R23202
2-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 12:35:15 PM	R23202
Xylenes, Total	ND	1.5		µg/L	1	12/17/2014 12:35:15 PM	R23202
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%REC	1	12/17/2014 12:35:15 PM	R23202
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	12/17/2014 12:35:15 PM	R23202
Surr: Dibromofluoromethane	97.4	70-130		%REC	1	12/17/2014 12:35:15 PM	R23202
Surr: Toluene-d8	93.2	70-130		%REC	1	12/17/2014 12:35:15 PM	R23202

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-24
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 1:45:00 PM
Lab ID: 1412604-004
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/12/2014 10:41:15 PM	16791
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/12/2014 10:41:15 PM	16791
Surr: DNOP	105	59-141		%REC	1	12/12/2014 10:41:15 PM	16791
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.068	0.050		mg/L	1	12/15/2014 12:28:36 PM	R23160
Surr: BFB	95.5	80-120		%REC	1	12/15/2014 12:28:36 PM	R23160
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Benzene	ND	1.0		µg/L	1	12/17/2014 1:03:07 PM	R23202
Toluene	ND	1.0		µg/L	1	12/17/2014 1:03:07 PM	R23202
Ethylbenzene	ND	1.0		µg/L	1	12/17/2014 1:03:07 PM	R23202
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/17/2014 1:03:07 PM	R23202
Naphthalene	ND	2.0		µg/L	1	12/17/2014 1:03:07 PM	R23202
1-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 1:03:07 PM	R23202
2-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 1:03:07 PM	R23202
Xylenes, Total	ND	1.5		µg/L	1	12/17/2014 1:03:07 PM	R23202
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	12/17/2014 1:03:07 PM	R23202
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	12/17/2014 1:03:07 PM	R23202
Surr: Dibromofluoromethane	105	70-130		%REC	1	12/17/2014 1:03:07 PM	R23202
Surr: Toluene-d8	96.6	70-130		%REC	1	12/17/2014 1:03:07 PM	R23202

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-30
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 2:20:00 PM
Lab ID: 1412604-005
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/12/2014 11:10:47 PM	16791
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/12/2014 11:10:47 PM	16791
Surr: DNOP	107	59-141		%REC	1	12/12/2014 11:10:47 PM	16791
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/12/2014 8:32:54 PM	R23126
Surr: BFB	94.4	80-120		%REC	1	12/12/2014 8:32:54 PM	R23126
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Fluoride	0.60	0.50		mg/L	5	12/12/2014 1:56:42 PM	R23144
Chloride	300	10	*	mg/L	20	12/12/2014 2:09:07 PM	R23144
Bromide	0.62	0.50		mg/L	5	12/12/2014 1:56:42 PM	R23144
Sulfate	2300	50	*	mg/L	100	12/18/2014 2:37:51 AM	R23215
SM2340B: HARDNESS						Analyst:	**JLF**
Hardness (As CaCO3)	1300	6.6		mg/L	1	12/15/2014 10:11:00 AM	R23138
EPA METHOD 7470: MERCURY						Analyst:	**MMD**
Mercury	ND	0.00020		mg/L	1	12/18/2014 1:32:51 PM	16881
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**JLF**
Calcium	440	10		mg/L	10	12/15/2014 10:52:44 AM	R23138
Magnesium	49	1.0		mg/L	1	12/15/2014 10:50:58 AM	R23138
Potassium	4.8	1.0		mg/L	1	12/15/2014 10:50:58 AM	R23138
Sodium	880	10		mg/L	10	12/15/2014 10:52:44 AM	R23138
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**ELS**
Arsenic	0.032	0.020		mg/L	1	12/16/2014 10:09:59 AM	16831
Barium	0.022	0.020		mg/L	1	12/16/2014 10:09:59 AM	16831
Cadmium	ND	0.0020		mg/L	1	12/16/2014 10:09:59 AM	16831
Chromium	ND	0.0060		mg/L	1	12/16/2014 10:09:59 AM	16831
Lead	ND	0.0050		mg/L	1	12/16/2014 10:09:59 AM	16831
Selenium	ND	0.050		mg/L	1	12/16/2014 10:09:59 AM	16831
Silver	ND	0.0050		mg/L	1	12/16/2014 10:09:59 AM	16831
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Benzene	ND	1.0		µg/L	1	12/17/2014 1:31:08 PM	R23202
Toluene	ND	1.0		µg/L	1	12/17/2014 1:31:08 PM	R23202
Ethylbenzene	ND	1.0		µg/L	1	12/17/2014 1:31:08 PM	R23202
Methyl tert-butyl ether (MTBE)	7.7	1.0		µg/L	1	12/17/2014 1:31:08 PM	R23202
Naphthalene	ND	2.0		µg/L	1	12/17/2014 1:31:08 PM	R23202
1-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 1:31:08 PM	R23202
2-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 1:31:08 PM	R23202

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-30
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 2:20:00 PM
Lab ID: 1412604-005
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Xylenes, Total	ND	1.5		µg/L	1	12/17/2014 1:31:08 PM	R23202
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	1	12/17/2014 1:31:08 PM	R23202
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	12/17/2014 1:31:08 PM	R23202
Surr: Dibromofluoromethane	89.1	70-130		%REC	1	12/17/2014 1:31:08 PM	R23202
Surr: Toluene-d8	94.3	70-130		%REC	1	12/17/2014 1:31:08 PM	R23202
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**JRR**
Conductivity	4400	0.010		µmhos/cm	1	12/15/2014 7:42:44 PM	R23163
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4090	200	*	mg/L	1	12/18/2014 1:33:00 PM	16878

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-31
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 2:40:00 PM
Lab ID: 1412604-006
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/12/2014 11:40:30 PM	16791
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/12/2014 11:40:30 PM	16791
Surr: DNOP	100	59-141		%REC	1	12/12/2014 11:40:30 PM	16791
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/12/2014 10:49:22 PM	R23126
Surr: BFB	92.1	80-120		%REC	1	12/12/2014 10:49:22 PM	R23126
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Benzene	ND	1.0		µg/L	1	12/17/2014 1:59:01 PM	R23202
Toluene	ND	1.0		µg/L	1	12/17/2014 1:59:01 PM	R23202
Ethylbenzene	ND	1.0		µg/L	1	12/17/2014 1:59:01 PM	R23202
Methyl tert-butyl ether (MTBE)	5.8	1.0		µg/L	1	12/17/2014 1:59:01 PM	R23202
Naphthalene	ND	2.0		µg/L	1	12/17/2014 1:59:01 PM	R23202
1-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 1:59:01 PM	R23202
2-Methylnaphthalene	ND	4.0		µg/L	1	12/17/2014 1:59:01 PM	R23202
Xylenes, Total	ND	1.5		µg/L	1	12/17/2014 1:59:01 PM	R23202
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%REC	1	12/17/2014 1:59:01 PM	R23202
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	12/17/2014 1:59:01 PM	R23202
Surr: Dibromofluoromethane	94.2	70-130		%REC	1	12/17/2014 1:59:01 PM	R23202
Surr: Toluene-d8	93.9	70-130		%REC	1	12/17/2014 1:59:01 PM	R23202

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-37
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 3:25:00 PM
Lab ID: 1412604-007
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/13/2014 12:10:07 AM	16791
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/13/2014 12:10:07 AM	16791
Surr: DNOP	112	59-141		%REC	1	12/13/2014 12:10:07 AM	16791
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	1.4	0.25		mg/L	5	12/12/2014 11:16:46 PM	R23126
Surr: BFB	111	80-120		%REC	5	12/12/2014 11:16:46 PM	R23126
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Chloride	110	50		mg/L	100	12/23/2014 5:06:54 PM	R23347
Sulfate	1900	50	*	mg/L	100	12/23/2014 5:06:54 PM	R23347
SM2340B: HARDNESS						Analyst:	**JLF**
Hardness (As CaCO3)	1100	6.6		mg/L	1	12/15/2014 10:11:00 AM	R23138
EPA METHOD 7470: MERCURY						Analyst:	**MMD**
Mercury	ND	0.00020		mg/L	1	12/18/2014 1:34:38 PM	16881
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**JLF**
Calcium	380	10		mg/L	10	12/15/2014 11:08:18 AM	R23138
Magnesium	44	1.0		mg/L	1	12/15/2014 10:54:39 AM	R23138
Potassium	3.0	1.0		mg/L	1	12/15/2014 10:54:39 AM	R23138
Sodium	740	10		mg/L	10	12/15/2014 11:08:18 AM	R23138
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**ELS**
Arsenic	ND	0.020		mg/L	1	12/16/2014 10:11:44 AM	16831
Barium	ND	0.020		mg/L	1	12/16/2014 10:11:44 AM	16831
Cadmium	ND	0.0020		mg/L	1	12/16/2014 10:11:44 AM	16831
Chromium	ND	0.0060		mg/L	1	12/16/2014 10:11:44 AM	16831
Lead	ND	0.0050		mg/L	1	12/16/2014 10:11:44 AM	16831
Selenium	ND	0.050		mg/L	1	12/16/2014 10:11:44 AM	16831
Silver	ND	0.0050		mg/L	1	12/16/2014 10:11:44 AM	16831
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Benzene	140	5.0		µg/L	5	12/17/2014 2:26:58 PM	R23202
Toluene	ND	5.0		µg/L	5	12/17/2014 2:26:58 PM	R23202
Ethylbenzene	72	5.0		µg/L	5	12/17/2014 2:26:58 PM	R23202
Methyl tert-butyl ether (MTBE)	68	5.0		µg/L	5	12/17/2014 2:26:58 PM	R23202
Naphthalene	ND	10		µg/L	5	12/17/2014 2:26:58 PM	R23202
1-Methylnaphthalene	ND	20		µg/L	5	12/17/2014 2:26:58 PM	R23202
2-Methylnaphthalene	ND	20		µg/L	5	12/17/2014 2:26:58 PM	R23202
Xylenes, Total	ND	7.5		µg/L	5	12/17/2014 2:26:58 PM	R23202
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	5	12/17/2014 2:26:58 PM	R23202

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-37
Project: Former Thriftway Refinery #810
Collection Date: 12/10/2014 3:25:00 PM
Lab ID: 1412604-007
Matrix: AQUEOUS
Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**KJH**
Surr: 4-Bromofluorobenzene	109	70-130		%REC	5	12/17/2014 2:26:58 PM	R23202
Surr: Dibromofluoromethane	106	70-130		%REC	5	12/17/2014 2:26:58 PM	R23202
Surr: Toluene-d8	96.8	70-130		%REC	5	12/17/2014 2:26:58 PM	R23202
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3710	40.0	*	mg/L	1	12/18/2014 1:33:00 PM	16878

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R23144** RunNo: **23144**
Prep Date: Analysis Date: **12/12/2014** SeqNo: **683499** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R23144** RunNo: **23144**
Prep Date: Analysis Date: **12/12/2014** SeqNo: **683500** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.7	90	110			
Chloride	4.8	0.50	5.000	0	95.2	90	110			
Bromide	2.5	0.10	2.500	0	99.8	90	110			

Sample ID **1412604-001EMS** SampType: **MS** TestCode: **EPA Method 300.0: Anions**
Client ID: **TW-8** Batch ID: **R23144** RunNo: **23144**
Prep Date: Analysis Date: **12/12/2014** SeqNo: **683512** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.0	0.10	0.5000	0.5590	90.6	66.1	113			
Bromide	3.1	0.10	2.500	0.8230	91.5	82.5	103			

Sample ID **1412604-001EMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**
Client ID: **TW-8** Batch ID: **R23144** RunNo: **23144**
Prep Date: Analysis Date: **12/12/2014** SeqNo: **683513** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.0	0.10	0.5000	0.5590	87.8	66.1	113	1.39	20	
Bromide	2.9	0.10	2.500	0.8230	82.4	82.5	103	7.58	20	S

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R23215** RunNo: **23215**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685779** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R23215** RunNo: **23215**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685780** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.8	0.50	10.00	0	97.5	90	110			

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R23215** RunNo: **23215**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685833** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R23215** RunNo: **23215**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685834** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.8	0.50	10.00	0	98.5	90	110			

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R23347** RunNo: **23347**
Prep Date: Analysis Date: **12/23/2014** SeqNo: **689881** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R23347** RunNo: **23347**
Prep Date: Analysis Date: **12/23/2014** SeqNo: **689882** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.3	90	110			
Sulfate	9.6	0.50	10.00	0	95.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID	**MB-16791**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Diesel Range**				
Client ID:	**PBW**	Batch ID:	**16791**	RunNo:	**23096**				
Prep Date:	**12/12/2014**	Analysis Date:	**12/12/2014**	SeqNo:	**682802**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		103	59	141			

Sample ID	**LCS-16791**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Diesel Range**				
Client ID:	**LCSW**	Batch ID:	**16791**	RunNo:	**23096**				
Prep Date:	**12/12/2014**	Analysis Date:	**12/12/2014**	SeqNo:	**682803**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	121	69.7	142			
Surr: DNOP	0.60		0.5000		120	59	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **5ML RB** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW** Batch ID: **R23126** RunNo: **23126**
Prep Date: Analysis Date: **12/12/2014** SeqNo: **683028** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		92.3	80	120			

Sample ID **2.5UG GRO LCS** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW** Batch ID: **R23126** RunNo: **23126**
Prep Date: Analysis Date: **12/12/2014** SeqNo: **683032** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.9	80	120			
Surr: BFB	19		20.00		95.6	80	120			

Sample ID **5ML RB** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW** Batch ID: **R23160** RunNo: **23160**
Prep Date: Analysis Date: **12/15/2014** SeqNo: **683895** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		93.2	80	120			

Sample ID **2.5UG GRO LCS** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW** Batch ID: **R23160** RunNo: **23160**
Prep Date: Analysis Date: **12/15/2014** SeqNo: **683896** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	93.5	80	120			
Surr: BFB	19		20.00		96.3	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **5mL-rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **R23202** RunNo: **23202**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685270** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.4	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.3	70	130			
Surr: Toluene-d8	9.3		10.00		92.8	70	130			

Sample ID **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **R23202** RunNo: **23202**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685271** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	22	1.0	20.00	0	112	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.4	70	130			
Surr: Toluene-d8	9.6		10.00		95.6	70	130			

Sample ID **1412604-007a ms** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **TW-37** Batch ID: **R23202** RunNo: **23202**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685279** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	260	5.0	100.0	144.3	112	70	130			
Toluene	110	5.0	100.0	0	110	70	130			
Surr: 1,2-Dichloroethane-d4	50		50.00		99.9	70	130			
Surr: 4-Bromofluorobenzene	57		50.00		114	70	130			
Surr: Dibromofluoromethane	45		50.00		90.0	70	130			
Surr: Toluene-d8	47		50.00		94.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **1412604-007a msd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **TW-37** Batch ID: **R23202** RunNo: **23202**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685280** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	270	5.0	100.0	144.3	130	70	130	6.76	20	
Toluene	140	5.0	100.0	0	137	70	130	22.1	20	RS
Surr: 1,2-Dichloroethane-d4	51		50.00		102	70	130	0	0	
Surr: 4-Bromofluorobenzene	55		50.00		111	70	130	0	0	
Surr: Dibromofluoromethane	50		50.00		101	70	130	0	0	
Surr: Toluene-d8	48		50.00		96.9	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **MB-16881** SampType: **MBLK** TestCode: **EPA Method 7470: Mercury**
Client ID: **PBW** Batch ID: **16881** RunNo: **23232**
Prep Date: **12/17/2014** Analysis Date: **12/18/2014** SeqNo: **686450** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID **LCS-16881** SampType: **LCS** TestCode: **EPA Method 7470: Mercury**
Client ID: **LCSW** Batch ID: **16881** RunNo: **23232**
Prep Date: **12/17/2014** Analysis Date: **12/18/2014** SeqNo: **686451** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.4	80	120			

Sample ID **1412604-001CMS** SampType: **MS** TestCode: **EPA Method 7470: Mercury**
Client ID: **TW-8** Batch ID: **16881** RunNo: **23232**
Prep Date: **12/17/2014** Analysis Date: **12/18/2014** SeqNo: **686453** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	102	75	125			

Sample ID **1412604-001CMSD** SampType: **MSD** TestCode: **EPA Method 7470: Mercury**
Client ID: **TW-8** Batch ID: **16881** RunNo: **23232**
Prep Date: **12/17/2014** Analysis Date: **12/18/2014** SeqNo: **686454** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	102	75	125	0.229	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R23138**	RunNo: **23138**
Prep Date:	Analysis Date: **12/15/2014**	SeqNo: **683361** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R23138**	RunNo: **23138**
Prep Date:	Analysis Date: **12/15/2014**	SeqNo: **683362** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	99.5	80	120			
Magnesium	50	1.0	50.00	0	99.4	80	120			
Potassium	48	1.0	50.00	0	95.8	80	120			
Sodium	49	1.0	50.00	0	97.1	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID	**MB-16831**	SampType:	**MBLK**	TestCode:	**EPA 6010B: Total Recoverable Metals**
Client ID:	**PBW**	Batch ID:	**16831**	RunNo:	**23176**
Prep Date:	**12/15/2014**	Analysis Date:	**12/16/2014**	SeqNo:	**684504** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	**LCS-16831**	SampType:	**LCS**	TestCode:	**EPA 6010B: Total Recoverable Metals**
Client ID:	**LCSW**	Batch ID:	**16831**	RunNo:	**23176**
Prep Date:	**12/15/2014**	Analysis Date:	**12/16/2014**	SeqNo:	**684505** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.51	0.020	0.5000	0	102	80	120			
Barium	0.49	0.020	0.5000	0	97.9	80	120			
Cadmium	0.49	0.0020	0.5000	0	97.4	80	120			
Chromium	0.48	0.0060	0.5000	0	95.4	80	120			
Lead	0.49	0.0050	0.5000	0	97.7	80	120			
Selenium	0.49	0.050	0.5000	0	97.7	80	120			
Silver	0.11	0.0050	0.1000	0	105	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412604**
30-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID	**MB-16878**	SampType:	**MBLK**	TestCode:	**SM2540C MOD: Total Dissolved Solids**
Client ID:	**PBW**	Batch ID:	**16878**	RunNo:	**23227**
Prep Date:	**12/17/2014**	Analysis Date:	**12/18/2014**	SeqNo:	**686313** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	**LCS-16878**	SampType:	**LCS**	TestCode:	**SM2540C MOD: Total Dissolved Solids**
Client ID:	**LCSW**	Batch ID:	**16878**	RunNo:	**23227**
Prep Date:	**12/17/2014**	Analysis Date:	**12/18/2014**	SeqNo:	**686314** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1412604 RcptNo: 1

Received by/date: AT 12/12/14

Logged By: Anne Thorne 12/12/2014 7:32:00 AM Anne Thorne

Completed By: Anne Thorne 12/12/2014 Anne Thorne

Reviewed By: 12/12/14

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? ~~Yes ☑~~ No ☐
9. Was preservative added to bottles? Yes ☐ ~~No ☑~~ NA ☐

For metals and hardness analysis: Added 1mL HNO_3 to -001C, -005C, -007C, and 0.2mL HNO_3 to -008 + -007B for acceptable pH. Held in login for 24 hours

10. VOA vials have zero headspace? Yes ☑ No ☐ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

# of preserved bottles checked for pH:	6
(<2 or >12 unless noted)	
Adjusted?	YES
Checked by:	

12/12/14 @1020

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

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Chain of-Custody Record

Client: Animas Environmental Services

Mailing Address: 604 W Pinon St
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: beverett@animasenvironmental.com

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
X Standard ☐ Rush

Project Name:
Former Thriftway Refinery #810

Project #:
AES 050204

Project Manager:
B. Everett

Sampler: M. Beauparlant

On Ice: X Yes ☐ No

Sample Temperature: 1.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1412069	8015 TPH GRO and DRO	8260 VOCs see below	8270 SVOC see below	RCRA 8 Metals	Dissolved Metals(Ca, Mg, K, Na)6010	300.0 Bromide, Chloride, Fluoride, Sulfate	300.0 Chloride and Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1						Air Bubbles (Y or N)
		~~Water~~	~~TW-7~~	3-40mL VOA/1-250mL Amber/1-1L Amber/1-500 mL Plastic	3-HCL/Non/Non/Non		~~X~~	~~X~~	~~X~~				~~X~~		~~X~~							
12-10-14	12:05	Water	TW-8	~~3-40mL VOA/1-250mL Amber/2-500mL & 1-125mL Plastic/1-1L Amber~~	~~3-HCl/Non/2-HNO3 & 1-Non/Non~~	-001	X	X	X	X	X	X		X	X	X						
		Water	~~TW-13~~	3-40mL VOA/1-1L Amber/1-250mL Amber	3-HCL/Non/Non		~~X~~	~~X~~	~~X~~													
		Water	~~TW-14~~	3-40mL VOA/1-1L Amber/1-250mL Amber	3-HCL/Non/Non		~~X~~	~~X~~	~~X~~													
12-10-14	12:32	Water	TW-18	3-40mL VOA/1-1L Amber/1-250mL Amber	3-HCL/Non/Non	-002	X	X	X													
		Water	~~TW-19~~	3-40mL VOA/1-1L Amber/1-250mL Amber	3-HCL/Non/Non		~~X~~	~~X~~	~~X~~													
		Water	~~TW-20~~	3-40mL VOA/1-1L Amber/1-250mL Amber	3-HCL/Non/Non		~~X~~	~~X~~	~~X~~													
		Water	~~TW-22~~	3-40mL VOA/1-1L Amber/1-250mL Amber	3-HCL/Non/Non		~~X~~	~~X~~	~~X~~													

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/11/14	1754	[signature]	[signature]	12/11/14	1754
Date:	Time:	Relinquished by:	Received by:	Date	Time
12/11/14	1849	[signature]	[signature]	12/12/14	0732

Remarks: Run TPH 8015 prior to analyzing for 8260 and 8270. Run the full VOC spectrum only in the event the reported TPH-GRO is greater than 80 mg/L, if GRO is less than 80 mg/L run BTEX/total napthalenes and MTBE. SVOCs per EPA Method 8270D will be run if TPH-DRO value is greater than 200 mg/L. Direct Bill to BioTech. Per Andy 8015 GRO-DRO $60, discounted price for TDS.

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

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Chain of-Custody Record

Client: Animas Environmental Services

Mailing Address: 604 W Pinon St
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: beverett@animasenvironmental.com

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
X Standard ☐ Rush

Project Name:
Former Thriftway Refinery #810

Project #:
AES 050204

Project Manager:
B. Everett

Sampler: M. Beauparlant

On Ice: X Yes ☐ No

Sample Temperature: 4°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1412001	8015 TPH GRO and DRO	8260 VOCs see below	8270 SVOC see below	RCRA 8 Metals	Dissolved Metals(Ca, Mg, K, Na)6010	300.0 Bromide, Chloride, Fluoride, Sulfate	300.0 Chloride and Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1					Air Bubbles (Y or N)
12-10-14	13:04	Water	TW-23	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-003	X	X	X												
12-10-14	13:45	Water	TW-24	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-004	X	X	X												
		Water	~~TW-26~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X												
		Water	~~TW-28~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X												
		Water	~~TW-29~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X												
12-10-14	14:20	Water	TW-30	3-40mL VoA/1-250mL Amber/ 2-500mL & 1-125mL Plastic/ 1-1L Amber	3-HCl/Non/2-HNO3 & 1-Non/Non	AS 12/12/14 5 -005	X	X	X	X	X	X		X	X	X					
12-10-14	14:40	Water	TW-31	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-006	X	X	X												

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/11/14	1754	Michael Beauparlant	Christin Walter	12/11/14	1754
12/11/14	1847	Christin Walter	Anne Thom	12/12/14	0732

Remarks: Run TPH 8015 prior to analyzing for 8260 and 8270. Run the full VOC spectrum only in the event the reported TPH-GRO is greater than 80 mg/L, if GRO is less than 80 mg/L run BTEX/total napthalenes and MTBE. SVOCs per EPA Method 8270D will be run if TPH-DRO value is greater than 200 mg/L. Direct Bill to BioTech. Per Andy 8015 GRO-DRO $60, discounted price for TDS.

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

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 604 W Pinon St
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: beverett@animasenvironmental.com

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
X Standard ☐ Rush

Project Name:
Former Thriftway Refinery #810

Project #:
AES 050204

Project Manager:
B. Everett

Sampler: M. Beauparlant

On Ice: ☐ Yes ☐ No

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	8015 TPH GRO and DRO	8260 VOCs see below	8270 SVOC see below	RCRA 8 Metals	Dissolved Metals(Ca, Mg, K, Na)6010	300.0 Bromide, Chloride, Fluoride, Sulfate	300.0 Chloride and Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1						Air Bubbles (Y or N)
		Water	~~TW-32~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
		Water	~~TW-33~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
		Water	~~TW-35~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
12-10-14	15:25	Water	TW-37	3-40mL VOA/1-250mL Amber/ 1-1L Amber/1-500 mL Plastic	3-HCL/ Non/Non/Non	AT 12/12/14 -WG	X	X	X				X		X							
		Water	~~TW-38~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
12/14 12-11-14	10:55	Water	TW-39	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
		Water	~~TW-40~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
12/14 12-11-14	11:27	Water	TW-41	3-40mL VoA/1-250mL Amber/ 2-500mL & 1-125mL Plastic/ 1-1L Amber	3-HCl/Non/2-HNO3 & 1-Non/Non		X	X	X	X	X	X		X	X	X						
12/14 12-11-14	11:52	Water	TW-42	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/11/14	1754	[signature]	[signature]	12/11/14	1754
12/11/14	1849	[signature]	[signature]	12/12/14	0732

Remarks: Run TPH 8015 prior to analyzing for 8260 and 8270. Run the full VOC spectrum only in the event the reported TPH-GRO is greater than 80 mg/L, if GRO is less than 80 mg/L run BTEX/total napthalenes and MTBE. SVOCs per EPA Method 8270D will be run if TPH-DRO value is greater than 200 mg/L. Direct Bill to BioTech. Per Andy 8015 GRO-DRO $60, discounted price for TDS.

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p.1

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

December 31, 2014

Brent Everett
Animas Environmental
604 Pinon Street
Farmington, NM 87401
TEL:
FAX

RE: Former Thriftway Refinery #810 OrderNo.: 1412702

Dear Brent Everett:

Hall Environmental Analysis Laboratory received 17 sample(s) on 12/16/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1412702**
Date Reported: **12/31/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-39
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 10:55:00 AM
Lab ID: 1412702-001
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 3:23:13 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 3:23:13 PM	16856
Surr: DNOP	82.6	59-141		%REC	1	12/16/2014 3:23:13 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.35	0.050		mg/L	1	12/16/2014 2:31:29 PM	R23178
Surr: BFB	109	80-120		%REC	1	12/16/2014 2:31:29 PM	R23178
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/20/2014 4:35:53 PM	R23281
Toluene	ND	1.0		µg/L	1	12/20/2014 4:35:53 PM	R23281
Ethylbenzene	ND	1.0		µg/L	1	12/20/2014 4:35:53 PM	R23281
Methyl tert-butyl ether (MTBE)	6.9	1.0		µg/L	1	12/20/2014 4:35:53 PM	R23281
Naphthalene	ND	2.0		µg/L	1	12/20/2014 4:35:53 PM	R23281
1-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 4:35:53 PM	R23281
2-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 4:35:53 PM	R23281
Xylenes, Total	ND	1.5		µg/L	1	12/20/2014 4:35:53 PM	R23281
Surr: 1,2-Dichloroethane-d4	78.8	70-130		%REC	1	12/20/2014 4:35:53 PM	R23281
Surr: 4-Bromofluorobenzene	85.0	70-130		%REC	1	12/20/2014 4:35:53 PM	R23281
Surr: Dibromofluoromethane	93.1	70-130		%REC	1	12/20/2014 4:35:53 PM	R23281
Surr: Toluene-d8	95.1	70-130		%REC	1	12/20/2014 4:35:53 PM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-41
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 11:27:00 AM
Lab ID: 1412702-002
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	2.4	1.0		mg/L	1	12/16/2014 4:27:55 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 4:27:55 PM	16856
Surr: DNOP	90.2	59-141		%REC	1	12/16/2014 4:27:55 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	9.0	0.25		mg/L	5	12/16/2014 2:58:49 PM	R23178
Surr: BFB	156	80-120	S	%REC	5	12/16/2014 2:58:49 PM	R23178
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Fluoride	ND	0.50		mg/L	5	12/17/2014 5:19:10 PM	R23215
Chloride	590	25	*	mg/L	50	12/19/2014 11:43:21 PM	R23282
Bromide	0.66	0.50		mg/L	5	12/17/2014 5:19:10 PM	R23215
Sulfate	770	10	*	mg/L	20	12/17/2014 5:31:36 PM	R23215
SM2340B: HARDNESS						Analyst:	**ELS**
Hardness (As CaCO3)	840	6.6		mg/L	1	12/18/2014 8:42:00 AM	R23222
EPA METHOD 7470: MERCURY						Analyst:	**MMD**
Mercury	ND	0.00020		mg/L	1	12/18/2014 2:01:25 PM	16881
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**ELS**
Calcium	260	10		mg/L	10	12/18/2014 9:52:42 AM	R23222
Magnesium	47	1.0		mg/L	1	12/18/2014 10:25:41 AM	R23222
Potassium	5.3	1.0		mg/L	1	12/18/2014 10:25:41 AM	R23222
Sodium	860	10		mg/L	10	12/18/2014 9:52:42 AM	R23222
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**ELS**
Arsenic	ND	0.020		mg/L	1	12/18/2014 9:21:22 AM	16885
Barium	0.034	0.020		mg/L	1	12/18/2014 9:21:22 AM	16885
Cadmium	ND	0.0020		mg/L	1	12/18/2014 9:21:22 AM	16885
Chromium	ND	0.0060		mg/L	1	12/18/2014 9:21:22 AM	16885
Lead	ND	0.0050		mg/L	1	12/18/2014 9:21:22 AM	16885
Selenium	ND	0.050		mg/L	1	12/18/2014 9:21:22 AM	16885
Silver	ND	0.0050		mg/L	1	12/18/2014 9:21:22 AM	16885
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	88	10		µg/L	10	12/22/2014 1:44:21 PM	R23319
Toluene	ND	10		µg/L	10	12/22/2014 1:44:21 PM	R23319
Ethylbenzene	480	10		µg/L	10	12/22/2014 1:44:21 PM	R23319
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	12/22/2014 1:44:21 PM	R23319
Naphthalene	39	20		µg/L	10	12/22/2014 1:44:21 PM	R23319
1-Methylnaphthalene	ND	40		µg/L	10	12/22/2014 1:44:21 PM	R23319
2-Methylnaphthalene	ND	40		µg/L	10	12/22/2014 1:44:21 PM	R23319

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-41
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 11:27:00 AM
Lab ID: 1412702-002
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Xylenes, Total	1600	15		µg/L	10	12/22/2014 1:44:21 PM	R23319
Surr: 1,2-Dichloroethane-d4	84.2	70-130		%REC	10	12/22/2014 1:44:21 PM	R23319
Surr: 4-Bromofluorobenzene	86.8	70-130		%REC	10	12/22/2014 1:44:21 PM	R23319
Surr: Dibromofluoromethane	98.1	70-130		%REC	10	12/22/2014 1:44:21 PM	R23319
Surr: Toluene-d8	92.8	70-130		%REC	10	12/22/2014 1:44:21 PM	R23319
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**JRR**
Conductivity	4300	0.010		µmhos/cm	1	12/17/2014 5:02:46 PM	R23220
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3180	100	*	mg/L	1	12/19/2014 12:59:00 PM	16897

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-42
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 11:52:00 AM
Lab ID: 1412702-003
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 4:49:21 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 4:49:21 PM	16856
Surr: DNOP	87.6	59-141		%REC	1	12/16/2014 4:49:21 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/16/2014 4:48:22 PM	R23178
Surr: BFB	95.7	80-120		%REC	1	12/16/2014 4:48:22 PM	R23178
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	2.0		µg/L	2	12/20/2014 6:53:22 PM	R23281
Toluene	ND	2.0		µg/L	2	12/20/2014 6:53:22 PM	R23281
Ethylbenzene	ND	2.0		µg/L	2	12/20/2014 6:53:22 PM	R23281
Methyl tert-butyl ether (MTBE)	7.3	2.0		µg/L	2	12/20/2014 6:53:22 PM	R23281
Naphthalene	ND	4.0		µg/L	2	12/20/2014 6:53:22 PM	R23281
1-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 6:53:22 PM	R23281
2-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 6:53:22 PM	R23281
Xylenes, Total	ND	3.0		µg/L	2	12/20/2014 6:53:22 PM	R23281
Surr: 1,2-Dichloroethane-d4	85.1	70-130		%REC	2	12/20/2014 6:53:22 PM	R23281
Surr: 4-Bromofluorobenzene	83.6	70-130		%REC	2	12/20/2014 6:53:22 PM	R23281
Surr: Dibromofluoromethane	101	70-130		%REC	2	12/20/2014 6:53:22 PM	R23281
Surr: Toluene-d8	93.5	70-130		%REC	2	12/20/2014 6:53:22 PM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-43
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 12:15:00 PM
Lab ID: 1412702-004
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 5:11:00 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 5:11:00 PM	16856
Surr: DNOP	83.8	59-141		%REC	1	12/16/2014 5:11:00 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.36	0.10		mg/L	2	12/16/2014 5:15:47 PM	R23178
Surr: BFB	97.3	80-120		%REC	2	12/16/2014 5:15:47 PM	R23178
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	2.0		µg/L	2	12/20/2014 7:20:49 PM	R23281
Toluene	ND	2.0		µg/L	2	12/20/2014 7:20:49 PM	R23281
Ethylbenzene	ND	2.0		µg/L	2	12/20/2014 7:20:49 PM	R23281
Methyl tert-butyl ether (MTBE)	330	2.0		µg/L	2	12/20/2014 7:20:49 PM	R23281
Naphthalene	ND	4.0		µg/L	2	12/20/2014 7:20:49 PM	R23281
1-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 7:20:49 PM	R23281
2-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 7:20:49 PM	R23281
Xylenes, Total	ND	3.0		µg/L	2	12/20/2014 7:20:49 PM	R23281
Surr: 1,2-Dichloroethane-d4	83.0	70-130		%REC	2	12/20/2014 7:20:49 PM	R23281
Surr: 4-Bromofluorobenzene	82.3	70-130		%REC	2	12/20/2014 7:20:49 PM	R23281
Surr: Dibromofluoromethane	100	70-130		%REC	2	12/20/2014 7:20:49 PM	R23281
Surr: Toluene-d8	91.7	70-130		%REC	2	12/20/2014 7:20:49 PM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-45
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 1:50:00 PM
Lab ID: 1412702-005
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 5:32:22 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 5:32:22 PM	16856
Surr: DNOP	82.2	59-141		%REC	1	12/16/2014 5:32:22 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.13	0.050		mg/L	1	12/16/2014 5:43:14 PM	R23178
Surr: BFB	99.2	80-120		%REC	1	12/16/2014 5:43:14 PM	R23178
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/20/2014 7:48:11 PM	R23281
Toluene	ND	1.0		µg/L	1	12/20/2014 7:48:11 PM	R23281
Ethylbenzene	ND	1.0		µg/L	1	12/20/2014 7:48:11 PM	R23281
Methyl tert-butyl ether (MTBE)	79	1.0		µg/L	1	12/20/2014 7:48:11 PM	R23281
Naphthalene	ND	2.0		µg/L	1	12/20/2014 7:48:11 PM	R23281
1-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 7:48:11 PM	R23281
2-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 7:48:11 PM	R23281
Xylenes, Total	ND	1.5		µg/L	1	12/20/2014 7:48:11 PM	R23281
Surr: 1,2-Dichloroethane-d4	85.1	70-130		%REC	1	12/20/2014 7:48:11 PM	R23281
Surr: 4-Bromofluorobenzene	84.1	70-130		%REC	1	12/20/2014 7:48:11 PM	R23281
Surr: Dibromofluoromethane	101	70-130		%REC	1	12/20/2014 7:48:11 PM	R23281
Surr: Toluene-d8	90.9	70-130		%REC	1	12/20/2014 7:48:11 PM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-46
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 2:05:00 PM
Lab ID: 1412702-006
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 5:53:59 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 5:53:59 PM	16856
Surr: DNOP	88.8	59-141		%REC	1	12/16/2014 5:53:59 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/16/2014 6:10:32 PM	R23178
Surr: BFB	97.5	80-120		%REC	1	12/16/2014 6:10:32 PM	R23178
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/20/2014 8:15:37 PM	R23281
Toluene	ND	1.0		µg/L	1	12/20/2014 8:15:37 PM	R23281
Ethylbenzene	ND	1.0		µg/L	1	12/20/2014 8:15:37 PM	R23281
Methyl tert-butyl ether (MTBE)	9.7	1.0		µg/L	1	12/20/2014 8:15:37 PM	R23281
Naphthalene	ND	2.0		µg/L	1	12/20/2014 8:15:37 PM	R23281
1-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 8:15:37 PM	R23281
2-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 8:15:37 PM	R23281
Xylenes, Total	ND	1.5		µg/L	1	12/20/2014 8:15:37 PM	R23281
Surr: 1,2-Dichloroethane-d4	83.2	70-130		%REC	1	12/20/2014 8:15:37 PM	R23281
Surr: 4-Bromofluorobenzene	79.6	70-130		%REC	1	12/20/2014 8:15:37 PM	R23281
Surr: Dibromofluoromethane	99.3	70-130		%REC	1	12/20/2014 8:15:37 PM	R23281
Surr: Toluene-d8	95.1	70-130		%REC	1	12/20/2014 8:15:37 PM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-47
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 2:32:00 PM
Lab ID: 1412702-007
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 6:36:58 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 6:36:58 PM	16856
Surr: DNOP	88.8	59-141		%REC	1	12/16/2014 6:36:58 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/16/2014 6:37:44 PM	R23178
Surr: BFB	95.9	80-120		%REC	1	12/16/2014 6:37:44 PM	R23178
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Chloride	1500	100	*	mg/L	200	12/19/2014 11:55:45 PM	R23282
Sulfate	5000	100	*	mg/L	200	12/19/2014 11:55:45 PM	R23282
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/23/2014 1:14:43 PM	R23334
Toluene	ND	1.0		µg/L	1	12/23/2014 1:14:43 PM	R23334
Ethylbenzene	ND	1.0		µg/L	1	12/23/2014 1:14:43 PM	R23334
Methyl tert-butyl ether (MTBE)	21	1.0		µg/L	1	12/23/2014 1:14:43 PM	R23334
Naphthalene	ND	2.0		µg/L	1	12/23/2014 1:14:43 PM	R23334
1-Methylnaphthalene	ND	4.0		µg/L	1	12/23/2014 1:14:43 PM	R23334
2-Methylnaphthalene	ND	4.0		µg/L	1	12/23/2014 1:14:43 PM	R23334
Xylenes, Total	ND	1.5		µg/L	1	12/23/2014 1:14:43 PM	R23334
Surr: 1,2-Dichloroethane-d4	88.5	70-130		%REC	1	12/23/2014 1:14:43 PM	R23334
Surr: 4-Bromofluorobenzene	93.5	70-130		%REC	1	12/23/2014 1:14:43 PM	R23334
Surr: Dibromofluoromethane	102	70-130		%REC	1	12/23/2014 1:14:43 PM	R23334
Surr: Toluene-d8	93.5	70-130		%REC	1	12/23/2014 1:14:43 PM	R23334
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	8630	200	*	mg/L	1	12/19/2014 12:59:00 PM	16897

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-48
Project: Former Thriftway Refinery #810
Collection Date: 12/12/2014 11:14:00 AM
Lab ID: 1412702-008
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 6:58:22 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 6:58:22 PM	16856
Surr: DNOP	92.5	59-141		%REC	1	12/16/2014 6:58:22 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	12/16/2014 7:05:03 PM	R23178
Surr: BFB	95.0	80-120		%REC	2	12/16/2014 7:05:03 PM	R23178
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	2.0		µg/L	2	12/20/2014 8:43:01 PM	R23281
Toluene	ND	2.0		µg/L	2	12/20/2014 8:43:01 PM	R23281
Ethylbenzene	ND	2.0		µg/L	2	12/20/2014 8:43:01 PM	R23281
Methyl tert-butyl ether (MTBE)	6.6	2.0		µg/L	2	12/20/2014 8:43:01 PM	R23281
Naphthalene	ND	4.0		µg/L	2	12/20/2014 8:43:01 PM	R23281
1-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 8:43:01 PM	R23281
2-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 8:43:01 PM	R23281
Xylenes, Total	ND	3.0		µg/L	2	12/20/2014 8:43:01 PM	R23281
Surr: 1,2-Dichloroethane-d4	83.1	70-130		%REC	2	12/20/2014 8:43:01 PM	R23281
Surr: 4-Bromofluorobenzene	81.1	70-130		%REC	2	12/20/2014 8:43:01 PM	R23281
Surr: Dibromofluoromethane	97.6	70-130		%REC	2	12/20/2014 8:43:01 PM	R23281
Surr: Toluene-d8	92.8	70-130		%REC	2	12/20/2014 8:43:01 PM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-49
Project: Former Thriftway Refinery #810
Collection Date: 12/12/2014 12:20:00 PM
Lab ID: 1412702-009
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 7:19:48 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 7:19:48 PM	16856
Surr: DNOP	85.2	59-141		%REC	1	12/16/2014 7:19:48 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	12/16/2014 7:32:18 PM	R23178
Surr: BFB	95.2	80-120		%REC	2	12/16/2014 7:32:18 PM	R23178
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	2.0		µg/L	2	12/20/2014 9:10:25 PM	R23281
Toluene	ND	2.0		µg/L	2	12/20/2014 9:10:25 PM	R23281
Ethylbenzene	ND	2.0		µg/L	2	12/20/2014 9:10:25 PM	R23281
Methyl tert-butyl ether (MTBE)	8.2	2.0		µg/L	2	12/20/2014 9:10:25 PM	R23281
Naphthalene	ND	4.0		µg/L	2	12/20/2014 9:10:25 PM	R23281
1-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 9:10:25 PM	R23281
2-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 9:10:25 PM	R23281
Xylenes, Total	ND	3.0		µg/L	2	12/20/2014 9:10:25 PM	R23281
Surr: 1,2-Dichloroethane-d4	87.5	70-130		%REC	2	12/20/2014 9:10:25 PM	R23281
Surr: 4-Bromofluorobenzene	83.4	70-130		%REC	2	12/20/2014 9:10:25 PM	R23281
Surr: Dibromofluoromethane	105	70-130		%REC	2	12/20/2014 9:10:25 PM	R23281
Surr: Toluene-d8	93.2	70-130		%REC	2	12/20/2014 9:10:25 PM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-51
Project: Former Thriftway Refinery #810
Collection Date: 12/12/2014 12:45:00 PM
Lab ID: 1412702-010
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 7:41:11 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 7:41:11 PM	16856
Surr: DNOP	92.5	59-141		%REC	1	12/16/2014 7:41:11 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.38	0.050		mg/L	1	12/16/2014 9:48:47 PM	R23178
Surr: BFB	107	80-120		%REC	1	12/16/2014 9:48:47 PM	R23178
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Chloride	290	10	*	mg/L	20	12/17/2014 6:46:05 PM	R23215
Sulfate	2900	50	*	mg/L	100	12/20/2014 12:08:10 AM	R23282
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	2.0		µg/L	2	12/20/2014 9:37:48 PM	R23281
Toluene	ND	2.0		µg/L	2	12/20/2014 9:37:48 PM	R23281
Ethylbenzene	ND	2.0		µg/L	2	12/20/2014 9:37:48 PM	R23281
Methyl tert-butyl ether (MTBE)	190	2.0		µg/L	2	12/20/2014 9:37:48 PM	R23281
Naphthalene	ND	4.0		µg/L	2	12/20/2014 9:37:48 PM	R23281
1-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 9:37:48 PM	R23281
2-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 9:37:48 PM	R23281
Xylenes, Total	ND	3.0		µg/L	2	12/20/2014 9:37:48 PM	R23281
Surr: 1,2-Dichloroethane-d4	78.8	70-130		%REC	2	12/20/2014 9:37:48 PM	R23281
Surr: 4-Bromofluorobenzene	83.9	70-130		%REC	2	12/20/2014 9:37:48 PM	R23281
Surr: Dibromofluoromethane	92.2	70-130		%REC	2	12/20/2014 9:37:48 PM	R23281
Surr: Toluene-d8	90.6	70-130		%REC	2	12/20/2014 9:37:48 PM	R23281
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4950	200	*	mg/L	1	12/19/2014 12:59:00 PM	16897

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-52
Project: Former Thriftway Refinery #810
Collection Date: 12/12/2014 1:03:00 PM
Lab ID: 1412702-011
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 8:02:38 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 8:02:38 PM	16856
Surr: DNOP	92.5	59-141		%REC	1	12/16/2014 8:02:38 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.091	0.050		mg/L	1	12/16/2014 10:16:07 PM	R23178
Surr: BFB	96.4	80-120		%REC	1	12/16/2014 10:16:07 PM	R23178
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Chloride	270	10	*	mg/L	20	12/17/2014 7:10:56 PM	R23215
Sulfate	4300	50	*	mg/L	100	12/20/2014 12:20:34 AM	R23282
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	2.0		µg/L	2	12/20/2014 10:05:11 PM	R23281
Toluene	ND	2.0		µg/L	2	12/20/2014 10:05:11 PM	R23281
Ethylbenzene	ND	2.0		µg/L	2	12/20/2014 10:05:11 PM	R23281
Methyl tert-butyl ether (MTBE)	86	2.0		µg/L	2	12/20/2014 10:05:11 PM	R23281
Naphthalene	ND	4.0		µg/L	2	12/20/2014 10:05:11 PM	R23281
1-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 10:05:11 PM	R23281
2-Methylnaphthalene	ND	8.0		µg/L	2	12/20/2014 10:05:11 PM	R23281
Xylenes, Total	ND	3.0		µg/L	2	12/20/2014 10:05:11 PM	R23281
Surr: 1,2-Dichloroethane-d4	84.6	70-130		%REC	2	12/20/2014 10:05:11 PM	R23281
Surr: 4-Bromofluorobenzene	87.7	70-130		%REC	2	12/20/2014 10:05:11 PM	R23281
Surr: Dibromofluoromethane	95.1	70-130		%REC	2	12/20/2014 10:05:11 PM	R23281
Surr: Toluene-d8	92.4	70-130		%REC	2	12/20/2014 10:05:11 PM	R23281
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	6670	200	*	mg/L	1	12/19/2014 12:59:00 PM	16897

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-53
Project: Former Thriftway Refinery #810
Collection Date: 12/12/2014 1:40:00 PM
Lab ID: 1412702-012
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 8:24:04 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 8:24:04 PM	16856
Surr: DNOP	96.9	59-141		%REC	1	12/16/2014 8:24:04 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/16/2014 10:43:24 PM	R23178
Surr: BFB	96.5	80-120		%REC	1	12/16/2014 10:43:24 PM	R23178
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Fluoride	ND	0.50		mg/L	5	12/17/2014 7:23:21 PM	R23215
Chloride	320	10	*	mg/L	20	12/17/2014 7:35:45 PM	R23215
Bromide	1.0	0.50		mg/L	5	12/17/2014 7:23:21 PM	R23215
Sulfate	4100	100	*	mg/L	200	12/20/2014 12:32:58 AM	R23282
SM2340B: HARDNESS						Analyst:	**ELS**
Hardness (As CaCO3)	1400	6.6		mg/L	1	12/18/2014 8:42:00 AM	R23222
EPA METHOD 7470: MERCURY						Analyst:	**MMD**
Mercury	ND	0.00020		mg/L	1	12/18/2014 2:03:10 PM	16881
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**ELS**
Calcium	420	20		mg/L	20	12/18/2014 10:27:13 AM	R23222
Magnesium	81	1.0		mg/L	1	12/18/2014 9:54:09 AM	R23222
Potassium	6.2	1.0		mg/L	1	12/18/2014 9:54:09 AM	R23222
Sodium	1700	20		mg/L	20	12/18/2014 10:27:13 AM	R23222
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**ELS**
Arsenic	0.24	0.020		mg/L	1	12/18/2014 9:22:54 AM	16885
Barium	0.037	0.020		mg/L	1	12/18/2014 9:22:54 AM	16885
Cadmium	ND	0.0020		mg/L	1	12/18/2014 9:22:54 AM	16885
Chromium	ND	0.0060		mg/L	1	12/18/2014 9:22:54 AM	16885
Lead	ND	0.0050		mg/L	1	12/18/2014 9:22:54 AM	16885
Selenium	ND	0.050		mg/L	1	12/18/2014 9:22:54 AM	16885
Silver	ND	0.0050		mg/L	1	12/18/2014 9:22:54 AM	16885
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/20/2014 10:32:31 PM	R23281
Toluene	ND	1.0		µg/L	1	12/20/2014 10:32:31 PM	R23281
Ethylbenzene	ND	1.0		µg/L	1	12/20/2014 10:32:31 PM	R23281
Methyl tert-butyl ether (MTBE)	13	1.0		µg/L	1	12/20/2014 10:32:31 PM	R23281
Naphthalene	ND	2.0		µg/L	1	12/20/2014 10:32:31 PM	R23281
1-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 10:32:31 PM	R23281
2-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 10:32:31 PM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-53
Project: Former Thriftway Refinery #810
Collection Date: 12/12/2014 1:40:00 PM
Lab ID: 1412702-012
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Xylenes, Total	ND	1.5		µg/L	1	12/20/2014 10:32:31 PM	R23281
Surr: 1,2-Dichloroethane-d4	84.8	70-130		%REC	1	12/20/2014 10:32:31 PM	R23281
Surr: 4-Bromofluorobenzene	84.2	70-130		%REC	1	12/20/2014 10:32:31 PM	R23281
Surr: Dibromofluoromethane	100	70-130		%REC	1	12/20/2014 10:32:31 PM	R23281
Surr: Toluene-d8	90.5	70-130		%REC	1	12/20/2014 10:32:31 PM	R23281
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**JRR**
Conductivity	7200	0.010		µmhos/cm	1	12/17/2014 5:07:06 PM	R23220
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	6140	200	*	mg/L	1	12/19/2014 12:59:00 PM	16897

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-54
Project: Former Thriftway Refinery #810
Collection Date: 12/12/2014 2:00:00 PM
Lab ID: 1412702-013
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 8:45:41 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 8:45:41 PM	16856
Surr: DNOP	88.1	59-141		%REC	1	12/16/2014 8:45:41 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/16/2014 11:10:42 PM	R23178
Surr: BFB	96.3	80-120		%REC	1	12/16/2014 11:10:42 PM	R23178
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Fluoride	ND	0.50		mg/L	5	12/17/2014 7:48:10 PM	R23215
Chloride	140	10		mg/L	20	12/17/2014 8:00:35 PM	R23215
Bromide	ND	0.50		mg/L	5	12/17/2014 7:48:10 PM	R23215
Sulfate	3000	50	*	mg/L	100	12/20/2014 12:45:23 AM	R23282
SM2340B: HARDNESS						Analyst:	**ELS**
Hardness (As CaCO3)	990	6.6		mg/L	1	12/18/2014 8:42:00 AM	R23222
EPA METHOD 7470: MERCURY						Analyst:	**MMD**
Mercury	ND	0.00020		mg/L	1	12/18/2014 2:04:55 PM	16881
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**ELS**
Calcium	340	20		mg/L	20	12/18/2014 10:28:56 AM	R23222
Magnesium	33	1.0		mg/L	1	12/18/2014 10:00:27 AM	R23222
Potassium	7.1	1.0		mg/L	1	12/18/2014 10:00:27 AM	R23222
Sodium	1100	20		mg/L	20	12/18/2014 10:28:56 AM	R23222
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	**ELS**
Arsenic	0.13	0.020		mg/L	1	12/18/2014 9:24:37 AM	16885
Barium	0.024	0.020		mg/L	1	12/18/2014 9:24:37 AM	16885
Cadmium	ND	0.0020		mg/L	1	12/18/2014 9:24:37 AM	16885
Chromium	ND	0.0060		mg/L	1	12/18/2014 9:24:37 AM	16885
Lead	ND	0.0050		mg/L	1	12/18/2014 9:24:37 AM	16885
Selenium	ND	0.050		mg/L	1	12/18/2014 9:24:37 AM	16885
Silver	ND	0.0050		mg/L	1	12/18/2014 9:24:37 AM	16885
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/20/2014 10:59:51 PM	R23281
Toluene	ND	1.0		µg/L	1	12/20/2014 10:59:51 PM	R23281
Ethylbenzene	ND	1.0		µg/L	1	12/20/2014 10:59:51 PM	R23281
Methyl tert-butyl ether (MTBE)	18	1.0		µg/L	1	12/20/2014 10:59:51 PM	R23281
Naphthalene	ND	2.0		µg/L	1	12/20/2014 10:59:51 PM	R23281
1-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 10:59:51 PM	R23281
2-Methylnaphthalene	ND	4.0		µg/L	1	12/20/2014 10:59:51 PM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: TW-54
Project: Former Thriftway Refinery #810
Collection Date: 12/12/2014 2:00:00 PM
Lab ID: 1412702-013
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Xylenes, Total	ND	1.5		µg/L	1	12/20/2014 10:59:51 PM	R23281
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%REC	1	12/20/2014 10:59:51 PM	R23281
Surr: 4-Bromofluorobenzene	85.1	70-130		%REC	1	12/20/2014 10:59:51 PM	R23281
Surr: Dibromofluoromethane	102	70-130		%REC	1	12/20/2014 10:59:51 PM	R23281
Surr: Toluene-d8	87.0	70-130		%REC	1	12/20/2014 10:59:51 PM	R23281
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**JRR**
Conductivity	5100	0.010		µmhos/cm	1	12/17/2014 5:10:58 PM	R23220
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4320	200	*	mg/L	1	12/19/2014 12:59:00 PM	16897

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: MW-7
Project: Former Thriftway Refinery #810
Collection Date: 12/12/2014 11:47:00 AM
Lab ID: 1412702-014
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 9:06:59 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 9:06:59 PM	16856
Surr: DNOP	97.0	59-141		%REC	1	12/16/2014 9:06:59 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.065	0.050		mg/L	1	12/16/2014 11:38:00 PM	R23178
Surr: BFB	100	80-120		%REC	1	12/16/2014 11:38:00 PM	R23178
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/21/2014 1:43:50 AM	R23281
Toluene	ND	1.0		µg/L	1	12/21/2014 1:43:50 AM	R23281
Ethylbenzene	ND	1.0		µg/L	1	12/21/2014 1:43:50 AM	R23281
Methyl tert-butyl ether (MTBE)	59	1.0		µg/L	1	12/21/2014 1:43:50 AM	R23281
Naphthalene	ND	2.0		µg/L	1	12/21/2014 1:43:50 AM	R23281
1-Methylnaphthalene	ND	4.0		µg/L	1	12/21/2014 1:43:50 AM	R23281
2-Methylnaphthalene	ND	4.0		µg/L	1	12/21/2014 1:43:50 AM	R23281
Xylenes, Total	ND	1.5		µg/L	1	12/21/2014 1:43:50 AM	R23281
Surr: 1,2-Dichloroethane-d4	85.5	70-130		%REC	1	12/21/2014 1:43:50 AM	R23281
Surr: 4-Bromofluorobenzene	85.1	70-130		%REC	1	12/21/2014 1:43:50 AM	R23281
Surr: Dibromofluoromethane	103	70-130		%REC	1	12/21/2014 1:43:50 AM	R23281
Surr: Toluene-d8	91.3	70-130		%REC	1	12/21/2014 1:43:50 AM	R23281

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: MW-20
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 3:20:00 PM
Lab ID: 1412702-015
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 9:28:28 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 9:28:28 PM	16856
Surr: DNOP	97.4	59-141		%REC	1	12/16/2014 9:28:28 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.74	0.050		mg/L	1	12/17/2014 12:05:16 AM	R23178
Surr: BFB	130	80-120	S	%REC	1	12/17/2014 12:05:16 AM	R23178
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Chloride	440	50	*	mg/L	100	12/29/2014 5:48:12 PM	R23405
Sulfate	2400	50	*	mg/L	100	12/29/2014 5:48:12 PM	R23405
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/21/2014 2:11:07 AM	R23281
Toluene	ND	1.0		µg/L	1	12/21/2014 2:11:07 AM	R23281
Ethylbenzene	ND	1.0		µg/L	1	12/21/2014 2:11:07 AM	R23281
Methyl tert-butyl ether (MTBE)	70	1.0		µg/L	1	12/21/2014 2:11:07 AM	R23281
Naphthalene	ND	2.0		µg/L	1	12/21/2014 2:11:07 AM	R23281
1-Methylnaphthalene	ND	4.0		µg/L	1	12/21/2014 2:11:07 AM	R23281
2-Methylnaphthalene	ND	4.0		µg/L	1	12/21/2014 2:11:07 AM	R23281
Xylenes, Total	ND	1.5		µg/L	1	12/21/2014 2:11:07 AM	R23281
Surr: 1,2-Dichloroethane-d4	79.4	70-130		%REC	1	12/21/2014 2:11:07 AM	R23281
Surr: 4-Bromofluorobenzene	83.2	70-130		%REC	1	12/21/2014 2:11:07 AM	R23281
Surr: Dibromofluoromethane	91.2	70-130		%REC	1	12/21/2014 2:11:07 AM	R23281
Surr: Toluene-d8	92.4	70-130		%REC	1	12/21/2014 2:11:07 AM	R23281
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4990	100	*	mg/L	1	12/19/2014 12:59:00 PM	16897

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: MW-21
Project: Former Thriftway Refinery #810
Collection Date: 12/11/2014 2:55:00 PM
Lab ID: 1412702-016
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/16/2014 9:49:55 PM	16856
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/16/2014 9:49:55 PM	16856
Surr: DNOP	87.3	59-141		%REC	1	12/16/2014 9:49:55 PM	16856
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	0.070	0.050		mg/L	1	12/17/2014 12:59:50 AM	R23178
Surr: BFB	96.0	80-120		%REC	1	12/17/2014 12:59:50 AM	R23178
EPA METHOD 300.0: ANIONS						Analyst:	**lgp**
Chloride	810	25	*	mg/L	50	12/20/2014 1:35:02 AM	R23282
Sulfate	1800	25	*	mg/L	50	12/20/2014 1:35:02 AM	R23282
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/21/2014 2:38:24 AM	R23281
Toluene	ND	1.0		µg/L	1	12/21/2014 2:38:24 AM	R23281
Ethylbenzene	ND	1.0		µg/L	1	12/21/2014 2:38:24 AM	R23281
Methyl tert-butyl ether (MTBE)	66	1.0		µg/L	1	12/21/2014 2:38:24 AM	R23281
Naphthalene	ND	2.0		µg/L	1	12/21/2014 2:38:24 AM	R23281
1-Methylnaphthalene	ND	4.0		µg/L	1	12/21/2014 2:38:24 AM	R23281
2-Methylnaphthalene	ND	4.0		µg/L	1	12/21/2014 2:38:24 AM	R23281
Xylenes, Total	ND	1.5		µg/L	1	12/21/2014 2:38:24 AM	R23281
Surr: 1,2-Dichloroethane-d4	83.9	70-130		%REC	1	12/21/2014 2:38:24 AM	R23281
Surr: 4-Bromofluorobenzene	80.5	70-130		%REC	1	12/21/2014 2:38:24 AM	R23281
Surr: Dibromofluoromethane	96.0	70-130		%REC	1	12/21/2014 2:38:24 AM	R23281
Surr: Toluene-d8	89.4	70-130		%REC	1	12/21/2014 2:38:24 AM	R23281
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	4130	100	*	mg/L	1	12/19/2014 12:59:00 PM	16897

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: Trip Blank
Project: Former Thriftway Refinery #810
Collection Date:
Lab ID: 1412702-017
Matrix: AQUEOUS
Received Date: 12/16/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/17/2014 1:27:11 AM	R23178
Surr: BFB	95.7	80-120		%REC	1	12/17/2014 1:27:11 AM	R23178
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	1.0		µg/L	1	12/23/2014 2:10:23 PM	R23334
Toluene	ND	1.0		µg/L	1	12/23/2014 2:10:23 PM	R23334
Ethylbenzene	ND	1.0		µg/L	1	12/23/2014 2:10:23 PM	R23334
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/23/2014 2:10:23 PM	R23334
Naphthalene	ND	2.0		µg/L	1	12/23/2014 2:10:23 PM	R23334
1-Methylnaphthalene	ND	4.0		µg/L	1	12/23/2014 2:10:23 PM	R23334
2-Methylnaphthalene	ND	4.0		µg/L	1	12/23/2014 2:10:23 PM	R23334
Xylenes, Total	ND	1.5		µg/L	1	12/23/2014 2:10:23 PM	R23334
Surr: 1,2-Dichloroethane-d4	86.8	70-130		%REC	1	12/23/2014 2:10:23 PM	R23334
Surr: 4-Bromofluorobenzene	90.0	70-130		%REC	1	12/23/2014 2:10:23 PM	R23334
Surr: Dibromofluoromethane	103	70-130		%REC	1	12/23/2014 2:10:23 PM	R23334
Surr: Toluene-d8	97.0	70-130		%REC	1	12/23/2014 2:10:23 PM	R23334

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R23215** RunNo: **23215**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685779** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R23215** RunNo: **23215**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685780** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	105	90	110			
Chloride	4.7	0.50	5.000	0	94.4	90	110			
Bromide	2.5	0.10	2.500	0	99.6	90	110			
Sulfate	9.8	0.50	10.00	0	97.5	90	110			

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R23215** RunNo: **23215**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685833** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R23215** RunNo: **23215**
Prep Date: Analysis Date: **12/17/2014** SeqNo: **685834** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.4	90	110			
Chloride	4.7	0.50	5.000	0	95.0	90	110			
Bromide	2.5	0.10	2.500	0	98.4	90	110			
Sulfate	9.8	0.50	10.00	0	98.5	90	110			

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R23282** RunNo: **23282**
Prep Date: Analysis Date: **12/19/2014** SeqNo: **688053** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R23282** RunNo: **23282**
Prep Date: Analysis Date: **12/19/2014** SeqNo: **688053** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R23282** RunNo: **23282**
Prep Date: Analysis Date: **12/19/2014** SeqNo: **688054** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.3	90	110			
Sulfate	10	0.50	10.00	0	99.5	90	110			

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R23405** RunNo: **23405**
Prep Date: Analysis Date: **12/29/2014** SeqNo: **691543** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R23405** RunNo: **23405**
Prep Date: Analysis Date: **12/29/2014** SeqNo: **691544** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.6	90	110			
Sulfate	9.5	0.50	10.00	0	94.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **MB-16856** SampType: **MBLK** TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **PBW** Batch ID: **16856** RunNo: **23159**
Prep Date: **12/16/2014** Analysis Date: **12/16/2014** SeqNo: **684466** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.70		1.000		70.1	59	141			

Sample ID **LCS-16856** SampType: **LCS** TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSW** Batch ID: **16856** RunNo: **23159**
Prep Date: **12/16/2014** Analysis Date: **12/16/2014** SeqNo: **684467** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.7	1.0	5.000	0	94.2	69.7	142			
Surr: DNOP	0.43		0.5000		86.6	59	141			

Sample ID **1412702-001BMS** SampType: **MS** TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **TW-39** Batch ID: **16856** RunNo: **23159**
Prep Date: **12/16/2014** Analysis Date: **12/16/2014** SeqNo: **684975** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.6	1.0	5.000	0	111	55	159			
Surr: DNOP	0.46		0.5000		91.2	59	141			

Sample ID **1412702-001BMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **TW-39** Batch ID: **16856** RunNo: **23159**
Prep Date: **12/16/2014** Analysis Date: **12/16/2014** SeqNo: **684976** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	5.000	0	119	55	159	6.89	20	
Surr: DNOP	0.50		0.5000		101	59	141	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **5ML RBB** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW** Batch ID: **R23178** RunNo: **23178**
Prep Date: Analysis Date: **12/16/2014** SeqNo: **684644** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.8	80	120			

Sample ID **2.5UG GRO LCS** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW** Batch ID: **R23178** RunNo: **23178**
Prep Date: Analysis Date: **12/16/2014** SeqNo: **684645** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.4	80	120			
Surr: BFB	20		20.00		99.0	80	120			

Sample ID **5ML RB-II** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW** Batch ID: **R23178** RunNo: **23178**
Prep Date: Analysis Date: **12/16/2014** SeqNo: **684651** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		95.2	80	120			

Sample ID **2.5UG GRO LCS-II** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW** Batch ID: **R23178** RunNo: **23178**
Prep Date: Analysis Date: **12/16/2014** SeqNo: **684652** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	99.0	80	120			
Surr: BFB	20		20.00		101	80	120			

Sample ID **1412702-002AMS** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TW-41** Batch ID: **R23178** RunNo: **23178**
Prep Date: Analysis Date: **12/16/2014** SeqNo: **684655** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	11	0.25	2.500	9.013	85.6	70.4	127			
Surr: BFB	160		100.0		161	80	120			S

Sample ID **1412702-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TW-41** Batch ID: **R23178** RunNo: **23178**
Prep Date: Analysis Date: **12/16/2014** SeqNo: **684656** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **1412702-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TW-41** Batch ID: **R23178** RunNo: **23178**
Prep Date: Analysis Date: **12/16/2014** SeqNo: **684656** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	11	0.25	2.500	9.013	88.7	70.4	127	0.688	20	
Surr: BFB	160		100.0		162	80	120	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R23281**	RunNo: **23281**
Prep Date:	Analysis Date: **12/20/2014**	SeqNo: **687977** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.6	70	130			
Surr: 4-Bromofluorobenzene	8.0		10.00		80.4	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.7	70	130			
Surr: Toluene-d8	9.6		10.00		96.2	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R23281**	RunNo: **23281**
Prep Date:	Analysis Date: **12/21/2014**	SeqNo: **687978** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.2	70	130			
Surr: 4-Bromofluorobenzene	8.3		10.00		83.3	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	8.7		10.00		87.0	70	130			

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R23319**	RunNo: **23319**
Prep Date:	Analysis Date: **12/22/2014**	SeqNo: **689047** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.0	70	130			
Surr: 4-Bromofluorobenzene	8.5		10.00		84.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **5ml rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **R23319** RunNo: **23319**
Prep Date: Analysis Date: **12/22/2014** SeqNo: **689047** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.4		10.00		94.3	70	130			

Sample ID **100nglcs,200ngann** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **R23319** RunNo: **23319**
Prep Date: Analysis Date: **12/22/2014** SeqNo: **689048** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	83.4	70	130			
Toluene	19	1.0	20.00	0	97.0	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.0	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.1	70	130			
Surr: Dibromofluoromethane	9.2		10.00		91.6	70	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Sample ID **1412702-002ams** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **TW-41** Batch ID: **R23319** RunNo: **23319**
Prep Date: Analysis Date: **12/22/2014** SeqNo: **689051** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	250	10	200.0	88.10	78.5	70	130			
Toluene	210	10	200.0	3.198	101	70	130			
Surr: 1,2-Dichloroethane-d4	84		100.0		84.5	70	130			
Surr: 4-Bromofluorobenzene	85		100.0		84.7	70	130			
Surr: Dibromofluoromethane	95		100.0		95.2	70	130			
Surr: Toluene-d8	93		100.0		92.6	70	130			

Sample ID **1412702-002amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **TW-41** Batch ID: **R23319** RunNo: **23319**
Prep Date: Analysis Date: **12/22/2014** SeqNo: **689052** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	240	10	200.0	88.10	73.8	70	130	3.90	20	
Toluene	210	10	200.0	3.198	102	70	130	1.03	20	
Surr: 1,2-Dichloroethane-d4	84		100.0		83.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	88		100.0		88.5	70	130	0	0	
Surr: Dibromofluoromethane	95		100.0		94.9	70	130	0	0	
Surr: Toluene-d8	95		100.0		94.5	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R23334**	RunNo: **23334**
Prep Date:	Analysis Date: **12/23/2014**	SeqNo: **689619** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.9		10.00		88.7	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		89.6	70	130			
Surr: Dibromofluoromethane	8.2		10.00		82.0	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

Sample ID **100nglcs,200annex**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R23334**	RunNo: **23334**
Prep Date:	Analysis Date: **12/23/2014**	SeqNo: **689620** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	16	1.0	20.00	0	80.6	70	130			
Toluene	19	1.0	20.00	0	96.5	70	130			
Surr: 1,2-Dichloroethane-d4	8.5		10.00		85.4	70	130			
Surr: 4-Bromofluorobenzene	8.9		10.00		88.7	70	130			
Surr: Dibromofluoromethane	8.1		10.00		81.1	70	130			
Surr: Toluene-d8	9.4		10.00		94.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID	**MB-16881**	SampType:	**MBLK**		TestCode:	**EPA Method 7470: Mercury**					
Client ID:	**PBW**	Batch ID:	**16881**		RunNo:	**23232**					
Prep Date:	**12/17/2014**	Analysis Date:	**12/18/2014**		SeqNo:	**686450**	Units:	**mg/L**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND	0.00020								

Sample ID	**LCS-16881**	SampType:	**LCS**		TestCode:	**EPA Method 7470: Mercury**					
Client ID:	**LCSW**	Batch ID:	**16881**		RunNo:	**23232**					
Prep Date:	**12/17/2014**	Analysis Date:	**12/18/2014**		SeqNo:	**686451**	Units:	**mg/L**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.0050	0.00020	0.005000	0	99.4	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R23222**	RunNo: **23222**
Prep Date:	Analysis Date: **12/18/2014**	SeqNo: **686124** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R23222**	RunNo: **23222**
Prep Date:	Analysis Date: **12/18/2014**	SeqNo: **686125** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	101	80	120			
Magnesium	49	1.0	50.00	0	98.4	80	120			
Potassium	48	1.0	50.00	0	96.0	80	120			
Sodium	48	1.0	50.00	0	95.7	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID	**MB-16885**	SampType:	**MBLK**	TestCode:	**EPA 6010B: Total Recoverable Metals**
Client ID:	**PBW**	Batch ID:	**16885**	RunNo:	**23222**
Prep Date:	**12/17/2014**	Analysis Date:	**12/18/2014**	SeqNo:	**686097** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID	**LCS-16885**	SampType:	**LCS**	TestCode:	**EPA 6010B: Total Recoverable Metals**
Client ID:	**LCSW**	Batch ID:	**16885**	RunNo:	**23222**
Prep Date:	**12/17/2014**	Analysis Date:	**12/18/2014**	SeqNo:	**686098** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.50	0.020	0.5000	0	99.7	80	120			
Barium	0.47	0.020	0.5000	0	94.2	80	120			
Cadmium	0.47	0.0020	0.5000	0	94.6	80	120			
Chromium	0.47	0.0060	0.5000	0	93.6	80	120			
Lead	0.46	0.0050	0.5000	0	92.6	80	120			
Selenium	0.47	0.050	0.5000	0	94.0	80	120			
Silver	0.10	0.0050	0.1000	0	104	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1412702**
31-Dec-14

Client: Animas Environmental
Project: Former Thriftway Refinery #810

Sample ID **MB-16897**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**			
Client ID: **PBW**	Batch ID: **16897**	RunNo: **23260**			
Prep Date: **12/18/2014**	Analysis Date: **12/19/2014**	SeqNo: **687303**	Units: **mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-16897**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**			
Client ID: **LCSW**	Batch ID: **16897**	RunNo: **23260**			
Prep Date: **12/18/2014**	Analysis Date: **12/19/2014**	SeqNo: **687304**	Units: **mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1412702 RcptNo: 1

Received by/date: AT 12/16/14

Logged By: Anne Thorne 12/16/2014 8:15:00 AM Anne Thorne

Completed By: Anne Thorne 12/16/2014 Anne Thorne

Reviewed By: 12/16/14

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: 6
(<2 or >12 unless noted)
Adjusted? ✓
Checked by: AT 12/16/14

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

X Standard ☐ Rush

Mailing Address: 604 W Pinon St
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: beverett@animasenvironmental.com

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Project Name: Former Thriftway Refinery #810

Project #: AES 050204

Project Manager: B. Everett

Sampler: M. Beauparlant

On Ice: X Yes ☐ No

Sample Temperature: 4.0

HEAL No. 1412702

Analysis Request

Date	Time	Matrix	Sample Request ID AT 12/16/14	Container Type and #	Preservative Type	HEAL No.	8015 TPH GRO and DRO	8260 VOCs see below	8270 SVOC see below	RCRA 8 Metals	Dissolved Metals(Ca, Mg, K, Na)6010	300.0 Bromide, Chloride, Fluoride, Sulfate	300.0 Chloride and Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1						Air Bubbles (Y or N)
		Water	~~TW-32~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
		Water	~~TW-33~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
		Water	~~TW-36~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
12-10-14	15:25	Water	TW-37	3-40mL VOA/1-250mL Amber/ 1-1L Amber/1-500 mL Plastic	3-HCL/ Non/Non/Non		X	X	X				X		X							
		Water	~~TW-38~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
12-11-14	10:55	Water	TW-39	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-001	X	X	X													
		Water	~~TW-40~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		X	X	X													
12-11-14	11:27	Water	TW-41	3-40mL VoA/1-250mL Amber/ 2-500mL & 1-125mL Plastic/ 1-1L Amber	3-HCl/Non/2-HNO3 & 1-Non/Non	-002	X	X	X	X	X	X		X	X	X							
12-11-14	11:52	Water	TW-42	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-003	X	X	X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/15/14	1618	Mariah Beauparlant	Christy Walters	12/15/14	1618
12/15/14	1800	Christy Walters	[illegible]	12/16/14	0815

Remarks: Run TPH 8015 prior to analyzing for 8260 and 8270. Run the full VOC spectrum only in the event the reported TPH-GRO is greater than 80 mg/L, if GRO is less than 80 mg/L run BTEX/total napthalenes and MTBE. SVOCs per EPA Method 8270D will be run if TPH-DRO value is greater than 200 mg/L. Direct Bill to BioTech. Per Andy 8015 GRO-DRO $60, discounted price for TDS.

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

X Standard ☐ Rush

Project Name: Former Thriftway Refinery #810

Project #: AES 050204

Project Manager: B. Everett

Sampler: M. Beauparlant

On Ice: X Yes ☐ No

Sample Temperature: 1.0

Mailing Address: 604 W Pinon St, Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: beverett@animasenvironmental.com

QA/QC Package: X Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other ____

☐ EDD (Type) ____

Analysis Request

Date	Time	Matrix	Sample Request ID ATI2/16/14	Container Type and #	Preservative Type	HEAL No. 1412702	8015 TPH GRO and DRO	8260 VOCs see below	8270 SVOC see below	RCRA 8 Metals	Dissolved Metals(Ca, Mg, K, Na)6010	300.0 Bromide, Chloride, Fluoride, Sulfate	300.0 Chloride and Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1					Air Bubbles (Y or N)
12-11-14	12:15	Water	TW-43	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-004	X	X	X												
		Water	~~TW-44~~	~~3-40mL VOA/ 1-1L Amber/1-250mL Amber~~	~~3-HCL/ Non/Non~~		~~X~~	~~X~~	~~X~~												
12-11-14	13:50	Water	TW-45	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-005	X	X	X												
12-11-14	14:05	Water	TW-46	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-006	X	X	X												
12-11-14	14:32	Water	TW-47	N/A 3-40mL VOA/1-250mL Amber/ 1-1L Amber/1-500 mL Plastic	3-HCL/ Non/Non/Non	-007	X	X	X				X		X						
12-12-14	11:14	Water	TW-48	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-008	X	X	X												
12-12-14	12:20	Water	TW-49	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non	-009	X	X	X												
—		~~Water~~	~~TW-50~~	3-40mL VOA/ 1-1L Amber/1-250mL Amber	3-HCL/ Non/Non		~~X~~	~~X~~	~~X~~												
12-12-14	12:45	Water	TW-51	3-40mL VOA/1-250mL Amber/ 1-1L Amber/1-500 mL Plastic	3-HCL/ Non/Non/Non	-010	X	X	X				X		X						
12-12-14	13:03	Water	TW-52	3-40mL VOA/1-250mL Amber/ 1-1L Amber/1-500 mL Plastic	3-HCL/ Non/Non/Non	-011	X	X	X				X		X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/15/14	1618	[signature]	[signature]	12/15/14	1618
12/15/14	1800	[signature]	[signature]	12/16/14	0815

Remarks: Run TPH 8015 prior to analyzing for 8260 and 8270. Run the full VOC spectrum only in the event the reported TPH-GRO is greater than 80 mg/L, if GRO is less than 80 mg/L run BTEX/total napthalenes and MTBE. SVOCs per EPA Method 8270D will be run if TPH-DRO value is greater than 200 mg/L. Direct Bill to BioTech. Per Andy 8015 GRO-DRO $60, discounted price for TDS.

Client: Animas Environmental Services

Mailing Address: 604 W Pinon St
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: beverett@animasenvironmental.com

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

X Standard ☐ Rush _____

Project Name: Former Thriftway Refinery #810

Project #: AES 050204

Project Manager: B. Everett

Sampler: M. Beauparlant

On Ice: X Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1412702	8015 TPH GRO and DRO	8260 VOCs see below	8270 SVOC see below	RCRA 8 Metals	Dissolved Metals(Ca, Mg, K, Na)6010	300.0 Bromide, Chloride, Fluoride, Sulfate	300.0 Chloride and Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1						Air Bubbles (Y or N)
12-12-14	13:40	Water	TW-53	3-40mL VoA/1-250mL Amber/2-500mL & 1-125mL Plastic/1-1L Amber	3-HCl/Non/2-HNO3 & 1-Non/Non	-012	X	X	X	X	X	X		X	X	X						
12-12-14	14:00	Water	TW-54	3-40mL VoA/1-250mL Amber/2-500mL & 1-125mL Plastic/1-1L Amber	3-HCl/Non/2-HNO3 & 1-Non/Non	-013	X	X	X	X	X	X		X	X	X						
~~12-12-14~~	~~11:45~~	~~Water~~	~~MW-6~~	3-40mL VoA/1-250mL Amber/2-500mL & 1-125mL Plastic/1-1L Amber	3-HCl/Non/2-HNO3 & 1-Non/Non		X	X	X	X	X	X		X	X	X						
12-12-14	11:47	Water	MW-7	3-40mL VOA/1-1L Amber/1-250mL Amber	3-HCL/Non/Non	-014	X	X	X													
12-11-14	15:20	Water	MW-20	3-40mL VOA/1-250mL Amber/1-1L Amber/1-500 mL Plastic	3-HCL/Non/Non/Non	-015	X	X	X				X		X							
12-11-14	14:55	Water	MW-21	3-40mL VOA/1-250mL Amber/1-1L Amber/1-500 mL Plastic	3-HCL/Non/Non/Non	-016	X	X	X				X		X							
			Trip Blanks	2-40mL VOA	2-HCL	-017		TR														

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/15/14	1618	[signature]	[signature]	12/15/14	1618
12/15/14	1800	[signature]	[signature]	12/16/14	0815

Remarks: Run TPH 8015 prior to analyzing for 8260 and 8270. Run the full VOC spectrum only in the event the reported TPH-GRO is greater than 80 mg/L, if GRO is less than 80 mg/L run BTEX/total napthalenes and MTBE. SVOCs per EPA Method 8270D will be run if TPH-DRO value is greater than 200 mg/L. Direct Bill to BioTech. Per Andy 8015 GRO-DRO $60, discounted price for TDS.

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